DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS MISSION SUPPORT GROUP (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

ENTERED

FEB 2 4 2012

Colonel David C. Piech
Commander
110 E Sextant Avenue Suite 1098
Cannon AFB NM 88103

Ms. Lane Andress
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East Bldg 1
Santa Fe NM 87505-6063

Dear Ms. Andress

Attached is the *Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico, December 2011.* If you have any questions regarding this submittal, please contact Mr. Ronald Lancaster, Chief, Asset Management Flight at (575) 784-1146 or Mr. Matthew Higginbotham, Restoration Program Manager at (575) 784-1092.

Sincerely

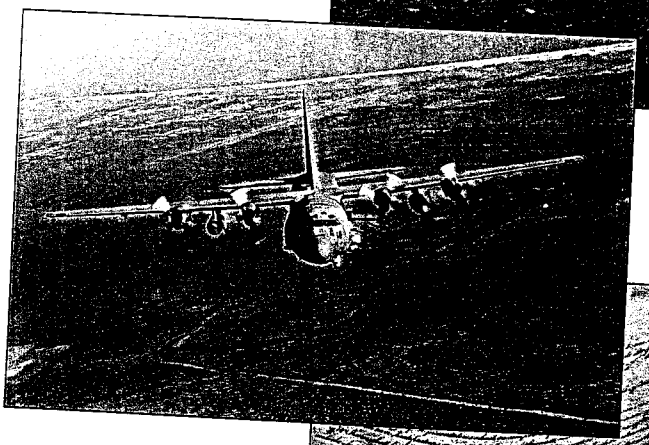
DAVID C. PIECH, Colonel, USAF

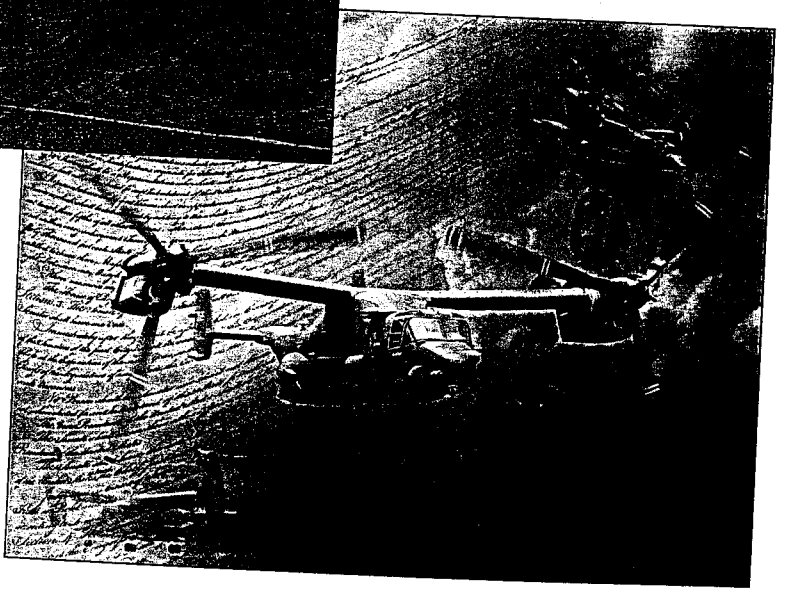
Attachment:
Annual Groundwater Monitoring Report

cc:
Environmental Protection Agency, Region VI, Ms. Wendy Jacques w/o Attachment

ANNUAL GROUND WATER MONITORING REPORT DECEMBER 2011

Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico





Air Force Special Operations Command

27th Special Operations Wing

U.S. Army Corps of Engineers
Omaha District

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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January 11, 2011

Mr. Matthew Higginbotham
ERP Manager
27 SOCES/CEAN
506 N DL Ingram Blvd
Cannon AFB, NM 88103-5003

RE: **December 2011 Annual Ground Water Monitoring Report**
Melrose Air Force Range, New Mexico
USACE Contract No.: W9128F-10-D-0091, Task Order 006

Dear Mr. Higginbotham,

Enclosed for your review is the *December 2011 Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties, New Mexico.*

To ensure a timely response and to simplify the review process for the New Mexico Environment Department (NMED), we have considered recent commentary contained in Notice of Disapprovals issued by NMED on March 11, and August 19, 2011 for the *December 2010 Annual Ground Water Monitoring Report, Melrose Air Force Range, Roosevelt and Curry Counties,* and have incorporated results of these findings into this report where applicable.

We appreciate the opportunity to work with Cannon Air Force Base and USACE to provide service to Melrose Air Force Range. If you have any questions or need further information, please call me at (850) 613-6800.

Sincerely,
Trinity Analysis & Development Corp.

Richard L. Burdine, PG
Senior Vice President

Attachment

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DECEMBER 2011
ANNUAL GROUND WATER MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Cannon Air Force Base
Air Force Special Operations Command (AFSOC)
27th SOCES/CEANR
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Prepared By:
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Under Contract To:
United States Army Corps of Engineers (USACE)
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Contract Number:
W9128F-10-D-0091, Task Order 0006

January 2012

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CERTIFICATION PAGE

DECEMBER 2011
ANNUAL GROUND WATER
MONITORING REPORT
MELROSE AIR FORCE RANGE
ROOSEVELT AND CURRY COUNTIES, NEW MEXICO

Prepared For:
Air Force Special Operations Command
And
27th Special Operations Wing

Prepared By:
Trinity Analysis & Development Corp.
1002 N. Eglin Parkway
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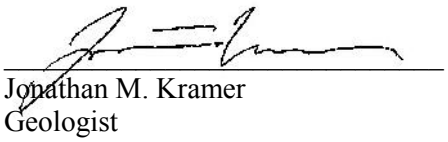
(850) 613-6800

Under Contract To:
United States Army Corps of Engineers (USACE)
Omaha District

I hereby submit that this Annual Ground Water Monitoring Report, December 2011, for the Melrose Air Force Range was prepared by me.



1-11-2012

Jonathan M. Kramer
Geologist
Trinity Analysis & Development Corp.

Date

I hereby submit the Annual Ground Water Monitoring Report, December 2011, for the Melrose Air Force Range was prepared under my supervision and review. To the best of my knowledge, all of the work performed for this report is in accordance with applicable State and federal regulations and accepted professional practices.

1-11-2012

Richard L. Burdine, P.G.
Senior Vice President
Trinity Analysis & Development Corp.

Date

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LIST OF ABBREVIATIONS AND ACRONYMS

°C	Celsius
°F	Fahrenheit
Accutest	Accutest Laboratories, Tampa, Florida
AFB	Air Force Base
AFR	Air Force Range
AFSOC	Air Force Special Operations Command
amsl	above mean sea level
AOC	Area of Concern
bls	below land surface
CCB	continuing calibration blank
CEA	Asset Management Flight
CEC	cation exchange capacity
COCs	Chain-of-custodies
DO	dissolved oxygen
DoD	Department of Defense
DQOs	data quality objectives
ECO	Eco-logical Environmental Services, Inc.
eDATApro	Environmental Data Professional, LLC
ELAP	Environmental Laboratory Accreditation Program
ERP	Environmental Restoration Program
ft/ft	feet per foot
ft/yr	feet per year
GCAL	Gulf Coast Analytical Laboratories, Inc.
gpm	gallon per minute
GWQB	Groundwater Quality Bureau
ICB	Initial calibration blank
IDW	Investigation-derived waste
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MB	Method Blank.
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ML	fine sandy silt
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NELAC	National Environmental Laboratory Accreditation Conference
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
ORP	oxidation reduction potential

psi	pounds per square inch
PVC	polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
RPD	Relative Percent Difference
RSL	Regional Screening Level
SC	clayey sand
SC-CL	fine sandy clay
SDG	Sample delivery group
SM	silty fine sand
SOW	Special Operations Wing
SR	State Road
SSL	Soil screening level
SVOC	semivolatile organic compounds
SWMUs	Solid Waste Management Units
TD	Total depth
TDS	Total Dissolved Solids
TRINITY	Trinity Analysis & Development Corp.
µg/L	micrograms per liter
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UXO	unexploded ordnance
VOC	volatile organic compounds
WQCC	Water Quality Control Commission

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1.0 INTRODUCTION

This Annual Ground Water Monitoring Report for the Melrose Air Force Range (AFR) has been prepared by Trinity Analysis & Development Corp. (TRINITY) on behalf of the Cannon Air Force Base (AFB) 27th Special Operations Wing (SOW) and Air Force Special Operations Command (AFSOC). TRINITY performed this work under contract to the US Army Corps of Engineers (USACE), Omaha District, Contract W9128F-10-D-0091, Task Order 006. The document was prepared for submission to the New Mexico Environment Department (NMED).

In 1975, the Department of Defense (DoD) established the Environmental Restoration Program (ERP) to provide guidance and funding for the investigation and remediation of hazardous waste sites caused by historical disposal activities at military installations that may have contaminated soil, ground water, and/or surface water. The Asset Management Flight (CEA) staff at the Cannon AFB 27th SOW is administratively responsible for oversight of ERP sites at Melrose AFR.

In accordance with a Resource Conservation and Recovery Act (RCRA) permit issued to Cannon AFB on December 30, 1994 an investigation of potential impacts to soil and ground water that may have resulted from seven Solid Waste Management Units (SWMUs) was conducted. In accordance with the RCRA Permit a *Phase I RCRA Facility Investigation for Melrose Air Force Range* (Foster Wheeler, 1996) and a *RCRA Facility Investigation Report Addendum* (Foster Wheeler, 2003) were completed and the reports submitted to NMED. NMED reviewed the Phase I RCRA Facility Investigation (RFI) and the RFI Addendum and provided a response dated February 1, 2006 which requested additional field investigation activities at Melrose AFR.

On May 9, 2007 the Department of the Air Force requested a deferral of a RFI Work Plan for the additional field investigation requested by NMED for Melrose AFR. The deferral was based on the fact that the entire facility is an "*active bombing or test range*." On June 19, 2007 NMED approved deferment of a revised RFI work plan with the stipulation that the purpose and scope of the work plan would be modified to indicate that continued ground water monitoring and reporting would continue and is *"... an interim measure, until the SWMUs are fully investigated....."*

Based on NMED comments (February 11, 2010) on the *Draft Work Plan for Annual Groundwater Monitoring, Melrose Air Force Range* (Tidewater, 2009), two separate monitoring well networks are sampled: the Semiannual SWMU Ground Water Quality Network which currently consists of ten wells, and the Annual Ground Water Quality Network which currently consists of 14 wells.

In the *Final Report, Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico* (Tidewater, 2009) the consultant proposed a new background monitoring well upgradient of the SWMUs, adjacent to MWQ-8, which was dry. NMED reviewed the report and responded on October 27, 2009 approving the installation of a new background monitoring well and suggested that the well be installed adjacent to MWQ-10 (NMED, 2009). However, MWQ-10 is located on a portion of Melrose AFR (the Mesa) where ground water is not mixing with the underlying Chinle Formation. Based on ground water geochemistry data and the ground water flow direction, ground water collected from MWQ-8 is upgradient of the SWMUs and the Impact Area and is located on a portion of Melrose AFR that would provide a more representative ground water quality sample for the Impact Area.

TRINITY submitted an updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) in which a recommendation was made to consider utilizing existing cattle stock supply well (MWQ-23) as a potential background well. Implementation of this well as a background data source would preclude the additional expenditure of installing a new monitoring well, and based on site-specific geology and site configuration MWQ-23, which is located approximately 3,100 feet west of MWQ-8, appears to be able to provide adequate background data for the local flow system in the Impact Area. MWQ-23 was sampled twice during this reporting period. A more detailed discussion of the site specific geology and hydrogeology of Melrose AFR is provided in Section 4.0 below.

Monitoring wells associated with the Semiannual SWMU Ground Water Quality Network are sampled on a semiannual basis and include:

- One background ground water monitoring well (MWQ-23)

- Four ground water monitoring wells at SWMU 114;
- Four ground water monitoring wells at SWMU 130;
- One ground water monitoring well at SWMU 131.

Wells associated with the Annual Ground Water Quality Network are sampled on an annual basis and include:

- Fourteen wells, consisting of monitoring wells and active/inactive supply wells.

A more detailed discussion of the site sampling plan for the Semiannual and Annual Ground Water Quality Network is provided in Sections 6.1.1 and 6.1.2, respectively.

The water quality sampling and reporting is being performed to monitor for the presence of potential contaminants, gauge the effectiveness of the site's monitoring system, provide the foundation for correction or improvement to the monitoring plan as necessary, and to document the site's influence on the area's ground water quality, if any.

All field activities presented in this document were completed in general accordance with the data quality objectives (DQOs) presented in the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011).

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2.0 ANNUAL REPORT CONTENTS

Annual ground water monitoring reports for SWMUs at Melrose AFR are required by 20.9.9.13 New Mexico Administrative Code (NMAC). In accordance with NMED Solid Waste regulations, annual ground water monitoring reports should include:

- Site and background description;
- A description of the hydrogeologic setting;
- A description of the monitoring well network including a well construction summary table and site map(s) of well locations;
- Summary of ground water elevations including flow maps of the current sampling event and at least two previous sampling events;
- An interpretation of the ground water gradient and flow velocity;
- Description of ground water sampling activities, including summary tables and trend analysis of water quality data;
- An evaluation of the analytical results;
- A description of the suitability of the data (i.e. holding times, blanks, duplicates, etc.);
- Any necessary corrective actions, conclusions and recommendations.

This report is organized as following:

- Section 1: Introduction;
- Section 2: List of Annual Report contents;
- Section 3: Site description and background including a brief summary of the SWMUs at Melrose AFR;
- Section 4: Summarizes the geology and hydrogeology of Melrose AFR and vicinity;
- Section 5: Describes the requirements of the monitoring plan as it relates to semiannual and annual sampling conducted at Melrose AFR;
- Section 6: Provides a description of field activities conducted during the most recent year of sampling (2011);

- Section 7: Evaluates the analytical data, focusing on data from the most recent year of sampling (2011). Compares data to background/ambient conditions. Evaluates possible exceedances of regulatory standards and assesses the quality of the data;
- Section 8: Provides conclusions and recommendations.

3.0 SITE DESCRPTION AND BACKGROUND

3.1 Location/Access

The Melrose AFR is a bombing and air-to-ground gunnery range under management of Cannon AFB within AFSOC. The Melrose AFR is situated approximately eight miles southwest of the village of Melrose, and located predominately in Roosevelt County with a small parcel in Curry County, New Mexico (Figures 1 and 2). Access to the range is achieved by traveling south from Melrose on New Mexico State Road (SR) 267 for approximately 9.3 miles, then west on Sundale Valley Road for approximately seven miles to the security gate.

During World War II, the area was used by the United States (US) Army Air Corps (predecessor to the US Air Force) for training. It has been continuously used by the US Air Force since World War II. In 1952, the Air Force leased 7,771 acres of grassland for use as a bombing and air-to-ground gunnery range by the Tactical Air Command. Since 1952, the range has been expanded several times including land purchases and leases and currently comprises 87,925 acres. Current acreage includes Cannon AFB owned, public domain, and restricted easement land (Foster Wheeler, 2003).

The Impact Area of the Range is located northeast of the Mesa and consists of grasslands with a grid of access roads and bombing targets. The Impact Area is delineated by a historical boundary that previously delineated the extent of the entire Range (Figure 2). In 1990-91, the boundary of the Range was expanded through the acquisition of agricultural and range land parcels on all sides. These parcels (leased lands) are currently part of Range property but are leased back to the prior owners for continued use as agricultural and range land. Leaseholders use the unconfined aquifer for irrigation and livestock watering.

Live high-explosives-filled ordnance was used on the range prior to 1969. Since then, practice bombs and inert full-scale bombs have been used at the range. Practice bombs and inert bombs are known to contain only small explosive or pyrotechnic spotting charges. Additionally, live gun ammunition has been used continuously on the range for target practice.

Over the years, portions of the Melrose AFR have been used to dispose of a variety of military

and industrial waste from Melrose AFR and Cannon AFB. Wastes have included: unexploded ordnance (UXO), exploded ordnance, scrap metal, paints, solvents, pesticides, herbicides, putrescible waste, etc. (Foster Wheeler, 1996; Foster Wheeler, 2003). Currently, the Melrose AFR permit includes seven SWMUs located within its boundary. Three SWMUs have permanent monitoring wells in place, two SWMUs are located within the Impact Area and as such, do not have permanent wells in place, and the wells associated with remaining two SWMUs have been abandoned because they were dry (Figure 2). The SWMUs are described as follows:

SWMU 114 – Expended Ordnance and Industrial Waste Burial Site (Motor Pool Trenches)
SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)
SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)
SWMU 130 – World War II Cantonment Disposal Site (formerly Area of Concern (AOC) 1)
SWMU 131 – Domestic Waste Burial Site (East of Fire Station; formerly AOC 2)
SWMU 132 – Disposal / Burn Site (North Helicopter Pad; formerly AOC 3)
SWMU 133 – Northwest Munitions Disposal Site (Northwest Corner of Impact Area; formerly AOC 4)

3.2 SWMU Descriptions & History

3.2.1 SWMU 114 – Expended Ordnance and Industrial Waste Burial Site

SWMU 114 is located in the southeast quarter of the southwest quarter of Section 15 and the northeast quarter of the northwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (Figure 3). The site and surrounding area are flat with sparse desert scrub vegetation consisting of prairie grass and cactus.

The military used a series of eight unlined burial trenches at SWMU 114 to dispose of a variety of military and industrial waste from Melrose AFR and Cannon AFB. Trenches were approximately 20 to 40 feet in width, 100 to 200 feet in length and up to 40 feet in depth (Foster Wheeler, 1996; Foster Wheeler, 2003). One trench approximately 15 feet deep and 400 feet

long is currently open but has not been used.

Exact dates and types of waste disposed at SWMU 114 are unknown. It is known, however, that between 1952 and 1962 drummed liquids were poured into the trenches and burned. Full drums of liquid, including possible unusable fuels, paints, sludge, and solvents may have also been placed in the trenches. For an unknown period of time, the military also disposed of an estimated 12,000 to 15,000 pounds per month of scrap metal from practice bombs and munitions in the trenches at SWMU 114 (Foster Wheeler, 1996; Foster Wheeler, 2003). According to the 1996 *Phase I RCRA Facility Investigation for Melrose Air Force Range* (Foster Wheeler, 1996) and the 2003 *RCRA Facility Investigation Report Addendum* (Foster Wheeler, 2003) the trenches at SWMU 114 were cleared of ordnance and have been backfilled and closed. Ground water at this location is present approximately 150 feet below land surface (bls).

Four monitoring wells were installed as part of the Phase I RFI. No organic compounds were detected above ground water standards during the Phase I RFI. Elevated metals concentrations were attributed to high turbidity and natural conditions. Elevated anion concentrations were attributed to natural conditions. Migration of metals from the disposal site to ground water was determined to be unlikely due to the high cation exchange capacity (CEC) of the surface and near surface soil and the alkaline nature of the formation. It has been determined that ground water at SWMU 114 has not impacted by disposal activities at the site (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.2 SWMU 115 – Explosives-Contaminated Burial Site (Arroyo Burial Site)

SWMU 115 is located in the northeast quarter of the northeast quarter of Section 33, Township 1 North, Range 30 East in Roosevelt County, New Mexico (Figure 3). The site lies within a small arroyo located in the south-central portion of Melrose AFR. SWMU 115 was used for the disposal and burial of UXO in 1989. UXO and other exploded ordnance were collected from the surrounding areas, pushed into the arroyo, and covered with a thin layer of soil. Storm water flows intermittently down the arroyo during heavy rains.

The ground surface at the site is relatively free of debris. The disposal area was 600 feet long, 15 to 20 feet wide, and 15 to 20 feet deep. The contents of SWMU 115 are believed to consist

entirely of UXO and other exploded ordnance, including 750-pound and 2,000-pound bombs covered with a thin layer of soil. Ground water is present approximately 25 to 30 feet below land surface. During the Phase I RFI, ground water samples were collected utilizing direct-push technologies. No organics or explosives related compounds were detected in ground water. Elevated metals concentrations were attributed to elevated turbidity in the samples. It has been determined that ground water at SWMU 115 has not been impacted by disposal activities at the site (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.3 SWMU 117 – Domestic Waste Burial Site (Southeast of Main Building)

SWMU 117 is located in the northeast quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (Figure 3). This site is located southeast of the main control building at the Melrose AFR. The area is within a slight depression that receives storm water runoff from the surrounding area.

This SWMU was formerly used to dispose of domestic waste from the control building, including such items as food waste and common household items. Other items possibly disposed in this area could include used oil and grease, solvents, batteries, pesticides, or herbicides (Foster Wheeler, 1996; Foster Wheeler, 2003). Disposal at the site appears to have begun circa 1973 as evident in aerial photographs. The area used for disposal at SWMU 117 was approximately 300 feet by 300 feet or approximately two acres. It is a closed site and currently covered by native grasses.

Ground water was not encountered at a maximum depth of 182 feet during the Phase I RFI. The four borings were backfilled to the top of a potential confining layer (caliche) at approximately 41 feet bls with wells installed to intercept potential seasonal or transient ground water. These four wells have been historically dry and have therefore been abandoned at NMED's request. Based on the lack of ground water and the lack of significant contamination in soil samples it was concluded that contamination of ground water at SWMU 117 was unlikely (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.4 SWMU 130 – World War II Cantonment Disposal Site

SWMU 130 is located in the northeast quarter of Section 17, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (Figure 3). SWMU 130 was formerly referred to as AOC 1. The military used SWMU 130 as a sanitary landfill during World War II for a cantonment area (temporary housing area for troops). No documentation exists for specific wastes disposed at the site; however, it is possible that the waste stream included all items from domestic wastes to motor pool waste, UXO, munitions, batteries, oil and fuels, etc. The exact location of the disposal site is unknown; however approximately 50 acres were investigated during the Phase I RFI. Ground water is present approximately 140 to 145 feet bls at SWMU 130. Four monitoring wells were installed as part of the Phase I RFI. No organic compounds were detected and only one metal (thallium) was detected above applicable ground water standards. The elevated thallium concentration was attributed to natural conditions (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.5 SWMU 131 – Domestic Waste Burial Site (East of Fire Station)

SWMU 131 is located in the northwest quarter of the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (Figure 3). SWMU 131 was formerly referred to as AOC 2. This site is east of the Melrose AFR Fire Station and consists of approximately 0.5 acres. SWMU 131 was used for disposal and/or burning of wastes; however, the type and volume of wastes is unknown (Foster Wheeler 2003). The suspected waste stream possibly included spent fuels, motor oil, batteries, paints, pesticides, and metals in addition to domestic waste. Waste first appears to have been disposed of at SWMU 131 circa 1966.

Two monitoring wells, a shallow and deep were installed in the investigative borings to depths of 50 and 185 feet bls, respectively. The shallow well was installed above a confining layer (caliche) to intercept seasonal or transient ground water. The shallow well has been historically dry and has therefore been abandoned at NMED's request. Ground water is present in the deep well at approximately 105 feet bls.

No organic analytes were detected in the ground water during the Phase I RFI. Selenium and thallium were reported at concentrations above applicable ground water standards; however, due

to a lack of selenium or thallium in overlying soil samples it was determined that ground water had not been impacted by SWMU 131 (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.6 SWMU 132 – Disposal / Burn Site (North Helicopter Pad)

SWMU 132 is located in the southwest quarter of Section 22, Township 1 North, Range 30 East, in Roosevelt County, New Mexico (Figure 3). SWMU 132 was formerly referred to as AOC 3. This site is less than 0.5 acres located north of the former helicopter pad at the Melrose AFR operations area. SWMU 132 was reportedly used for burning and/or disposal of unknown wastes types and quantities. Possible wastes included domestic waste, motor oil, metals, and residue from burning. Waste first appears to have been disposed of at SWMU 132 circa 1973.

During the Phase I RFI no ground water was encountered during drilling to a total depth (TD) of 182 feet bls. The boring was backfilled to the top of a potential confining layer (caliche) at approximately 50 feet bls to intercept seasonal or transient ground water. Due to land-use (helicopter pad) the well was installed flush mount. The well was dry during the Phase I RFI (1996) and during the RFI Addendum (2003) and therefore could not be sampled. Based on the lack of ground water this well was abandoned at NMED's request. Due to the lack of ground water it was determined to not have been impacted by the presence of SWMU 132 (Foster Wheeler 1996; Foster Wheeler 2003).

3.2.7 SWMU 133 – Northwest Munitions Disposal Site (NW Corner of Impact Area)

SWMU 133 is located in the northwestern corner of the impact area. SWMU 133 was formerly referred to as AOC 4. This site is located in the east-central part of Section 17 with some overlap into Section 16, Township 1 North, Range 30 East in Roosevelt County, New Mexico (Figure 3). The site is flat with native scrub vegetation and areas free of vegetation. SWMU 133 was used from 1952 to 1960 for disposal of exploded ordnance and UXO.

Ground water was present approximately 112 to 127 feet bls. During the Phase I RFI, ground water samples were collected from three of four borings utilizing direct-push technologies. Water was not encountered in one of the borings. No organics were detected in ground water. Concentrations of several metals exceeded applicable ground water standards. A pattern of increased concentrations of five of the metals from west to east across the site might suggest

impacts from SWMU 133 or from naturally occurring lateral changes in bedrock (Foster Wheeler 1996; Foster Wheeler 2003). Permanent monitoring wells were not installed due to the location of SWMU 133 in an overflight approach route along the northern portion of the active Impact Area. In a letter to Cannon AFB dated June 19, 2007 NMED stated, that "…NMED will prepare a "corrective action-only" permit to be implemented once the range is closed, transferring, or transferred." (NMED, 2007). When the Range is deactivated additional assessment will likely be required.

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4.0 HYDROGEOLOGIC SETTING

4.1 Geology

The stratigraphic units of interest at Melrose AFR are the Chinle, Ogallala, and Blackwater Draw Formations. In eastern New Mexico, these units form the Southern High Plains Aquifer, which is part of a larger aquifer system extending from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South Dakota (Langman, 2004). The Chinle Formation (Triassic age) is the base of the unconfined Southern High Plains Aquifer and is composed of red shales with interbedded sands (redbeds) deposited by low-energy streams in floodplains and deltas. The top of the Chinle Formation is marked by an erosional unconformity with up to several hundred feet of relief (Lee Wan and Associates, Inc., 1990). The Ogallala Formation (Tertiary age) is the uppermost formation for the central and southern parts of Melrose AFR and it lies unconformably over the upper unit of the Chinle Formation. The Blackwater Draw Formation (Quaternary age) overlies the Ogallala Formation in the northern part of Melrose AFR (Figure 4).

In the vicinity of Melrose AFR, the Ogallala dips gently to the southeast; no faults or buried structural lineaments are known to exist in the area. The thickness of the Ogallala Formation may vary significantly over short north-south distances. The base of the High Plains Aquifer (Ogallala Formation) lies at approximately 200 feet bls in the northern portion of Melrose AFR (Hart, 1985). Drilling conducted as part of the Phase I RFI (Foster Wheeler, 1996) indicated that the depth of the Ogallala Formation along the northern margin of Melrose AFR exceeds 182 feet.

Typically, the erosional surface of the upper unit of the Chinle Formation forms an uneven contact with the Ogallala Formation and in many places is marked with gravel, cobble, or boulder deposits. The Tertiary aggradational stream deposits filled the valleys, uplands, and fluvial channels of the eroded Triassic deposits (Gustavson, 1996). Coarser materials were deposited in the channels and valleys with finer material between channels. The middle sections of the Ogallala are characterized by unconsolidated fluvial sands, silts, and clays in a fining-upwards sequence, with the upper portion consisting of eolian sands and silts deposited over the fluvial sediments and upland areas separating paleovalleys (Hart, 1985). The unconformity and variable deposition between the Chinle and Ogallala formations and within the High Plains

Aquifer have resulted in vertical and horizontal changes in the unit's porosity and permeability and produced a discontinuous aquifer within the Ogallala Formation.

Sediments encountered during drilling at Melrose AFR were predominately silts and very fine sand. Gravel, cobble, and boulder deposits normally associated with the base of the Ogallala formation and a fining up sequence above were not identified during drilling activities at Melrose AFR. The silts and very fine sand encountered during drilling is likely representative of the eolian sequence of the Ogallala Formation.

Except where strongly cemented by calcium carbonate (caliche), the near-surface sediments of the Ogallala Formation are loose and friable. Sediments encountered during drilling at Melrose AFR were predominantly silts and very loose sands and are most likely representative of the eolian sequence of the Ogallala Formation. Sediments below approximately 50 feet bls become increasingly indurated with depth, resulting in slow drilling rates and poor sample recovery. This high induration appears to have been misinterpreted as sandstone, siltstone, and claystone in areas of Melrose AFR.

Authigenic and allogenic clays are found as trace to abundant matrix minerals in the Ogallala (Lee Wan and Associates, Inc., 1990). As reported by Lee Wan and Associates, five zones have been distinguished within the Ogallala Formation of east-central New Mexico on the basis of clay minerals. The clay zones are characterized by moderate to high CEC values. The Ogallala Formation as a whole has a relatively high CEC value, which should inhibit the migration of metals in ionic form.

Caliche is a major feature of the Ogallala Formation, occurring in nearly continuous to discontinuous layers throughout. The uppermost caliche, termed the "climax caliche," crops out around playas and the bounding escarpments of the Ogallala Formation, and is locally termed "caprock." It is typically three to five feet thick. At Melrose AFR, this caprock forms a resistant layer on top of the Mesa. Caliches that occur lower in the Ogallala Formation are platy and harder. Caliche is likely to either be thin or absent below playas. A particularly thick layer of caliche occurs between approximately 45 and 55 bls at Melrose AFR.

4.2 Hydrogeology

Melrose AFR is located near the western margin of the Southern High Plains Aquifer of which the Ogallala Formation is the primary water bearing unit. The Southern High Plains Aquifer forms the primary aquifer for both potable and irrigation water in the vicinity of Melrose AFR and throughout the eastern New Mexico region. In addition, there are several localized shallow water-bearing zones across the region used for irrigation purposes. No deeper aquifers are known to be in use in the vicinity of Melrose AFR. However, ground water of poorer quality does occur in the Chinle Formation, which underlies the Ogallala. Regional well yields from the Southern High Plains Aquifer vary from less than one gallon per minute (gpm) in thin silts and sands to more than 1,600 gpm in thick sands and gravels (Lee Wan and Associates, Inc., 1990). Within New Mexico, ground water in the Southern High Plains Aquifer generally flows eastward (Hart, 1985), which is considered the overall direction of regional flow in the unconfined aquifer.

The Southern High Plains Aquifer was mapped by Hart as unsaturated or saturated only in isolated channels in the area occupied by the southern and western portions of Melrose AFR and as saturated in the northern portion (Hart, 1985). At Melrose AFR, the non-potable supply well produced 14 gpm at 35 pounds per square inch (psi) during a pump test in 1985 (William Matotan and Associates Inc., 1985). Static water levels have varied over the years in this well, ranging from 138 feet bls in 1978 (William Matotan and Associates 1985) to 96 feet bls in summer 1995 (Foster Wheeler, 1996). The supply well is located within approximately one mile of all the monitoring wells installed during the Phase I RFI (Foster Wheeler, 1996), but its terminus is approximately 20 feet deeper. Its high production rate and higher static water elevation as compared to other monitoring wells at the investigation sites indicates it was completed in a more permeable, and possibly, confined aquifer that differs substantially from the water-bearing zones accessed by the other monitoring wells (Foster Wheeler, 1996).

The ground water hydrology and water quality of the Southern High Plains aquifer at Melrose AFR was characterized by the United States Geological Survey (USGS), in cooperation with the US Air Force, based on data collected in 2002 and 2003 and discussed in *Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03* (Langman, 2004).

A 29-well monitoring network that included wells in the impact area and leased lands of Melrose AFR was investigated. Water level measurements and water quality data from the Southern High Plains Aquifer of the Ogallala Formation (28 wells) and deeper, confined aquifer of the Chinle Formation (one well) were analyzed. Information from previous investigations, including water level and water quality data collected statewide and dating from 1962, and results from the Phase I RFI (Foster Wheeler, 1996) and RFI Addendum (Foster Wheeler, 2003) were evaluated as part of the 2004 USGS study.

USGS monitoring data show that water levels in the Southern High Plains Aquifer at Melrose AFR declined between 1962 and 2003. At 13 wells monitored since 1962, water levels declined between one foot and 18 feet during varying periods of record. In wells installed above a localized confining unit (caliche), as part of the Phase I RFI, appear to never have contained ground water. Previous reports have indicated that these shallow wells have become dry due to declining water table (URS, 2009; Tidewater, Inc., 2010). However, during the Phase I RFI, minimal water was measured in the silt trap of several wells but never appeared to rise above the bottom of the screen. Recent inspection of these wells appears to indicate moist silt has accumulated in the silt traps likely the result of condensation in the well. These wells never appear to have contained ground water.

Using 1978 data, the regional ground water flow direction in the Southern High Plains Aquifer of the Ogallala Formation in the Melrose AFR is to the northeast with a hydraulic gradient of about 0.013 feet per foot (ft/ft), and inferred that the depth to ground water ranged from 40 to 120 feet bls from southwest to northeast across the active portion of the range (Hart, 1985). Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day and hydraulic gradients were between 0.007 and 0.014 ft/ft. Assuming an effective porosity of 25 percent, linear flow velocities at Melrose AFR appear to range from 0.01 to less than 5 feet per year (ft/yr) (Foster Wheeler, 1996). Depths to ground water measured during the Phase I RFI (Foster Wheeler, 1996) varied from an average of 45 feet bls at SWMU 115 in the central part of Melrose AFR to average depths ranging from 112.5 feet to more than 182 feet at all other sites. However, Phase I RFI data also indicate that as many as five separate and

possibly discontinuous water-bearing zones may be present at Melrose AFR, none of which may correlate with the Southern High Plains Aquifer discussed by Hart (1985). The median ground water surface and flow direction within the regional aquifer based on depth to water measurements in 2002 to 2003 is depicted on Figure 5 (Langman, 2004).

Recharge to the Southern High Plains Aquifer is primarily through precipitation. The recharge rate has been estimated to be very low (0.5 to 0.8 inch/year) and is much lower than the discharge rate (Kearney, 1987). Because of the high evapotranspiration rate and low precipitation, recharge can only occur during cool months, when precipitation my exceed evapotranspiration, or during heavy rainfall events in which the infiltration capacity of the soil is exceeded. When the infiltration capacity of the soil is exceeded, runoff flows to playas. In this instance, the presence of the water in the playas may allow deep percolation to the aquifer. The fact that percolation has occurred is indicated by the presence of clay deposits in playas and the likelihood that caliche is thin or absent directly below the playas. Caliche is soluble in acidic rainwater and over time the solution forms percolation pathways through sediments. Discharge from the Southern High Plains Aquifer occurs through well pumping and springs located along the eroded margins. No discharging springs are known to occur on or near Melrose AFR.

Water level contours for the unconfined Southern High Plains Aquifer indicate ground water flows predominantly to the northeast from the Mesa to the Portales Valley (Figure 5). The flow direction changes in the Portales Valley, indicating two flow systems are present, one local, and one regional. In the local flow system, ground water in the southwestern part of Melrose AFR flows northeast, while regional flow is to the east to southeast across the northern part of Melrose AFR. It appears that the direction of ground water flow reflects the contact between the Ogallala and Chinle formations, which determines ground water gradient and saturated thickness of the Southern High Plains Aquifer. The local flow-system gradient is about 1.3 percent, and the regional flowsystem gradient is about 0.1 percent. The saturated thickness of the aquifer increases as the local and regional flow systems merge.

Regional water quality in the Southern High Plains Aquifer is generally good, with total dissolved solids (TDS) ranging from 250 to 500 milligrams per liter (mg/L) (Gutentag, 1984)

and fluorides ranging from 2.2 to 2.7 mg/L (William Matotan and Associates Inc., 1985). Water quality data for the Melrose AFR supply well (screened in the Ogallala Formation) provided by Cannon AFB in September 1995 indicated dissolved solids at 555 mg/L, filterable residues at 461 mg/L, and fluoride at 2.1 mg/L.

Groundwater in the Chinle is of poorer quality than the Ogallala Aquifer and is generally characterized by high concentrations of TDS (<1,000 to 10,000 mg/L) and sodium (in some locales the sodium concentrations are high enough to make the ground water unusable for irrigation purposes). Uranium commonly occurs throughout the Dockum Group of which the Chinle Formation is a member and is the source for commonly elevated radium-226 and radium-228 levels in the ground water (Bradley & Sanjeev, 2003). Three monitoring wells at Melrose AFR are installed in the Chinle Formation and include MWQ-2, MWQ-20, and MWQ-22.

Results of water quality analysis for samples collected in 1995, 2000, and 2002-2003 indicate three areas or sources of different water types at Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). Ground water quality near the Mesa was similar to that of the regional flow system and to water from the southern part of Melrose AFR. Ion concentrations in ground water from the center of the impact area were similar to ground water from the underlying Chinle Formation, indicating likely connection with the deeper water-producing zone. Results of monitoring in 2004 showed that higher concentrations of dissolved solids and metals occur in the impact area; thereby confirming that ground water in the impact area is different from other ground water at Melrose AFR. No pesticides, explosives, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or organic halogens were found in the ground water samples from the 2002-2003 events (Langman, 2004). Perchlorate was detected at estimated concentrations in wells MWQ-14 (2.6 micrograms per liter (µg/L)) and MWQ-15 (20 µg/L). However, Langman (2004) attributed the perchlorate results to analytical method interference due to elevated chloride concentrations in these samples.

Ground water age, determined during the USGS study, indicates ground water is less than 55 years old across the range, with younger ground water occurring near the Mesa and ephemeral

drainages (less than 25 years) and older water toward the Portales Valley (25 to 55 years) (Langman, 2004). The Ogallala Formation is the primary source of water for domestic, municipal and irrigation uses in this region of New Mexico.

4.3 Topography

Melrose AFR is located in the Southern High Plains physiographic region and lies atop a large plateau known as the Llano Estacado (Hawley, 1976). The Llano Estacado is a nearly flat plain that slopes gently (typically 10 to 15 feet per mile) to the east and southeast from eastern New Mexico into western Texas. In eastern New Mexico, the Llano exceeds 4,000 feet above mean sea level (amsl), and elevations in the vicinity of Melrose AFR range from 4,200 to 4,650 feet amsl Figure 6. Streams in the region are ephemeral and the regional drainage pattern is poorly developed. The closest named drainages to Melrose AFR are Chapman Draw, approximately two miles west of Melrose AFR, and Cañada del Tule, about two miles southeast of the southeastern corner of Melrose AFR. Chapman Draw drains to the north, and Cañada del Tule drains to the east. The surface topography of Melrose AFR slopes to the northeast and overland flow and ephemeral drainage from the area of the sites is toward the northeast and not toward either named drainage.

The most prominent geomorphic features in the vicinity of Melrose AFR are two spurs of an escarpment known as the Mesa, which rise about 200 feet above the average elevation of the surrounding surface. The northern spur, referred to as the West Mesa, which runs near the western side of the active impact area, ends in a small butte near the center and overlooks much of the facility. Various observation and communication and control facilities associated with operations at Melrose AFR are located on the butte. The eastward-trending southern spur, which bounds the southern side of the active impact area, is referred to as the South Mesa.

Melrose AFR topography (excluding the Mesa) is open and mostly flat, gently sloping to the northeast. The Mesa dominates the southwest part of Melrose AFR. It is a topographic high and is part of the Western Caprock Escarpment that defines the western boundary of the Southern High Plains aquifer. The Mesa has a plateau area of about 7,775 acres ranging in altitude from 4,600 to 4,700 feet amsl and forms the surface basin boundary between the Pecos River Basin to

the west and the Portales Valley to the east. The Impact Area gently slopes from southwest to northeast, away from the Mesa.

4.4 Soils

According to the soil survey of Curry and Roosevelt County (USDA 2010), soil types in the Melrose AFR area include loams, fine sandy loams, and loamy fine sands of the Amarillo-Clovis association and calcareous soils of the Potter-Mansker association. These soils would be classified as fine sandy silt (ML), silty fine sand (SM), clayey sand (SC), and clayey sand to silty, fine sandy clay (SC-CL) under the Unified Soil Classification System, and as aridisols (calciorthids) under the US Department of Agriculture-Soil Conservation Service Comprehensive Soil Classification System.

4.5 Surface Water Drainage Systems

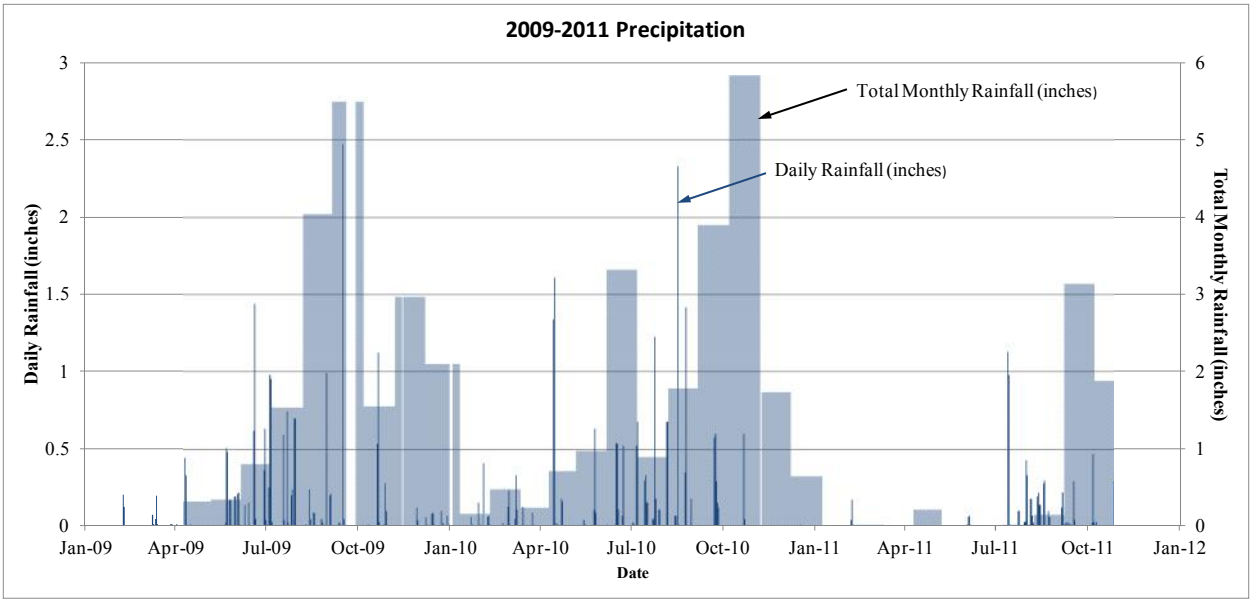
Relict sand dunes and minor playas are located to the north of Melrose AFR, along the southern side of the US Highway 84, and larger playas with surface areas greater than 1/3 square mile are present one to two miles north of Melrose AFR. During periods of rainfall, the playas collect surface runoff to form ephemeral playa lakes.

An arroyo drainage rises in the southwest corner of Melrose AFR, at the intersection of the West and South mesas, and extends about four miles to the northeast across the active impact area before its surface expression fades out. Other than the arroyo, no streams or integrated drainage pattern exists on or near Melrose AFR. An impoundment formed by an earthen dam about a mile upstream of the drainage's terminus intermittently stores surface water during periods when precipitation is sufficient to generate flow. During most of the year both the arroyo and impoundment are dry. No other surface water bodies are located within Melrose AFR except minor ephemeral channels including the Chapman Draw and the Cañada del Tule, which originate at the Mesa.

4.6 Climate

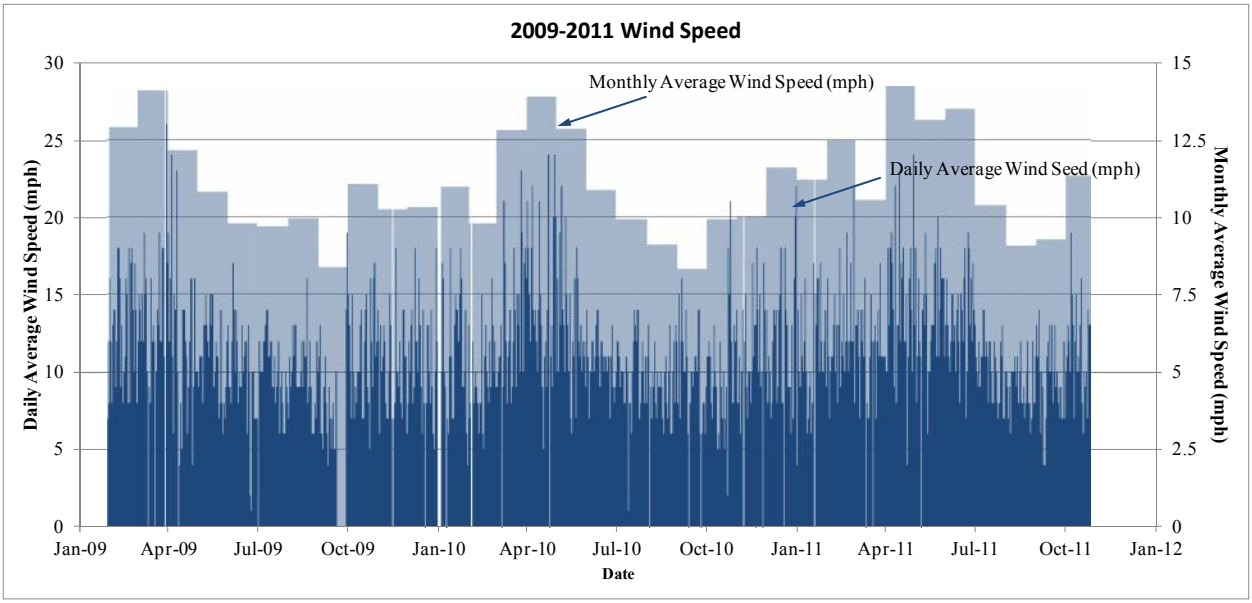
The climate of the east-central New Mexico area is tropical semiarid. Based on data collected

from 1914 to 2007 for the village of Melrose, the average annual minimum and maximum temperatures are 42.3 and 72.8 degrees Fahrenheit (°F); the maximum temperatures and precipitation occur during the summer months. The Melrose area is characterized by highly variable precipitation patterns; the average monthly precipitation ranges from 0.42 inches in January to 2.91 inches in July. The average annual precipitation is 16.19 inches, and most of the precipitation is lost to evaporation. Annual pan evaporation at a weather station in Clovis, New Mexico, is 86.68 inches; evaporation is greatest between May and August (Western Regional Climate Center). In the chart below, recent local rainfall (daily and monthly) is plotted for Melrose AFR. As is evident from the chart, the site vicinity receives the majority of annual rainfall during the summer months. The total annual rainfall for 2010 and 2011 (to date, November 21, 2011) was 20.06 and 7.02 inches, respectively. Rainfall in 2010 exceeds the annual average for the vicinity of 16.19 inches (Weather Undergound, 2011). Rainfall in 2011 is below the annual average. The area is characterized by highly variable precipitation patterns, the apparent greater than normal rainfall in 2010 and the lower than normal in 2011 may not be altogether atypical.



Prevailing winds are from the west with an average speed of 8 miles per hour. Windblown dust is generated frequently in this region of the country because the winds are often gusty and the

climate is semiarid. The Texas Panhandle/eastern New Mexico area is considered to have the highest dust particulate counts in the continental United States; occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the average daily wind speed commonly exceeds 20 to 20 mph and the average monthly wind speed approaches 15 mph (Weather Undergound, 2011).



5.0 MONITORING PLAN

5.1 Monitoring Requirements

5.1.1 Semiannual – SWMU Ground Water Quality Network

Based on the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) the current ground water monitoring plan provides for semiannual testing at ten wells associated with the Semiannual SWMU Ground Water Quality Network. A proposed background monitoring well (MWQ-23), upgradient of the SWMUs, was sampled as part of the 2011 sampling schedule. The accompanying tables summarize testing requirements.

Analyte	Field Parameters [1]	VOCs [2]	Explosives [3]	Metals [4] (Total & Diss.)	Chromium (VI)	Cyanide	Mercury	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	**NA**	**8260B**	**8330**	**6010C**	**7196A**	**9012A**	**7470A**	**300.0**	**300.0**	**6860**	**2320B**	**2540C**
M114MW001	x	x	x	x	x	x	x	x	x	x	x	x
M114MW002	x	x	x	x	x	x	x	x	x	x	x	x
M114MW003	x	x	x	x	x	x	x	x	x	x	x	x
M114MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW001	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW002	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW003	x	x	x	x	x	x	x	x	x	x	x	x
MAO1MW004	x	x	x	x	x	x	x	x	x	x	x	x
MAO2MW001D	x	x	x	x	x	x	x	x	x	x	x	x
MWQ-23	x	x	x	x	x	x	x	x	x	x	x	x

Semiannual - SWMU Ground Water Quality Network

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] VOCs: Target Compound List

[3] Explosives: 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene, 4-Nitrotoluene, HMX, Nitrobenzene, RDX, Tetryl

[4] Metals: Target Analyte List

5.1.2 Annual Ground Water Quality Network

Based on the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) the current ground water monitoring plan provides for annual testing at 14 wells associated with the Annual Ground Water Quality Network. The accompanying tables summarize testing requirements.

Annual - Ground Water Quality Network

Analyte	Field Parameters	Metals (Total & Diss.)	Chromium (VI)	Cyanide	Nitrite, Nitrate	Chloride, Sulfate	Perchlorate	Alkalinity	TDS
Method	NA	6010C	7196	9012A	353.2	300.0	314.0	2320B	2540C
MWQ-2	x	x	x	x	x	x	x	x	x
MWQ-3	x	x	x	x	x	x	x	x	x
MWQ-4	x	x	x	x	x	x	x	x	x
MWQ-5	x	x	x	x	x	x	x	x	x
MWQ-6	x	x	x	x	x	x	x	x	x
MWQ-7	x	x	x	x	x	x	x	x	x
MWQ-10	x	x	x	x	x	x	x	x	x
MWQ-14	x	x	x	x	x	x	x	x	x
MWQ-18	x	x	x	x	x	x	x	x	x
MWQ-19	x	x	x	x	x	x	x	x	x
MWQ-20	x	x	x	x	x	x	x	x	x
MWQ-21	x	x	x	x	x	x	x	x	x
MWQ-22	x	x	x	x	x	x	x	x	x
MWL-6	x	x	x	x	x	x	x	x	x

[1] Field Parameters: Conductivity, Dissolved Oxygen, pH, Temperature, Turbidity

[2] Metals: Target Analyte List

5.2 Data Summary

Although this report includes water quality data collected since January 2004, focus is on data collected in the most recent one-year reporting period (2011). The table below summarizes water quality testing events conducted at Melrose AFR and presented in this report. It should be noted that this table is likely not comprehensive of all ground water sampling conducted at Melrose AFR. As additional data is discovered or made available it will be included in summary tables and utilized for the purposes of discussion.

Summary of Water Quality Test Events

Sampling Event			USGS January 2004[1]	USGS July 2004[2]	USGS July 2005[1]	USGS June 2007[2]	Initial Baseline Ground Water Monitoring[3, 4]	2010 Spring Semiannual & Annual Sampling Event[4,5]	2010 Fall Semiannual Sampling Event[5]	2011 Spring Semiannual & Annual Sampling Event[4,5]	2011 Fall Semiannual Sampling Event[5]
Sample Dates		Start	1/12/2004	7/19/2004	7/18/2005	7/18/2007	1/20/2009	1/26/2010	10/25/2010	5/3/2011	9/27/2011
		End	1/15/2004	7/21/2004	7/20/2005	7/22/2007	2/3/2009	3/4/2010	10/29/2010	5/18/2011	10/3/2011
Semiannual - SWMU Ground Water Monitoring Well Network	SWMU 114	M114MW001	---	---	---	---	x	x	x	x	x
		M114MW002	---	---	---	---	x	x	x	x	x
		M114MW003	x	x	x	x	x	x	x	x	x
		M114MW004	---	---	---	---	x	x	x	x	x
	SWMU 117	M117MW001	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW002	---	---	---	---	x	DRY	DRY	DRY	Abandoned
		M117MW003	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
		M117MW004	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 130	MAO1MW001	---	---	---	---	x	x	x	x	x
		MAO1MW002	---	---	---	---	x	x	x	x	x
		MAO1MW003	x	x	---	---	x	x	x	x	x
		MAO1MW004	---	---	---	---	x	x	x	x	x
	SWMU 131	MAO2MW001D	x	x	x	x	x	x	x	x	x
		MAO2MW001S	---	---	---	---	DRY	DRY	DRY	DRY	Abandoned
	SWMU 132	MAO3MW001	---	---	---	---	---	---	---	DRY	Abandoned
	MWQ-23		---	---	---	---	---	---	---	x	x
Annual - Ground Water Quality Well Network	MWQ-2		x	x	x	x	x	x	---	x	---
	MWQ-3		x	x	x	x	x	x	---	x	---
	MWQ-4		---	---	---	x	x	x	---	x	---
	MWQ-5		x	x	x	x	x	x	---	x	---
	MWQ-6		x	x	---	x	x	x	---	x	---
	MWQ-7		---	---	---	x	x	x	---	x	---
	MWQ-8		---	---	---	x	DRY	DRY	---	DRY	---
	MWQ-10		x	x	x	x	x	x	---	x	---
	MWQ-14		x	x	x	x	x	x	---	x	---
	MWQ-18		---	---	x	x	x	x	---	x	---
	MWQ-19		---	---	---	---	x	x	---	x	---
	MWQ-20		---	---	x	x	x	x	---	x	---
	MWQ-21		---	---	x	x	x	x	---	x	---
	MWQ-22		---	---	x	x	x	x	---	x	---
	MWL-6		---	---	x	x	---	x	---	x	---

[1] Filtered ground-water samples were analyzed for explosives, metals, nitrate plus nitrite, ammonia as nitrogen, phosphorus, anions (bromide, chloride, fluoride, and sulfate), sulfide, organic carbon, alkalinity, dissolved solids, and perchlorate.

[2] Filtered ground-water samples were analyzed for volatile organic compounds, semi-volatile organic compounds, organochlorine pesticides, organophosphorus pesticides, metals, anions (bromide, chloride, fluoride, and sulfate), alkalinity, dissolved solids, organic carbon, phosphorus, sulfide, ammonia, nitrate plus nitrite, and perchlorate.

[3] 2009 Semiannual samples were collected and analyzed for VOCs, SVOCs, organochlorine pesticides, metals, hexavalent chromium, perchlorate, bromide, chloride, fluoride, sulfate, explosives, TOC, phosphate, and ammonia.

[4] 2010-2011 Annual samples were collected and analyzed for metals, TDS, hexavalent chromium, alkalinity, TOC, phosphate, ammonia, and nitrate/nitrite.

[5] 2010-2011 Semiannual samples were collected and analyzed for VOCs, explosives, metals, chloride, sulfate, nitrate, nitrite, total dissolved solids, alkalinity, cyanide, perchlorate, and hexavalent chromium.

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6.0 SUMMARY OF FIELD ACTIVITIES

The Annual Ground Water Monitoring Report focuses on data collected during the most recent one-year reporting period (2011). The 2011 spring sampling event, which included sampling associated with both the Semiannual SWMU Ground Water Quality Network and the Annual Ground Water Quality Network was conducted between May 3 and May 18, 2011. The 2011 fall sampling event, which included sampling associated with the Semiannual SWMU Ground Water Quality Network was conducted between November 27 and October 3, 2011.

The most recent field activities were completed in general accordance with field protocols included in the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011). Activities planned for the recent field sampling events included collecting ground water samples from the Semiannual SWMU Ground Water Quality Network and the Annual Ground Water Quality Network, collecting ground water levels from the entire monitoring network, inspecting the monitoring well network (Semiannual SWMU Ground Water Quality Network and the Annual Ground Water Quality Network), abandoning six shallow, dry wells, well head maintenance, and geophysically logging selected wells. Activities associated with each task are discussed in more detail below. Semiannual sample locations are depicted on Figure 3, Annual sample locations are depicted on Figure 7, and well construction details are summarized in Table 1.

6.1 Monitoring Well Network - Ground Water Sampling

Prior to sampling, the wells were purged using low-flow sampling techniques using a QED SE-1102PM stainless steel bladder pump or a Proactive SS Mega-Monsoon stainless steel submersible pump. Field parameters were monitored with an YSI 600-XLM multi-parameter water quality meter with attached flow through cell. The YSI multi-parameter water quality meter monitored dissolved oxygen (DO), temperature, pH, conductivity, and oxidation reduction potential (ORP). Turbidity was monitored with a Hanna HI-98703 Turbidity Meter. Ground water levels were measured prior to pumping and during pumping to monitor drawdown. Water levels were measured with a Solinst Water Level Meter (600 foot). The water quality meter was calibrated once per day before use. The turbidity meter is calibrated once every three months,

with the calibration verified each day of use, per the manufacturers instruction. Ground water sampling logs are provided in Appendix A.

Gulf Coast Analytical Laboratories, Inc. (GCAL), Baton Rouge, LA was used for sample analysis during this investigation. GCAL is accredited in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) (Certificate Number 01955), and the DoD Environmental Laboratory Accreditation Program (ELAP) (Certificate Number 1482). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents. Analytical data validation was conducted by third party Environmental Data Professional, LLC (eDATApro), Lake Charles, LA.

In accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) a quality control-split sample was collected and submitted to an alternate laboratory. The purpose of the split sample is to use the alternate laboratory to verify the accuracy of the primary laboratory. Accutest Laboratories (Accutest), Tampa, FL was used for analysis of the split sample. Accutest is accredited in accordance with the NELAC (Certificate Number E83510), and the DoD ELAP (Certificate Number L2229). The laboratory provided coolers, sample containers (including preservatives where applicable), custody seals, and chain-of-custody documents.

In accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) Field Duplicate samples and Equipment Blanks were collected at a 10-percent rate (i.e., one per every 10 samples collected) for all parameters. Laboratory quality control (QC) samples, including matrix spike/matrix spike duplicates (MS/MSDs), were collected at a 5-percent rate (i.e., one per every 20 samples collected) for all parameters. Trip Blanks were analyzed for VOCs and were included in each cooler shipped to the laboratory from the field. Split Samples were collected at a 5-percent rate (i.e., one per every 20 samples collected). For ease of reporting the Annual Ground Water Quality Network and the Semiannual Ground Water Quality Network were reported by the laboratory as separate Sample Delivery Groups (SDGs). As such, QC samples collected in the field are associated with one or the other SDG but not both. All Trip Blanks are associated solely with the Semiannual Ground Water

Quality Network as VOCs are not collected as part of the Annual Ground Water Quality Network.

Analysis of samples within the prescribed holding time is critical to ensuring that samples may be considered valid and representative of the sample matrix. Sample holding time is defined as the interval between sample collection and sample preparation/analysis. Allowable holding times for analyses employed in this investigation are included in the table below.

Appropriate Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Method	Container	Preservation	Maximum Holding Time
Alkalinity	SM2320B	Plastic	Cool, ≤6 °C	14 days
Cyanide	SW 846 9012A	Plastic	Cool, ≤6 °C, NaOH to pH>12	14 days
Explosives	EPA 8330	Glass Amber	Cool, ≤6 °C	14 days
Hexavalent Chromium	SW 846 7196A	Plastic	Cool, ≤6 °C	24 hours
Metals	EPA 6010C	Plastic	HNO3 to pH<2	6 months
Nitrate + Nitrite	EPA 353.2	Plastic	Cool, ≤6 °C	48 hours
Perchlorate	EPA 314.0	Plastic	Cool, ≤6 °C	28 days
Chloride, Sulfate	EPA 300.0	Plastic	Cool, ≤6 °C	28 days
Total Dissolved Solids	SM2540C	Plastic	Cool, ≤6 °C	7 days
VOCs	8260B	G, FP-lined septum	Cool, ≤6 °C, HCl to pH 2	14 days

Samples intended for chemical analyses were packed on wet ice in sealed coolers for preservation during transport to the laboratory. Preservation ensures a temperature of 4º ±2°Celsius (°C) upon receipt by the contract laboratory. Samples were shipped by overnight commercial courier to the designated laboratory. Proper shipping and handling protocol included: filling of containers with an appropriate amount of sample medium, ensuring that container lids were tight, ensuring that labels were completed, wrapping containers in bubble wrap for protection, double bagging of ice, and inclusion of appropriate quality assurance/quality control (QA/QC) blanks. Chain-of-custodies (COCs) accompanied samples in a waterproof plastic bag taped to the inside of the cooler lid. Copies of the COCs are provided in Appendix A.

Decontamination procedures were in general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011). Sufficient quantity of clean equipment was transported to the field to last the entire day. Disposable equipment was used when possible to eliminate the possibility of cross contamination. Additionally, new sample containers

for laboratory analyses were provided by the laboratory for each sample collected.

6.1.1 2011 Semiannual Spring - Ground Water Quality Network

Ground water samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	05/09/2011 09:55
	M114MW002	05/06/2011 11:35
	M114MW003	05/06/2011 14:30
	M114MW004	05/05/2011 15:16
SWMU 130	MAO1MW001	05/09/2011 14:16
	MAO1MW002	05/16/2011 09:35
	MAO1MW003	05/10/2011 13:20
	MAO1MW004	05/10/2011 11:11
SWMU 131	MAO2MW001D	05/05/2011 12:23
Proposed Background	MWQ-23	05/16/2011 11:10

The monitoring wells were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. All monitoring wells were sampled from within the screened interval. Sample locations are depicted on Figures 3 and 7 and well construction summary details are provided in Table 1. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in Table 2 and Table 3.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Incorporating maximum expected well and tank parameters purge volume of approximately 100 gallons. This is necessary to provide an assurance that the ground water being collected is representative of the ground water in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump will be opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters will then be collected. All wells were sampled from within the

screened interval.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MW114MW001
- MS/MSD: MAO1MW001
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5, TB-6, TB-7, TB-8, and TB-9 (TB-3 was submitted to Accutest as part of the Split Sample)

6.1.2 2011 Annual Spring - Ground Water Quality Network

Ground water samples were collected from the following wells at the dates and times specified:

Sampling Schedule

	MWQ-2	05/05/2011 09:26
	MWQ-3	05/03/2011 09:15
	MWQ-4	05/03/2011 10:18
	MWQ-5	05/03/2011 11:57
	MWQ-6	05/03/2011 13:12
Background	MWQ-7	05/03/2011 13:53
Background	MWQ-10	05/03/2011 15:23
	MWQ-14	05/13/2011 12:31
	MWQ-18	05/12/2011 12:40
	MWQ-19	05/12/2011 09:50
	MWQ-20	05/17/2011 13:22
	MWQ-21	05/11/2011 13:05
	MWQ-22	05/11/2011 11:01
	MWL-6	05/18/2011 14:30

Due to the depth to water and the TD of the wells, MWQ-2, MWQ-20, and MWQ-22 were purged and sampled using low-flow sampling techniques by using a QED SE-1102PM stainless steel bladder pump. Wells MWQ-14 and MWL-6 were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. With the exception of MWQ-4, the remaining wells are plumbed with pressure tanks and

dedicated submersible pumps. Well MWQ-4 is plumbed with a dedicated submersible pump powered by a solar panel. Due to the shallow depth to ground water MWQ-4 is not plumbed to a pressure tank.

The wells have pressure tanks (approximately 20 to 50 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, purge volumes range from 100-350 gallons. This is necessary to provide an assurance that the ground water being collected is representative of the ground water in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump will be opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters will then be collected.

Sample locations are depicted on Figures 3 and 7 and well construction summary details are provided in Table 1. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in Table 2 and Table 3.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: MWQ-5 and MWQ-20
- MS/MSD: MWQ-10 and MWQ-14
- Split Sample: MWQ-22
- Equipment Blank: EB-2

6.1.3 2011 Semiannual Fall - SWMU Ground Water Quality Network

Ground water samples were collected from the following wells at the dates and times specified:

Sampling Schedule

SWMU 114	M114MW001	09/30/2011 12:36
	M114MW002	10/03/2011 09:32
	M114MW003	10/03/2011 11:46
	M114MW004	09/30/2011 10:00
SWMU 130	MAO1MW001	09/27/2011 09:33
	MAO1MW002	09/29/2011 13:06
	MAO1MW003	09/27/2011 12:21
	MAO1MW004	09/29/2011 11:10
SWMU 131	MAO2MW001D	09/28/2011 10:28
Proposed Background	MWQ-23	09/29/2011 08:40

The monitoring wells were purged and sampled using low-flow sampling techniques using a Proactive SS Mega-Monsoon stainless steel submersible pump. All monitoring wells were sampled from within the screened interval. Sample locations are depicted on Figures 3 and 7 and well construction summary details are provided in Table 1. After purging was completed as demonstrated by stabilized water quality parameters, samples were collected and analyzed for VOCs, explosives, total and dissolved metals, chloride, sulfate, nitrate, nitrite, TDS, alkalinity, cyanide, perchlorate, and hexavalent chromium. A summary of analytical and field data from the most recent sampling event is provided in Table 2 and Table 4.

Well MWQ-23 is plumbed with a pressure tank and dedicated submersible pump. The well has a pressure tank (approximately 20 gallons) to aid in providing a constant supply of water for the cattle. In general accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) it is necessary to ensure that the sampling protocol accounts for the "system volume" when purging the wells. Considering maximum expected well and tank parameters, a volume of approximately 100 gallons was purged. This is necessary to provide an assurance that the ground water being collected is representative of the ground water in the formation versus potentially stagnant water from the pressure tank or well column. Therefore, prior to collection of stabilization parameters the spigot closest to the pump will be opened and allowed to flow at maximum flow to purge a sufficient volume from the pressure tanks. Stabilization parameters will then be collected. All wells were sampled from within the screened interval.

Groundwater samples were placed in appropriately-labeled sample containers, packed in coolers with wet ice to attain a temperature of 4 °C, and shipped to GCAL in Baton Rouge, Louisiana via Federal Express.

QC samples collected in the field included:

- Field Duplicates: FD-1
- MS/MSD: MAO1MW003
- Split Sample: MAO2MW001D
- Equipment Blank: EB-1
- Trip Blanks: TB-1, TB-2, TB-4, TB-5 and TB-6 (TB-3 was submitted to Accutest as part of the Split Sample)

6.2 Investigation Derived Waste

Investigation-derived waste (IDW) from the Spring 2011 sampling event consisted of purge and decontamination water. All IDW collected during groundwater sampling was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into 55-gallon drums located at a designated area for IDW storage. The 55-gallon drums contained a limited amount of purge water from sampling conducted by URS in 2009. All IDW storage drums were labeled according to the field sampling plan outlined in the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011). During the Fall 2011 Sampling event TRINITY coordinated with Eco-logical Environmental Services, Inc. (ECO) for proper disposal on non-hazardous waste. ECO mobilized to Melrose AFR on October 5, 2011 to pick up the IDW. ECO transported and disposed of the IDW at Southwest Landfill in Canyon, Texas. Copies of the Waste Manifest are included in Appendix A.

IDW from the Fall 2011 sampling event was temporarily containerized in 5-gallon buckets with lids secured in the bed of the pickup truck. At the completion of daily field activities, the IDW was discharged into a 250-gallon carboy located at a designated area for IDW storage. TRINITY has submitted copies of the laboratory data to NMED and is currently waiting for approval to

dispose of the IDW in accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011).

6.3 Ground Water Elevation Measurements

Water levels were measured from the surveyed elevation reference points on the tops of the polyvinyl chloride (PVC) casings or, in the case of metal or concrete well casings, from the highest point of the casing using a Solinst Water Level Meter (600 foot). Measurements were taken to the nearest hundredth of a foot, and were documented in the log book. The probes were decontaminated before use, between wells, and at the conclusion of measurement activities. Recent and historical ground water level measurement information is presented in Table 5.

Water levels from the Spring 2011 sampling event were collected prior to the start of groundwater sample collection at all accessible monitoring wells prior to well purging and sampling between May 3 and May 16, 2011. Water levels from the Fall 2011 sampling event were collected between September 27, 2011 and October 3, 2011.

6.4 Monitoring Network Well Inspection/Maintenance

Well inspections sought to verify presence of: identification tag, total well depth, well type completion, presence, and condition of bollards, protective casings, well pads, type of cap, etc. Well conditions for the Semiannual SWMU Ground Water Quality Network and Annual Ground Water Quality Network are summarized in Table 1 and a photographic log of the wells inspected is presented in Appendix B. Due to access issues to the Impact Area it was not possible to inspect or collect water levels from MWL-3.

6.5 Monitoring Well Abandonment

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon six wells. The six “dry” wells previously approved for abandonment by NMED are M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001. TRINITY had previously submitted request for and was

in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer.

6.6 Geophysical Logging Activities

The geophysical logging suite selected consisted of natural gamma ray and induction resistivity logs. These logs were selected because of their ability to provide 'through-casing' measurements of various physical properties of the aquifer through existing well casings.

6.6.1 Gamma Logs

The natural gamma ray log is the most widely used nuclear log in ground water applications. The log provides a vertical profile or record of gamma radiation emitted by unstable elements in the formation. In most sedimentary environments, the radiation measured by the probe comes primarily from potassium-40 and daughter products of the uranium and thorium decay series. Of these three nuclides, potassium-40 originating from clay minerals such as illite (mica) and montmorillonite is usually the major contributor gamma radiation. As the logging probe is cycled in or out of the well, its scintillation detector receives gamma radiation emanating from the formation opposite the probe. Approximately 90% of the radiation measured by the probe originates within the first 6-12 inches of the formation being investigated. The scintillation detector uses a crystal that emits light when struck by gamma rays, which is then amplified and converted to an electrical signal by a photomultiplying tube. The electrical signal is then processed into a numerical value (counts per second) that is recorded versus depth.

The gamma log has many uses in hydrogeology that are applicable to the geology/hydrogeology at Melrose AFR. The most common uses are lithologic identification and stratigraphic correlation, which are particularly relevant to mapping ground water flow regimes and migration of contaminants. Other uses include qualitative identification of relative grain size trends in vertical profile and interpretation of depositional environment (also relevant to ground water flow and contaminant transport). The gamma log is also used for collecting data of a confirming or validating nature regarding well construction. Its ability to read though well casing make it useful for auditing physical descriptions of sediments recorded in boring logs and verifying well

screen targets.

Various rock types and sediments can be characterized by their gamma intensity, but the ranges of intensities are variable and often common to several materials, hence some background knowledge of local geology is needed to correctly interpret the gamma log. With respect to the Ogallala Aquifer and Chinle Formation, interpretation is based primarily on the assumption that clay and fine-grained detrital sediments contain more radioactive elements than quartz sand and are thus distinguished from the latter by greater gamma intensity. High counts/second readings on the log are interpreted to be more clayey sediment; low counts/second readings are interpreted as more sandy material. While the gamma log can be used to calculate clay content in some cases, particularly where enough laboratory data has been collected to support an empirical relationship, it is most commonly used as a qualitative indicator of sand and clay.

Extraneous effects that can complicate gamma log interpretation need to be considered when viewing the logs. Some of the more important ones relevant to the geology/hydrogeology at Melrose AFR include the fact that radioactive elements and minerals such as uranium and biotite may be present in sands, uranium can be concentrated in organic layers, and all clays are not necessarily equal in their gamma intensity. Extraneous effects relevant to any logging effort include tool position in the well (an eccentralized probe can give a different response than a centralized probe in larger diameter holes (≥8-inch diameter); borehole diameter has an effect on measured radiation, as do washouts and oversized filter-packs (the farther the formation is from the probe, the fewer counts/second received at the detector); a logging speed that outpaces the tool's sampling capability will skew the log's output; well construction materials can affect the gamma intensity measured by the probe, either increasing the counts/second because of radioactive minerals in construction materials (e.g., bentonite seal) or dampening counts/second (steel casing versus pvc casing).

The most accurate interpretation of the gamma log is made when these details are considered and the log is supplemented with other geophysical logs and drilling reports.

6.6.2 Induction Resistivity Logs

Electromagnetic induction resistivity logs are commonly used in plastic-cased boreholes since their operation does not require contact with the formation or the presence of a conductive fluid in the borehole. While the tool actually measures the electrical conductivity of the formation, its inverse (resistivity) is traditionally presented as the logging product.

The induction probe relies on two coils, one to transmit alternating current into the surrounding formation and a second coil to receive the return signal. As the probe passes through the well, the transmitted alternating current induces eddy currents in the formation that form a secondary magnetic field that in turn induces a voltage in the receiving coil. The received signal is amplified, converted to direct current, and transmitted up the cable to the logger, where it is manipulated to provide a record of resistivity (ohm-m) versus depth.

The electrical conductivity of a porous formation is a function of the combined electrical conductivity of the matrix material and the pore fluid. The resistivity plotted on the log is the inverse of the average conductivity of a constantly varying volume of material surrounding the probe. The volume of investigation depends partly on the nature of the formation material being investigated, but mostly on coil spacing, which varies between different manufacturers. Most induction probes investigate a sphere less than about 60 inches in diameter and are designed to be relatively insensitive to materials within a few inches of the sonde or probe axis.

Induction logging provides hydrogeologists with a mechanism for making resistivity measurements in wells where this information was not collected during drilling. Since formation resistivity is affected by the porosity, permeability, and clay content of the formation and by the dissolved solids concentration of the water within the formation, its potential applications in studies of freshwater aquifers such as the Ogallala Aquifer would be expected to be numerous. In practice, however, its application is limited because the tool is most responsive to small changes in resistivity in low-resistivity environments. Best results are achieved in formations with resistivities less than about 200 ohm-m. Bulk resistivity in the Ogallala Aquifer is routinely greater than 200 ohm-m. Despite this limitation, the tool can still produce important subsurface information, particularly when paired with the natural gamma log. Some of the more common

uses of the induction resistivity include locating freshwater/saltwater interfaces, saltwater intrusion monitoring, delineation of bed boundaries, water quality mapping (quantitative delineation is possible using empirical relationships established with sufficient laboratory data), and tracking of both conductive and non-conductive contaminant plumes.

The general concept for interpretation of the induction resistivity log in unconsolidated, granular freshwater aquifers such as the Ogallala Aquifer is that highest resistivities are usually associated with clean quartz sands saturated with low-TDS water and lower resistivities occur in finer-grained, clayey sediment. The resistivity recorded on the log is an apparent resistivity measurement or bulk measurement that includes the effect of all materials in the electrical path between transmitter and receiver. Upon development of a reliable formation factor, the bulk resistivity measurement can be corrected and used to calculate the resistivity of the formation water, which has many uses in water quality evaluation. Accurate interpretation of the resistivity log requires that extraneous effects be considered. Anything that affects water chemistry around the well can have effect on the resistivity measurement. Introduction of foreign fluids to the formation such as invasion of drilling fluids during well drilling and impacted ground water from contaminated sites can have effect. Other common influences include the degree of saturation in the formation's pore space, bed thickness, and presence of conductive objects used in well construction.

6.6.3 Logging Equipment

Geophysical logging was accomplished using digital wire-line equipment manufactured by Mount Sopris Instrument Co., Inc. of Golden, Colorado. The logging probes (2PGA-1000 natural gamma and 2PIA-1000 induction resistivity) were connected to a 4MXC-1000 winch with ⅛-inch single-conductor cable used to transmit log data to a MGX II log acquisition console for processing (MS-Log log acquisition software). The logger was operated with a Windows-based PC and the entire system was powered with a portable generator.

Details on the 2PGA-1000 gamma probe are summarized in the accompanying table. Approximately 90% of the radiation measured by the probe originates within the first 6-12 inches of the formation being investigated.

2PGA-1000 (Natural Gamma, SP, Single Point Resistance)

Length	79.5 cm (31.3")
Diameter	41 mm (1.63")
Weight	3.2 Kg (7 lbs)
Pressure Rating	13,790 kPa (2000 PSI)
Operating Temperature	10 - 70°C (14 - 120°F)
Sensor (Detector)	Na(tl) scintillation 22.2 mm dia. x 76.2 mm long (0.875 x 3")
Measurement Range	0 - 100,000 CPS gamma ± 1,500 mV SP 1 - 500 Ohms SPR
Accuracy	± 1% of full scale
Resolution	0.02% of full scale

Details on the 2PIA-1000 induction probe are summarized in the accompanying table. The coil array on the induction probe is designed to be insensitive to materials at a radial distance of less than about four inches from the sonde. Vertical resolution of the tool is approximately two feet. The volume of investigation is similar to that of a 16-inch normal resistivity probe.

2PIA-1000 Electromagnetic Induction

Length	158 cm (62.2")
Diameter	39 mm (1.5")
Weight	2.7 Kg (6 lbs)
Pressure Rating	10500 kPa (1500 PSI, higher pressure housing avail)
Operating Temperature	-20 to 50°C (6 - 122°F)
Sensor (Detector)	Magnetic-induced electric field coils @ 25 & 50 cm
Measurement Range	0 -10,000 mS/Meter
Accuracy	5% of full scale
Resolution	0.02% of full scale

6.6.4 Logging Procedure

The three deep wells (MWQ-2, MWQ-20, and MWQ-22) that are located in the Chinle Formation were selected based on their total depths and dispersion across Melrose AFR. Two shallow wells (M117MW001 and M117MW004) scheduled for abandonment were also logged. The following procedure was followed for each of the wells that were geophysically logged:

- The gamma probe was connected to the logging unit, centered over the well, and referenced to the well's top of casing. The probe was cycled to the bottom of the well (logger TD) and this measurement was compared to the physical TD measurement

previously recorded. The probe was then retrieved from the hole and 'logged up' (geophysical data collected only while logging up the hole). Logging speed was 10-12 feet/minute. The wire-line was cleaned (rinse/liquinox wash/rinse/isopropyl alcohol wipe) as the probe was retrieved from the hole. After logging, the probe was disconnected and similarly cleaned.

- The induction logging run was similarly conducted, except that a 10-15 minute temperature stabilization period was allowed for the tool while at the bottom of the well.
- Raw logging data (".las" and ".rd" data files) generated by the MS-Log acquisition software was imported into WellCAD, a Windows-based well management software package, and then processed.

6.6.5 Quality Assurance/Quality Control

Quality control was achieved primarily by following uniform logging procedure from well to well. Key practices included the use of the same logging equipment and tools throughout the logging project, maintaining consistent logging speed (10-12 feet/minute), and maintaining consistent logging direction (all wells were logged 'up'). Other relevant practices included careful positioning of the probes to a consistent reference point (top of well casing) and removing slack from the wire-line cable to measure true TD. The induction resistivity tool was also calibrated at the start of each day of logging (the gamma tool does not need this).

Depth accuracy was checked using two methods. Well depths, manually measured using an electronic water level indicator, were compared to the well depths recorded by the geophysical logger. Good agreement between the two measurements was observed as differences seldom exceeded 0.10 feet. An internal check was also made by comparing the logger's depth display to a mark on the wire-line that was referenced to starting and finishing points. Depth error was routinely less than 0.2 feet.

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7.0 MONITORING RESULTS

Although this report utilizes data (ground water elevations, hydraulic conductivities, water quality data, etc.) gathered since 1994, focus is on data collected in the most recent one-year reporting period (2011). Much of the information presented in this report is in the form of tables, charts, and diagrams. Limited discussion accompanies each section since most illustrations do not require detailed explanation. This report represents the second complete Annual Water Quality Report for Melrose AFR. A summary of analytical and field data from the most recent sampling event are provided in Table 2, 3, and 4. Available historic data is summarized in Appendix C and includes parameter summary tables and trend plots. Laboratory analytical data is included in Appendix D. In accordance with the *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) split samples were collected for submittal to an alternative laboratory. The analytical data for the split samples are also included in Appendix D.

To determine whether potential site-related contaminants exceed ground water screening guidelines the following procedure will be prioritized as follows:

1. Water Quality Control Commission (WQCC) NMAC Title 20 Environmental Protection, Chapter 6 Water Quality, Part 2 Ground and Surface Water Protections, Section 20.6.2.3103 Subsections A, B, and C values will be compared with the *United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels for Drinking Water (primary and secondary)*. The lower value for either of these lists will be applied per analyte.
2. In the absence of a limit under the WQCC or USEPA Drinking Water standards, screening levels for tap water as published in the NMED *Technical Background Document for Development of Soil Screening Levels, Revision 5 (NMED SSLs)(December 2009)* would be applied.
3. In the event that the above lists do not have a value for a contaminant of concern, values found in the *USEPA Regional Screening Levels for Contaminants at Superfund Sites (RSLs) (May 2010)* would be used for evaluation.

The ground water screening guidelines are included on Table 2, 3, and 4 and on all summary

tables in Appendix C. Exceedances of ground water screening guidelines are highlighted in red.

New Mexico Administrative Code 20.6.2.3103 states that standards shall apply to the dissolved portion of the contaminants specified, with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

However, in an October 30, 2001 Position Paper, "Use of Low-Flow and Other Non-Traditional Sampling Techniques for RCRA Compliant Groundwater Monitoring" NMED states that RCRA and the New Mexico WQCC have different requirements for the collection of groundwater samples for metals analyses (NMED, 2001). RCRA requires unfiltered inorganic groundwater samples in an attempt to emulate drinking water maximum contaminant levels (MCLs). However, the NMED Groundwater Quality Bureau (GWQB), which derives its regulatory authority from the WQCC regulations, requires filtered samples. This statement seems to contradict NMAC. Therefore both were collected.

The presence of metals in ground water samples collected from monitoring wells can be natural, anthropogenic in origin, or both. Metals are common, naturally occurring, ubiquitous elements in sediments such as the Ogallala, and in some instances may naturally exceed applicable standards. Elevated metals in ground water samples may be an artifact of the well installation process in that formation damage incurred during drilling may not be sufficiently repaired and/or the well may not be completely developed, which result in elevated turbidity during well sampling. Additionally, and sometimes unavoidably, the targeting of less desirable strata, i.e., placing the screen intake opposite clayey sediment, can also result in the introduction of colloidal clay into samples, which may also produce high metals results. Sampling protocol can have significant effect on measured concentrations.

It is TRINITY's experience that for ground water collected from wells installed in clastic aquifers, such as this one, comparison of total and dissolved metals results is essential. Large discrepancies between total and dissolved results for ground water collected in this type of environment suggests 'artificial' influence from the well. When similar concentrations for total

and dissolved metals are reported during a single sampling event the total result is likely an accurate reflection of the metal concentration in ground water moving through the aquifer, and would suggest that the reported concentrations are ambient in origin, waste related, or both. To date, insufficient data has been collected to accurately determine a relationship between turbidity and elevated metals concentrations in total and dissolved ground water samples.

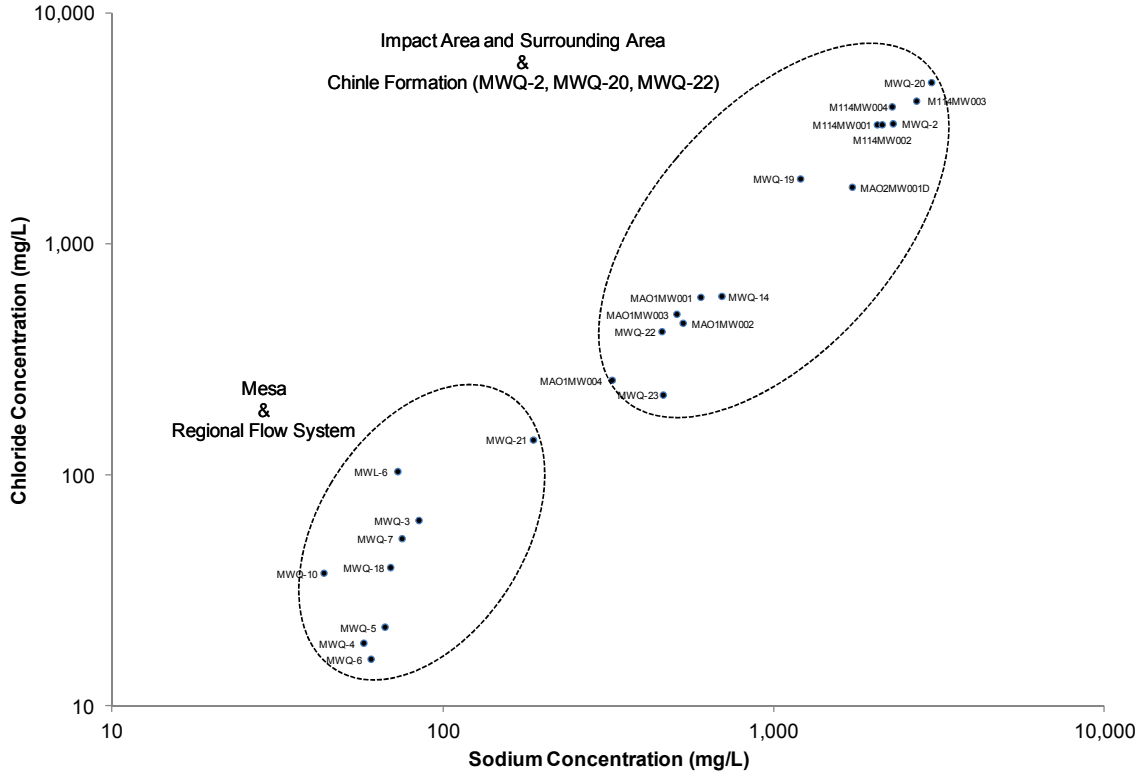
Previous sampling events conducted at Melrose AFR have included dissolved (filtered) metals results. In the majority of sampling conducted prior to January 2010 only dissolved metals results appear to have been reported. NMED has previously accepted the use of dissolved metals data at Melrose AFR to support the argument that increased turbidity may result in increased metals concentrations. Documents where data has previously been submitted and accepted include but are not limited to:

- Phase I RCRA Facility Investigation for Melrose Air Force Range, 1996;
- RCRA Facility Investigation Report Addendum, 2003;
- Final Report, Initial Baseline Groundwater Monitoring, Melrose Air Force Range, New Mexico, 2009.

7.1 Ground Water Quality

7.1.1 Background Water Quality

Based on major ion chemistry, temperature, specific conductance, and TDS, etc. the USGS identified three sources of different ground water in the immediate vicinity of the Melrose AFR: (1) local flow system near the Mesa and ephemeral channels, (2) local flow system in the impact area, and (3) regional flow in the Portales Valley (Langman, 2004). However, water from the local flow system near the Mesa and water in the regional flow system in the Portales Valley were determined to be of somewhat similar quality. Based on the USGS findings, ground water in the vicinity of the Melrose AFR Impact Area is a different flow system and not the same quality water as the Regional Flow System. The difference in water quality is likely attributable to the upward potential/migration of ground water from the Chinle Formation. Using the same geochemical technique, TRINITY averaged all sodium/chloride concentration data available from 2004 to present. The data is plotted below (log-log scale):



As demonstrated in the plot above, the data plotted very similar to that of the USGS, indicating a higher quality of water in the Mesa area and the Regional Flow System (Portales Valley) than the local flow system beneath the Impact Area

Based on previous discussions and agreements with NMED a new background well for the SWMUs was proposed to be installed adjacent to MWQ-10. However, MWQ-10 is located on a portion of Melrose AFR (the Mesa) where ground water is not mixing with the underlying Chinle Formation, as previously discussed. Based on ground water geochemistry data and the ground water flow direction, ground water collected from MWQ-8 is upgradient of the SWMUs and the Impact Area and is located on a portion of Melrose AFR that would provide a more representative ground water quality sample for the Impact Area. Wells MWQ-10 and/or MWQ-7 would be likely candidates for background water quality for non-mixing ground water (Mesa and Regional Flow System). Both wells are upgradient of the SWMUs and the Impact Area. Background water quality based on data collected from these three wells is summarized below. Background water quality data from MWQ-8 is based on data presented by USGS (2004), data from MWQ-7 and MWQ-10 is based on data presented in this report.

General Background Water Quality

	Impact Area (mixing)		Mesa & Regional Flow System (non-mixing)	
	MWQ8		MWQ7	MWQ10
Conductivity	3,190		0.87	0.64
Dissolved Oxygen	2.5		6.90	8.03
pH	7.6		7.57	7.09
Temperature	18.2		17.43	17.82
Turbidity	---		0.22	0.84
Aluminum (ug/L)	---		<D.L.	<D.L.
Antimony (ug/L)	---		<D.L.	0.01
Calcium (ug/L)	51,000		57,675	55,229
Iron (ug/L)	---		16.7	8.0
Magnesium (ug/L)	21,000		24,700	31,414
Manganese (ug/L)	---		0.7	0.5
Sodium (mg/L)	662		76.75	24.80
Chloride (mg/L)	445		53	38
Sulfate (mg/L)	600		159	52
Total Dissolved Solids (mg/L)	1,900		514	397

<D.L. indicates value below detection limit; --- indicates parameter not analyzed for or data was unavailable.

TRINITY submitted an updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) in which it was recommended prior to the expenditure of additional funds to install a new monitoring well, that MWQ-23 be considered. Based on site specific geology this existing cattle stock supply well located approximately 3,100 feet west of MWQ-8, appears to be able to provide adequate background data for the local flow system in the Impact Area

The new background well (MWQ-23) was sampled during both the Spring 2011 and Fall 2011 sampling events. The data is summarized in Table 2, 3, and 4. The laboratory analytical data is provided in Appendix D. Based on major ion chemistry, temperature, specific conductance, and TDS, etc. it appears that the water quality associated with MWQ-23 is similar to ground water associated with the local flow system in the Impact Area. Due to the variability of mixing between the Chinle and Ogallala Aquifer above it may be difficult to locate a well upgradient of the Impact Area, that is not located within portions of the range that are actively being bombed, and is located on a portion of the range where water from the Chinle is leaking upward and mixing with the Ogallala Aquifer. MWQ-23 would therefore appear to be a viable option as a

background well for the collection of ground water quality samples. General background water quality from MWQ-8 (local flow system in the Impact Area) and MWQ-7 and MWQ-10 (Mesa and Regional Flow System) is compared to MWQ-23 in the table below.

General Background Water Quality-MWQ-23

	Impact Area (mixing)		Mesa & Regional Flow System (non-mixing)			Proposed Background Well for Impact Area
	MWQ8		MWQ7	MWQ10		MWQ-23
Conductivity	3,190		0.87	0.64		2.2
Dissolved Oxygen	2.5		6.9	8.03		0.18
pH	7.6		7.57	7.09		8.09
Temperature	18.2		17.43	17.82		19.71
Turbidity	---		0.22	0.84		1.6
Aluminum (ug/L)	---		<D.L.	<D.L.		<D.L.
Antimony (ug/L)	---		<D.L.	0.01		<D.L.
Calcium (ug/L)	51,000		57,675	55,229		14,550
Iron (ug/L)	---		16.7	8		0
Magnesium (ug/L)	21,000		24,700	31,414		9,715
Manganese (ug/L)	---		0.7	0.5		73
Sodium (mg/L)	662		76.75	24.8		48.5
Chloride (mg/L)	445		53	38		224
Sulfate (mg/L)	600		159	52		410
Total Dissolved Solids (mg/L)	1,900		514	397		1365

7.1.2 Suitability of the Data

All analytical data was evaluated by eDATApro. Level III Data Validation was performed according to guidance from *USEPA National Functional Guidelines for Organic Data Review* (USEPA, 1999), *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, 2004) and the project specific Quality Assurance Project Plan. The eDATApro Data Validation Reports are included in Appendix E. Two Sample Delivery Groups from the Spring 2011 sampling event and one from the Fall 2011 sampling event were evaluated by eDATApro and include the following:

Sample Delivery Groups – Spring 2011

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Annual Ground Water Quality Network	211050608	TB1	21105060803	5/5/2011	9:26:00 AM
		TB2	21105060804	5/5/2011	9:26:00 AM
		MAO2MW001D	21105060801	5/5/2011	12:23:00 PM
		M114MW004	21105060802	5/5/2011	3:16:00 PM
		TB4	21105060808	5/6/2011	12:00:00 AM
		TB5	21105060809	5/6/2011	12:00:00 AM
		M114MW002	21105060805	5/6/2011	11:35:00 AM
		EB1	21105060806	5/6/2011	12:30:00 PM
		M114MW003	21105060807	5/6/2011	2:30:00 PM
		TB6	21105060814	5/9/2011	12:00:00 AM
		M114MW001	21105060815	5/9/2011	9:55:00 AM
		M114MW001-DUP	21105060816	5/9/2011	9:55:00 AM
		MAO1MW001	21105060810	5/9/2011	2:16:00 PM
		MAO1MW001-MS	21105060811	5/9/2011	2:16:00 PM
		MAO1MW001-MSD	21105060812	5/9/2011	2:16:00 PM
		TB8	21105060817	5/10/2011	12:00:00 AM
		TB7	21105060820	5/10/2011	12:00:00 AM
		MAOMW004	21105060818	5/10/2011	11:11:00 AM
		MAOMW003	21105060819	5/10/2011	1:20:00 PM
		TB9	21105170903	5/16/2011	12:00:00 AM
		MAO1MW002	21105170901	5/16/2011	9:35:00 AM
		MWQ23	21105170902	5/16/2011	11:10:00 AM

	SDG	Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual Ground Water Quality Network	211050426	MWQ-3	21105042601	5/3/2011	9:15:00 AM
		MWQ-4	21105042602	5/3/2011	10:18:00 AM
		MWQ-5	21105042603	5/3/2011	11:57:00 AM
		MWQ-5-DUP	21105042604	5/3/2011	11:57:00 AM
		MWQ-6	21105042605	5/3/2011	1:12:00 PM
		MWQ-7	21105042606	5/3/2011	1:53:00 PM
		MWQ-10	21105042607	5/3/2011	3:23:00 PM
		MWQ-10-MS	21105042608	5/3/2011	3:23:00 PM
		MWQ-10-MSD	21105042609	5/3/2011	3:23:00 PM
		MWQ-2	21105042611	5/5/2011	9:26:00 AM
		MWQ-22	21105042612	5/11/2011	11:01:00 AM
		MWQ-21	21105042613	5/11/2011	1:05:00 PM
		MWQ-19	21105042614	5/12/2011	9:50:00 AM
		MWQ-18	21105042615	5/12/2011	12:40:00 PM
		MWQ-14	21105042616	5/13/2011	12:31:00 PM
		MWQ14-MS	21105042617	5/13/2011	12:31:00 PM
		MWQ14-MSD	21105042618	5/13/2011	12:31:00 PM
		MWQ-20	21105042620	5/17/2011	1:22:00 PM
		MWQ-20 DUP	21105042621	5/17/2011	1:22:00 PM
		EB2	21105042622	5/18/2011	10:30:00 AM
		MWL6	21105190401	5/18/2011	2:30:00 PM

Sample Delivery Groups – 2011 Semiannual Fall

	SDG	Sample ID	Lab ID	Sample Date	Sample Time		Sample ID	Lab ID	Sample Date	Sample Time
Spring 2011 - Semiannual	2110928048	MA01MW001	21109280401	9/27/2011	9:33:00		TB-4	21109280413	9/29/2011	8:40:00
		MA01MW003	21109280402	9/27/2011	12:21:00 PM		MA01-MW004	21109280411	9/29/2011	11:10:00
		MA01MW003-MS	21109280403	9/27/2011	12:21:00 PM		MA01-MW002	21109280412	9/29/2011	1:06:00 PM
		MA01MW003-MSD	21109280404	9/27/2011	12:21:00 PM		M114MW004	21110010501	9/30/2011	10:00:00
		MA01MW003-DUP	21109280406	9/27/2011	12:21:00 PM		TB-5	21110010503	9/30/2011	10:00:00
		TB-1	21109280405	9/27/2011	4:33:00 PM		M114MW001	21110010502	9/30/2011	12:36:00 PM
		MA02 MW001D	21109280407	9/28/2011	10:28:00		EB-1	21110010504	10/3/2011	8:00:00
		FD-1	21109280408	9/28/2011	10:28:00		TB-6	21110010507	10/3/2011	8:00:00
		TB-2	21109280409	9/28/2011	10:28:00		M114MW002	21110010505	10/3/2011	9:32:00
		MWQ-23	21109280410	9/29/2011	8:40:00		M114MW003	21110010506	10/3/2011	11:46:00

7.1.2.1 Holding Times

Review of the sample collection and analyses dates involved comparing the COCs, the chemical results summary forms, and the raw data forms for accuracy, consistency, and holding time compliance. All samples were prepared and analyzed within the required holding time criteria with the exception of the following:

- **2011 Annual Spring (SDG 211050426)**
  1. MWQ-3 was received after expiration of the 24-hour holding time for Chromium VI. MWQ-4, MWQ-5, MWQ-5-DUP, MWQ-6, and MWQ-7 were received within the 24-hour holding time but were not processed through receiving prior to expiration of

the holding time. Accordingly, the sample results were qualified as estimated "J" or estimated non-detect "UJ."

- **2011 Annual Fall (SDG 2110928048)**
  1. Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.
  2. Samples MA01MW001, MA02MW001D, FD-1, MWQ-23 and M114MW002 were analyzed after expiration of the analytical holding time. Laboratory results for this analyte in these samples were modified to estimate (J, UJ).

7.1.2.2 Blank Samples

- **2011 Annual Spring (SDG 211050426)**
  1. Measurable quantities of arsenic (total), cadmium (total), and manganese (total) were observed at a concentration less than the laboratory reporting limit (RL) in preparation blank sample MB944205. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
  2. Measurable quantities of antimony (total) and lead (total) were observed at a concentration less than the laboratory RL in one or more initial calibration blank/continuing calibration blank (ICB/CCB) samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
  3. A measurable quantity of (total) cadmium was observed at a concentration less than the laboratory RL in preparation blank sample MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

4. Measurable quantities of (total) arsenic, cadmium, copper, and manganese were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
5. Measurable quantities of arsenic (dissolved) and cadmium (dissolved) were observed at a concentration less than the laboratory RL in preparation blank sample MB944202. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
6. Measurable quantities of antimony (dissolved) and lead (dissolved) were observed at a concentration less than the laboratory RL in one or more ICB/CCB samples. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.
7. A measurable quantity of cadmium (dissolved) was observed at a concentration less than the laboratory reporting limit (RL) in preparation blank samples MB944905 and MB948869. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
8. Measurable quantities of cadmium (dissolved), copper (dissolved), manganese (dissolved), nickel (dissolved), and zinc (dissolved) were observed at a concentration less than the laboratory RL in the equipment rinsate sample. Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RL and associated to these blanks were modified to non-detect (U) at the corresponding RL.

- **2011 Semiannual Spring (SDG 211050608)**
  1. A measurable quantity of acetone was observed at a concentration less than the laboratory RL in preparation blank sample MB945623. The laboratory qualified associated results with "B." This qualifier was removed from non-detect values.

Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.

2. A measurable quantity of nitrite was observed at a concentration less than the laboratory RL in method blank sample MB456033. The laboratory result of this analyte in sample MA01MW001 was modified to non-detect (U) at the corresponding RL.
3. A measurable quantity of manganese (total) was observed at a concentration less than the laboratory RL in preparation blank sample MB944933. Laboratory results of this analyte in samples with measurable concentrations less than the laboratory RL and associated to this blank were modified to non-detect (U) at the corresponding RL.
4. Measurable quantities of total analytes barium (total), copper (total), manganese (total), and zinc (total) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.
5. Measurable quantities of barium (dissolved) and cadmium (dissolved) were observed at concentrations less than the laboratory RLs in preparation blank sample MB944905 (dissolved). Laboratory results of these analytes in samples with measurable concentrations less than the laboratory RLs and associated to this blank were modified to non-detect (U) at the corresponding RL.
6. A measurable quantity of barium (dissolved) was observed at a concentration less than the laboratory RL in a bracketing continuing calibration blank (CCB). The barium (dissolved) result in sample EB1 was modified to non-detect (U) at the RL.
7. Measurable quantities of aluminum (Dissolved), arsenic (Dissolved), cadmium (Dissolved), copper (Dissolved), and zinc (Dissolved) were observed at concentrations less than the laboratory RLs in equipment rinsate sample EB1. Laboratory results of field samples from this delivery group with measurable concentrations of these analytes less than the laboratory RLs were modified to nondetect (U) at the corresponding RLs.

- **2011 Annual Fall (SDG 2110928048)**
  1. An estimate concentration of acetone was reported in method blank sample MB992648. This analyte was not detected in samples associated with this method blank. No qualifications were necessary based on this observation.
  2. Estimate concentrations of acetone and methylene chloride were reported in trip blank sample TB-5. Laboratory results of these analytes in field samples associated to this blank reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.
  3. Estimate concentrations of acetone and methylene chloride were reported in equipment rinsate blank sample EB-1. An estimate concentration of acetone was reported in trip blank sample TB-6. Laboratory results of these analytes in field samples associated to these blanks reported with estimate concentrations were modified to non-detect (U) at the corresponding RL.
  4. An estimate concentration of sodium (total) was observed in method blank (MB) sample MB992251. No estimate concentrations of this analyte were reported in samples associated with this preparation blank. No result qualifications were necessary.
  5. Estimated concentrations of sodium (total) were observed in the CCBs bracketing field samples MA01MW001, MA02MW001D, MWQ-23, MA01-MW004 and MA01-MW002. No estimated concentrations of this analyte were reported in these samples. No result qualifications were necessary.
  6. An estimate concentration of barium (total) was observed in preparation blank MB993097. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
  7. An estimate concentration of silver (total) was observed in the CCB sample following the analyses of samples M114MW004, EB-1, M114MW002 and M114MW003. The laboratory result for this analyte in sample EB-1 was modified to non-detect (U) at the RL.
  8. Estimate concentrations of manganese (total), nickel (total), and zinc (total) were reported in equipment rinsate blank sample EB-1. The laboratory results for

manganese in samples M114MW002 and M114MW003 and nickel in sample M114MW002 were modified to non-detect (U) at the RL.

7.1.2.3 Surrogate Compounds

- **2011 Annual Spring (SDG 211050426)**

  In accordance with the updated *Ground Water Monitoring Project Work Plan* (Trinity Analysis & Development Corp, 2011) VOCs and explosives are not part of the required analytical suite for Annual wells.

- **2011 Semiannual Spring (SDG 211050608)**

  Surrogate recoveries for all VOC and explosive samples were within evaluation criteria.

- **2011 Annual Fall (SDG 2110928048)**

  Recovery of the surrogate analyte in samples MWQ-23, MA01-MW002, M114MW002 and, M114MW003 exceeded lower acceptance criteria. The laboratory noted that re-extraction and analyses were performed on samples M114MW002 and M114MW003 with similar performance. Samples MWQ-23 and MA01-MW002 were not re-processed as the preparation holding time had expired. The laboratory reported the results for the target analytes for these samples as non-detect estimate; qualified with "UJ." No further qualification of these results was necessary.

7.1.2.4 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- **2011 Annual Spring (SDG 211050426)**

  All LCS/LCSD QC samples were within evaluation criteria.

- **2011 Semiannual Spring (SDG 211050608)**

  Recovery of target analyte HMX in the LCS/LCSD from preparation batches 455907 and 456405 exceeded lower acceptance criteria. The laboratory results for this analyte in samples from these preparation batches were modified to non-detect estimate (UJ). The laboratory qualified these results with a "Q." This qualifier was removed during the validation review.

- **2011 Annual Fall (SDG 2110928048)**

  All LCS/LCSD QC samples were within evaluation criteria.

7.1.2.5 Field Duplicate Analysis

Field duplicate sample pair results were within evaluation criteria (25 percent relative percent difference [RPD] or within ±two times the RL if either the sample or duplicate are less than five times the RL) for VOCs, and explosives duplicate sample pairs. Some metals parameters did not meet the field duplicate criteria. Analytical results for the field duplicate sample pairs are presented in the table below.

Field Duplicate Analysis

Chemical Name	Units	2011 Semiannual Spring (SDG 211050608)				2011 Annual Spring (SDG 211050426)							2011 Annual Fall (SDG 2110928048)		
		M114MW001	Duplicate	RPD		MWQ-5	Duplicate	RPD	MWQ-20	Duplicate	RPD		MAO2MW001D	Duplicate	RPD
		Result	Result			Result	Result		Result	Result			Result	Result	
Aluminum	ug/L	60	64.5	7.2		60	60	0.0	261	285	8.8		60	78.9	27.2
Antimony	ug/L	4.03	4.03	0.0		4.03	4.03	0.0	20.3	4.8	123.5		3.98	3.98	0.0
Nickel	ug/L	19.7	20.7	5.0		0.96	0.96	0.0	0.96	0.96	0.0		1.43	1.82	24.0
Aluminum (Dissolved)	ug/L	77.6	60	25.6		60	60	0.0	60	60	0.0		60	60	0.0
Antimony (Dissolved)	ug/L	4.03	4.03	0.0		4.74	4.03	16.2	6	4.33	32.3		3.98	3.98	0.0
Arsenic (Dissolved)	ug/L	2.74	2.53	8.0		7.43	8.16	9.4	3.95	2.53	43.8		3.49	3.85	9.8
Nickel (Dissolved)	ug/L	19.1	19.6	2.6		0.96	0.96	0.0	0.96	0.96	0.0		2.14	1.58	30.1
Chromium VI	ug/L	2.8	2.8	0.0		2.8	2.8	0.0	2.8	2.8	0.0		3.3	6	58.1

7.1.2.6 Matrix Spike/Matrix Spike Duplicate Analysis

The MS/MSD recoveries for inorganic compounds (calcium, magnesium, and sodium) with sample concentrations greater than four times the matrix spike concentration did not require evaluation or qualification. The data review guidelines established in the QAPP state that organic data (mercury) will not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of data was required. MS/MSD recoveries and RPDs that were outside control limits are listed in the following table.

Recovery of Cyanide in the matrix spike fortifications of samples MWQ-10 and MWQ-14 exceeded lower acceptance criteria. All sample results were non-detect and therefore qualified as estimated "UJ."

Recovery of numerous explosives analytes in the matrix spike and matrix spike duplicate

fortifications of parent sample MA01MW001 exceeded upper acceptance criteria. No measurable quantities of these target analytes were observed in field samples and recovery of these analytes in the associated LCS and LCSD sample were within acceptance criteria. No result qualifications were necessary.

MS/MSD Summary

Parameter	Limits		2011 Semiannual Spring (SDG 211050608)			2011 Annual Spring (SDG 211050426)									2011 Annual Fall (SDG 2110928048)		
			MAO1MW001			MWQ-10				MWQ-14					MAO2MW001D		
	Min	Max	%MS Rec.	%MSD Rec.	RPD	%MS Rec.	%MSD Rec.	RPD		%MS Rec.	%MSD Rec.	RPD			%MS Rec.	%MSD Rec.	RPD
1,3,5-Trinitrobenzene	65	140	139.4	**148.7**	6.5	na	na	na		na	na	na			86.9	72.1	18.7
2,4,6-Trinitrotoluene	50	145	141.0	**147.6**	4.5	na	na	na		na	na	na			73.6	61.9	17.3
2,4-Dinitrotoluene	60	135	**147.2**	**154.3**	4.7	na	na	na		na	na	na			91.6	73.2	22.4
2,6-Dinitrotoluene	60	135	**153.9**	**162.5**	5.5	na	na	na		na	na	na			80.2	60.9	27.5
2-Nitrotoluene	45	135	**188.6**	**195.9**	3.8	na	na	na		na	na	na			72.5	60.8	17.6
3-Nitrotoluene	50	130	**157.1**	**164.1**	4.4	na	na	na		na	na	na			63.2	**46.9**	29.5
4-Amino-2,6-dinitrotoluene	55	155	142.6	151.8	6.2	na	na	na		na	na	na			63.1	**55.0**	13.7
4-Nitrotoluene	50	130	**163.9**	**171.5**	4.5	na	na	na		na	na	na			58.7	**44.3**	28.0
Calcium	80	120	90.0	100.0	10.5	**128.0**	116.0	9.8		**192.0**	**210.0**	9.0			**126.0**	98.0	25.0
Calcium	80	120	106.0	**64.0**	49.4	**56.0**	**126.0**	76.9		**178.0**	**164.0**	8.2			**202.0**	**208.0**	2.9
HMX	80	115	**124.0**	**131.0**	5.5	na	na	na		na	na	na			102.0	81.3	22.6
m,p-Xylene	75	130	**196.0**	**187.8**	4.3	na	na	na		na	na	na			**207.8**	**203.8**	1.9
Magnesium	80	120	88.0	**68.0**	25.6	**138.0**	116.0	17.3		**172.0**	**212.0**	20.8			**120.0**	**78.0**	42.4
Magnesium	80	120	82.0	**62.0**	27.8	**56.0**	**130.0**	79.6		**150.0**	**166.0**	10.1			**236.0**	**172.0**	31.4
Mercury	80	120	94.0	94.4	0.4	111.4	104.2	6.7		**79.6**	**76.2**	4.4			88.3	86.3	2.3
Mercury	80	120	91.6	94.4	3.0	109.8	104.2	5.2		**78.6**	81.4	3.5			84.9	86.1	1.4
Nitrobenzene	50	140	**155.7**	**159.2**	2.2	na	na	na		na	na	na			85.7	69.1	21.5
Sodium	80	120	**135.0**	**135.0**	0.0	101.0	103.5	2.4		**240.0**	**335.0**	33.0			**165.0**	**135.0**	20.0
Sodium	80	120	**160.0**	**-15.0**	241.4	88.0	98.0	10.8		**245.0**	**220.0**	10.8			**460.0**	**300.0**	42.1
Tetryl	20	175	**175.6**	**197.0**	11.5	na	na	na		na	na	na			45.4	32.3	33.7
Total Cyanide	80	120	93.4	95.0	1.7	**73.8**	**74.0**	0.3		**78.0**	**78.4**	0.5			98.6	98.2	0.4

7.1.3 Semiannual SWMU Ground Water Quality Network

This report represents the second complete Annual Water Quality Report for Melrose AFR. A summary of analytical and field data from the most recent sampling event is provided in Table 2, 3, and 4. Available historic data is summarized in Appendix C and includes parameter summary tables and trend plots. Laboratory analytical data is provided in Appendix D and Appendix E. Discussions provided below are based on data collected during the current reporting period.

7.1.3.1 SWMU 114

Ground water quality in the immediate vicinity of SWMU 114 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most representative. Of the analysis performed no VOCs, explosives, hexavalent chromium,

perchlorate, or cyanide were detected or were detected at concentrations below screening guidelines. A total of four parameters were detected above the ground water screening guidelines during the 2011 Annual reporting period. A summary of the exceedances of ground water screening guidelines is provided below:

SWMU 114														
						M114MW001		M114MW002		M114MW003		M114MW004	
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	<D.L.	78	78.8	<D.L.	63.6	67	<D.L.	<D.L.
					Sep-11	100	<D.L.	85.3	<D.L.	**200.0**	<D.L.	110	<D.L.
Chloride	**250**	250	---	---	May-11	**3,280**	---	**3,660**	---	**4,550**	---	**4,180**	---
					Sep-11	**3,060**	---	**3,130**	---	**3,920**	---	**3,970**	---
Sulfate	600	**250**	---	---	May-11	**2,140**	---	**2,130**	---	**2,460**	---	**2,110**	---
					Sep-11	**1,810**	---	**1,580**	---	**1,880**	---	**1,630**	---
TDS	1,000	**500**	---	---	May-11	**8,270**	---	**7,800**	---	**9,540**	---	**7,000**	---
					Sep-11	**7,640**	---	**7,610**	---	**9,870**	---	**9,500**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

The reported concentrations for chloride, sulfate, and TDS are higher than that of the background well (MWQ-23). The higher concentrations at SMWU-114 are attributed to increased "mixing" of the ground water with the underlying Chinle Formation. MWQ-23 provides an adequate representation of background groundwater quality, however in this location less "mixing" appears to occur with the Chinle Formation. The higher concentrations of chloride, sulfate, and TDS are not believed to be associated with past disposal activities. Aluminum was detected above the screening guidelines; however, it was below the screening criteria in the filtered samples.

7.1.3.2 SWMU 130

Ground water quality in the immediate vicinity of SWMU 130 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most representative. Of the analysis performed no VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were detected or were detected at concentrations below screening guidelines. A total of five parameters were detected above the ground water screening guidelines. A summary of the exceedances of ground water screening guidelines is provided

below:

SWMU 130															
						MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004	
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Aluminum	5000	**200**	3650	---	May-11	**276**	105	<D.L.	164	111	<D.L.	<D.L.	<D.L.
					Sep-11	84.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	May-11	<D.L.	<D.L.	**102**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					Sep-11	<D.L.	<D.L.	<D.L.	<D.L.	5.29	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	May-11	**651**	---	**473**	---	**537**	---	**269**	---
					Sep-11	**525**	---	**431**	---	**477**	---	**251**	---
Sulfate	600	**250**	---	---	May-11	**704**	---	**544**	---	**616**	---	**352**	---
					Sep-11	**564**	---	**514**	---	**524**	---	**329**	---
TDS	1,000	**500**	---	---	May-11	**1,980**	---	**1,780**	---	**1,760**	---	**1,110**	---
					Sep-11	**1,990**	---	**1,720**	---	**1,790**	---	**1,130**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

The reported concentrations of chloride, sulfate, and TDS are similar to background water quality concentrations (MWQ-23). Aluminum was detected above the screening guideline in MAO1MW001 during the Spring 2011 sampling event; however, the concentration was below the screening criteria in the filtered sample. Additionally, during the Fall 2011 sampling event the concentrations were below the screening criteria for the total and dissolved samples. Antimony was detected above the screening guideline in MAO1MW002 during the Spring 2011 sampling event; however, antimony was not detected in the filtered sample. Additionally, antimony was not detected in the total and dissolved samples during the subsequent Fall 2011 sampling event.

7.1.3.3 SWMU 131

Ground water quality in the immediate vicinity of SWMU 131 is in the Impact Area (mixing) flow system and thus comparison to the background ground water quality at MWQ-23 is most representative. Of the analysis performed no VOCs, explosives, hexavalent chromium, or cyanide were detected or were detected at concentrations below screening guidelines. A total of six parameters were detected above the ground water screening guidelines. A summary of the exceedances of ground water screening guidelines is provided below:

SWMU 131							
Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MAO2MW001D	
						Total	Dissolved
Manganese	200	**50**	876	---	May-11	**248**	**208**
					Sep-11	**209**	**188**
Selenium	**50**	50	183	50	May-11	**94.7**	**107**
					Sep-11	**117**	**132**
Chloride	**250**	250	---	---	May-11	**2,190**	---
					Sep-11	**1,640**	---
Sulfate	600	**250**	---	---	May-11	**2,130**	---
					Sep-11	**1,860**	---
TDS	1,000	**500**	---	---	May-11	**6,290**	---
					Sep-11	**5,620**	---
Perchlorate	---	---	---	**15**	May-11	**22.4**	---
					Sep-11	**23.8**	**19.6**

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

The reported concentrations for chloride, sulfate, and TDS are higher than that of the background well (MWQ-23). The higher concentrations at SMWU-131 are attributed to increased "mixing" of the ground water with the underlying Chinle Formation. MWQ-23 provides an adequate representation of background groundwater quality, however in this location less "mixing" appears to occur with the Chinle Formation. The higher concentrations of chloride, sulfate, and TDS are not believed to be associated with past disposal activities.

Manganese was detected above the screening guidelines in both the total and dissolved samples. Manganese was detected in the background well (MWQ-23) at a similar concentration, also exceeding the screening criteria. Selenium was reported present in monitoring well MAO2MW001D at a concentration ranging from 94.7 to 117 ug/L during the last year of sampling. The dissolved sample reported similar results. The total and dissolved manganese concentrations appear to be in line with historic data. Selenium was also reported at concentrations above applicable ground water standards during the Phase I RFI; however, due to a lack of selenium in overlying soil samples it was determined that the elevated selenium concentration was likely natural (Foster Wheeler 1996; Foster Wheeler 2003).

Perchlorate was reported present in monitoring well MAO2MW001D at a concentration of 22.4 and 23.8 µg/L, above the screening criteria of 15 µg/L. The recent results appear to be in the same range as historic data (between 19.0 and 23.9 µg/L). During the Fall 2011 sampling event a dissolved perchlorate sample was also collected from MAO2MW001D. The total results (23.8 ug/L) were comparable to the dissolved results (19.6 ug/L). The results of a recent study of wells located throughout the High Plains indicate that perchlorate may be naturally occurring. The results of the study strongly indicate a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No evidence of specific activities associated with a release or discharge of perchlorate is noted, but due to Melrose AFB being an active test facility range it cannot be completely precluded however unlikely. The reported concentrations of perchlorate in monitoring well MAO2MW001D are well within the background range discussed in the recent study (Rajagopala, et. al,. 2006).

7.1.4 Annual Ground Water Quality Network

Ground water quality in the vicinity of the Mesa and Regional Flow System is similar to background ground water quality (MWQ-7 and MWQ-10). Of the analysis performed no VOCs, explosives, hexavalent chromium, perchlorate, or cyanide were detected or were detected at concentrations below screening guidelines. A total of eight parameters were detected above the ground water screening guidelines. A summary of the exceedances of ground water screening guidelines is provided in the tables below:

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-2		MWQ-3		MWQ-4		MWQ-5		MWQ-6		MWQ-7		MWQ-10	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	75	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	5.7	<D.L.	<D.L.	5.07	<D.L.	4.74	<D.L.	<D.L.	<D.L.	5.98	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	11	9.1	8.9	8.9	7.0	5.7	5.3	8	<D.L.	<D.L.	8.9	9.7
					May-11	<D.L.	3	13.5	15.9	11	10.5	9.27	7.43	10.2	7.16	3.8	8.35	8.34	7.83
Iron	1000	**300**	2560	---	Jan-10	320	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	56	25	230	<D.L.	<D.L.	<D.L.
					May-11	52.8	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Manganese	200	**50**	876	---	Jan-10	420	430	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	0.91	1.0	1.6	0.92	1.3	1.2
					May-11	82.9	50.1	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Chloride	**250**	250	---	---	Jan-10	3,300	---	59	---	20	---	19	---	13	---	51	---	20	---
					May-11	3,310	---	68	---	18	---	22	---	21	---	59	---	29	---
Sulfate	600	**250**	---	---	Jan-10	1,400	---	140	---	66	---	92	---	72	---	160	---	96	---
					May-11	1,350	---	150	---	59	---	91	---	86	---	156	---	61	---
TDS	1,000	**500**	---	---	Jan-10	6,800	---	470	---	380	---	420	---	360	---	540	---	380	---
					May-11	7,120	---	430	---	300	---	374	---	352	---	480	---	390	---

Analyte	WQCC (NMAC Section 20.6.2.3103)	USEPA Drinking Water Maximum Contaminant Levels (May 2010)	NMED SSLs - Tapwater Screening Levels (Dec 2009)	Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)	Sampling Event	MWQ-14		MWQ-18		MWQ-19		MWQ-20		MWQ-21		MWQ-22		MWL-6	
						Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Aluminum	5000	**200**	3650	---	Jan-10	<D.L.	<D.L.	**3200**	<D.L.	64	<D.L.	38	<D.L.	**2500**	<D.L.	**560**	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	**153.0**	<D.L.	72.4	<D.L.	**261**	<D.L.	**1100**	**272**	<D.L.	<D.L.	**69.7**	<D.L.
Antimony	---	**6**	14.6	6.0	Jan-10	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
					May-11	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	**20.3**	**6**	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.
Arsenic	100	**10**	0.448	10	Jan-10	<D.L.	<D.L.	9.4	4.7	6.3	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	<D.L.	5.800	<D.L.
					May-11	<D.L.	3.99	6.33	7.34	<D.L.	3.75	<D.L.	3.95	6.1	9.41	<D.L.	<D.L.	5.89	3.95
Iron	1000	**300**	2560	---	Jan-10	<D.L.	<D.L.	**1900**	<D.L.	**2300**	<D.L.	63	<D.L.	**1400**	<D.L.	**850**	<D.L.	**1100**	<D.L.
					May-11	<D.L.	<D.L.	168	<D.L.	**2820**	**2590**	241	71.1	**669**	127	147	142	**7450**	**566**
Manganese	200	**50**	876	---	Jan-10	0.75	<D.L.	40	1.3	**450**	**450**	**770**	**760**	37	2.6	**150**	**150**	**180**	**160**
					May-11	**13.8**	<D.L.	5.27	9.28	**436**	**432**	**967**	**934**	19.9	<D.L.	**426**	**440**	**265**	**158**
Chloride	**250**	250	---	---	Jan-10	**630**	---	35	---	**1,800**	---	**5,500**	---	120	---	**770**	---	100	---
					May-11	**715**	---	40		**2,050**	---	**6,010**	---	121	---	**342**	---	107	---
Sulfate	600	**250**	---	---	Jan-10	**950**	---	110	---	**1,500**	---	**1,600**	---	**570**	---	**420**	---	130	---
					May-11	**994**	---	110		**1,530**	---	**1,630**	---	**476**	---	233	---	216	---
TDS	1,000	**500**	---	---	Jan-10	**2,500**	---	460	---	**5,100**	---	**10,000**	---	**1,300**	---	**1,800**	---	470	---
					May-11	**2,670**	---	**520**	---	**5,500**	---	**11,900**	---	**900**	---	**936**	---	**658**	---

Red indicates exceedance, not necessarily a water quality violation; Underscored value indicates estimated result between MDL and RL; <D.L. indicates value below detection limit; --- indicates parameter not analyzed for.

Although water quality data from the three deep wells installed in the Chinle Formation is summarized above, they are excluded from the discussion below based on the naturally elevated concentrations of TDS, chloride, sodium, etc.

Chloride, manganese, sulfate, and TDS commonly exceed ground water screening guidelines in monitoring wells in the Annual Ground Water Quality Network with more elevated concentrations observed in MWQ-19 and MWQ-21. Monitoring wells MWQ-19 and MWQ-21 are installed deeper than most area supply wells and are installed to a depth near the base of the Ogallala Formation where mixing with ground water from the Chinle Formation may be occurring, thus degrading water quality. Background water quality (MWQ-7 and MWQ-10) generally has lower concentrations of chloride, manganese, sulfate, and TDS. The high variability of water quality, with respect to chloride, manganese, sulfate, and TDS appears to be attributable to variable degrees of "mixing" with ground water from the underlying Chinle Formation

Aluminum (total) has been detected in two of the 14 wells sampled during the 2011 Annual sampling event at concentrations above the screening criteria. However, analysis for aluminum (dissolved) has been less than the screening criteria.

The only exceedance for antimony is in MWQ-20, which as previously discussed has been

excluded from this discussion based on its installation in the Chinle formation. The elevated antimony concentration appears anomalous when compared to historic data.

Arsenic was reported present in supply wells MWQ-3, MWQ-4, and MWQ-6 at concentrations of 13.5, 11, and 10.2 ug/L respectively, all in excess of screening guideline of 10 µg/L. The concentration of 13.5 ug/L is consistent with historic data which ranges from 9.1 to 11.5 ug/L. The results from MWQ-4 and MWQ-6 while slightly higher are not inconsistent with historic data.

Iron (total) has been detected at concentrations above the screening criteria in several wells throughout the network. However, analysis for iron (dissolved) has typically been less than the screening criteria, with a few exceptions.

Perchlorate has been detected throughout the Annual Ground Water Quality Network during previous sampling events at concentrations ranging from less than one to 11.0 µg/L. Perchlorate concentrations in the Annual Ground Water Quality Network have been less than the screening criteria of 15 µg/L. No apparent trend exists at this time but will be monitored over time. However, as previously discussed perchlorate may be naturally occurring at concentrations typically less than 4 µg/L with some areas impacted by concentrations as high as 200 µg/L (Rajagopalan, et al., 2006).

Ground water quality in the Annual Ground Water Quality Network is generally good and does not appear to have been degraded due to activities in the Impact Area.

7.2 Ground Water Elevation, Gradient and Flow Velocity

A comprehensive round of water levels was collected from the Semiannual SWMU Ground Water Monitoring Network and Annual Ground Water Monitoring Network by TRINITY between May 3, 2011 and May 16, 2011 (Spring 2011 Sampling Event) and September 26, 2011 and October 3, 2011 (Fall 2011 Sampling Event). Recent and historic ground water elevations and trends are summarized in Table 5. Three ground water flow maps are presented, in chronological order, as part of this report:

1. Figure 5 - Median ground water flow direction based on data collected and analyzed by the USGS between 2002 and 2003 (Langman, 2004);
2. Figure 8 - Ground water flow direction based on data collected by TRINITY between May 3, 2011 and May 16, 2011.
3. Figure 9 - Ground water flow direction based on data collected by TRINITY between September 26, 2011 and October 3, 2011.

Water-level contours for the Southern High Plains Aquifer indicate two ground water flow systems – local and regional (Figures 5, 8, and 9). Locally, in southwest portions of Melrose AFR, ground water flows northeast from the Mesa to the Portales Valley. Ground water flow is southeast and east in the Portales Valley. This corresponds with the regional general flow direction for the Melrose AFR vicinity (Hart, 1985). A direct connection between the structural surface of the Chinle Formation confining unit and the direction of ground water flow is evident. Based on data from limited aquifer testing during the Phase I RFI, hydraulic conductivities in the Southern High Plains Aquifer of the Ogallala Formation at Melrose AFR ranged from 0.001 to 0.073 feet per day. The hydraulic conductivities for wells in the regional flow system have not been determined. The ground water gradient and flow velocities are summarized in the table below.

	gradient (ft/ft)		velocity (ft/y) [2]		
	local	regional	local		regional
			min	max	
1/1/2003 [1]	0.011	0.001	0.016	1.17	---
1/16/2009	0.015	0.001	0.022	1.60	---
10/25/2010	0.011	0.002	0.016	1.17	---
5/3/2011	0.014	0.002	0.020	1.49	---
9/26/2011	0.014	0.002	0.020	1.49	---

[1] The January 2003 ground water flow data is the "median altitude of water table" between 2002 and 2003 (Langman, 2004).
[2] Darcy's formula: V = KI/Ø where V = ground water velocity in ft/d; K = aquifer hydraulic conductivity in ft/d; I = ground water gradient in ft/ft; Ø = effective porosity. [3] The effective porosity is estimated to be 25 percent (Fetter, 1994).

It is not possible to calculate the flow velocity for ground water in the vicinity of the Portales Valley (regional flow system) due to a lack of data, i.e. hydraulic conductivities. Based on the limited data from the Phase I RFI and the increase in larger irrigation wells in the Portales Valley it would appear that the hydraulic conductivities increase to the north. However, as the hydraulic conductivities increase to the north the ground water gradient greatly decreases. Assuming a

hydraulic conductivity of 1.0 ft/day the flow velocity for ground water in the vicinity of the Portales Valley is likely to be on the same range as ground water in the local flow system.

7.3 Well Condition Inspection/Maintenance

The condition of the wells in the network, based on the most current inspection, is summarized in Table 1. As discussed, maintenance activities were undertaken during the Fall 2011 sampling event in conjunction with well abandonment activities. However, due to inclement weather it was not possible to reinstall the bollards at well cluster MWQ-18/19, MWQ-20, or MAO1MW004. However, fresh fill has been placed under all well pads with noted erosion. The bollards will be reinstalled during 2012 sampling events.

It had previously been noted by TRINITY that MWL-6 had been open and that it appeared that silt, and possibly cattle feces/hair had accumulated in the bottom of the well. Licensed well driller Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on May 17, 2011 to redevelop the well. The well was redeveloped by evacuating the well column with a steel bailer operated from a pump repair truck. The well was bailed for approximately one hour, until all silt/sediment had been removed from the bottom of the well case. The well was then pumped continuously by TRINITY until clear non-turbid water was produced. Subsequent to sampling activities the well head was properly secured. Additional wells previously identified as open were also properly secured.

In general, the condition of the Semiannual SWMU Ground Water Quality Network and Annual Ground Water Quality Network is adequate for ground water sampling activities.

7.4 Well Abandonment Activities

TRINITY and Wilson Drilling Co. (New Mexico Well Driller License No. 1152) mobilized to the site on October 5, 2011 to abandon the six wells (M117MW001, M117MW002, M117MW003, M117MW004, MAO2MW001S, and MAO3MW001). TRINITY had previously submitted request for and was in receipt of approved abandonment procedures from the New Mexico Office of the State Engineer. Monitoring well abandonment was conducted in

accordance with *NMED, Ground Water Discharge Permit, Monitoring Well Construction, and Abandonment Guidelines, Revision 1.0, July 2008* (New Mexico Environment Department, 2008) and *Well Driller Licensing; Construction, Repair and Plugging of Wells, adopted August 31, 2005*, 19.27.4 New Mexico Administrative Code (NMAC) (New Mexico Administrative Code, 2005).

The wells were abandoned by installing tremie pipe to the bottom of the well and tremie-grouting with neat Portland cement. The wells were filled with grout until overflow occurred, and then the tremie pipe was removed from the well. If the grout settled back into the well, it was continually topped off until the grout stabilized within a few feet of ground surface. Once grouting was complete, the well-pads, bollards, and protective metal casings were removed for proper disposal. The well pipe was cut-off just below ground surface and the land surface was restored as appropriate.

7.5 Geophysical Logging

The geophysical logging data collected is intended to enhance characterization of geology within the Ogallala and Chinle Formation at Melrose AFR. The geophysical logs are presented in Appendix F with the raw data. Four generalized cross-sections utilizing the logging data for determination of contacts have been constructed for Melrose AFR (Figure 10). It should be noted that our geologic interpretations are based almost primarily on the geophysical logging data. Supplemental data in the form of geologic surface interpretations by Langman (2004) were also utilized in the creation of the generalized cross sections. TRINITY has, to date, been unable to acquire the geologist's drilling logs for the three deep Chinle wells (MWQ-2, MWQ-20, and MWQ-22) at Melrose AFR.

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8.0 CONCLUSIONS/RECOMENDATIONS

Based on the information and data collected during the 2010 Ground Water Quality sampling events, the following conclusions were reached:

- Based on the recent well inventory conducted by TRINITY, the measured TD of the wells, low turbidities during sampling activities, etc. the current condition of the SWMU – Semiannual Ground Water Quality Network and Annual Ground Water Quality Network generally appears adequate for the collection of representative ground water samples.

- Two complete rounds of ground water levels were collected from wells within the SWMU – Semiannual Ground Water Quality Network and Annual Ground Water Quality Network during the Semiannual and Annual sampling events. Based on the ground water flow maps and evaluation of geochemical data collected by TRINITY, the hydrogeological conceptual site model posed by the USGS in which three separate flow systems have been identified has been further strengthened. The USGS identified three sources of different water in the immediate vicinity of the Melrose AFR:

  (1) local flow system near the Mesa and ephemeral channels,
  (2) local flow system in the Impact Area, and
  (3) regional flow in the Portales Valley.

  Water from near the Mesa and water in the regional flow system in the Portales Valley were determined to be of somewhat similar quality. Based on the USGS findings, ground water in the vicinity of the Impact Area on Melrose AFR may possibly be mixing with water from the Chinle Formation (Mesa and Regional Flow System).

- Several wells are currently being utilized for the collection of water levels but have not been surveyed; these wells include MWL-11, MWQ-11, MWL-12, MWQ-12, and MWQ-13. The addition of these wells to ground water flow determinations would be beneficial.

- A total of 14 wells were sampled during the Spring 2011 Annual Ground Water Quality sampling. Ten wells were sampled during the Semiannual Ground Water Quality sampling event during the Spring and Fall 2011 sampling events. The ground water samples were submitted to the laboratory for the following analyses:
  - *Semiannual*: VOCs, explosives, perchlorate, metals (total & dissolved), hexavalent chromium, cyanide, mercury, nitrate, nitrite, chloride, sulfate, alkalinity, and TDS.
  - *Annual*: Perchlorate, metals (total & dissolved), hexavalent chromium, cyanide, nitrate, nitrite, chloride, sulfate, alkalinity, and TDS.

  Of all of the well samples and analyses performed during 2011, no VOCs, Explosives, Hexavalent Chromium, Cyanide, Mercury, Nitrate, or Nitrite were detected at concentrations above their respective screening criteria.

- MWQ-23 was previously proposed as a replacement background well for MWQ-8, which is dry. MWQ-23 has been sampled twice, during the Spring and Fall 2011 sampling events. The well appears to be an adequate background well for the SWMUs and Impact Area.

- Of the 24 metals that were analyzed in the ground water samples, only aluminum, antimony, arsenic, iron, manganese, and selenium, were detected at concentrations above a respective screening criterion.

- Aluminum was detected in two of the wells tested at concentrations exceeding the screening criteria in the samples for "total" analyses however the concentrations were less than the screening criteria for all samples for "dissolved" analyses. No apparent trend exists at this time but will be monitored over time.

- Antimony was detected in only two wells tested at a concentration exceeding the screening criteria in the samples for "total" analyses. In previous sampling events, antimony has never been detected above the screening criteria. Based on subsequent

testing and QA/QC results the reported antimony concentrations appear to be anomalous and will be tracked in future events.

- Arsenic was detected in three wells during 2011 ground water sampling at a concentration exceeding the screening criteria in the sample for "total" and "dissolved" analysis. The data appears consistent with historic data.

- Iron was detected in four of the wells tested at concentrations exceeding the screening criteria in the samples for "total" analyses however the concentrations were typically less than the screening criteria for all samples for "dissolved" analyses, with a few exceptions.

- Manganese (total) has been detected in four of the wells sampled during the 2011 ground water sampling at concentrations exceeding the screening criteria in the samples for "total" analyses. Manganese analytical results for "total" and "dissolved" were generally very similar. No apparent trend exists at this time but will be monitored over time.

- Perchlorate was reported present in only one monitoring well at a concentration slightly exceeding the screening criteria. However, perchlorate has been detected at low concentrations throughout the monitoring network. The results of a recent study of wells located throughout the High Plains of Texas and New Mexico indicate that perchlorate may be naturally occurring and strongly indicates a surface source for the perchlorate concentrations, likely atmospheric deposition in arid and semiarid areas where evaporative concentrations and unsaturated transport may occur (Rajagopalan, et al., 2006). No apparent trend exists at this time but will be monitored over time.

- Perchlorate was analyzed sing method EPA 6860; however, it was not possible to find an additional lab to analyze the split samples that utilized method 8260. Therefore the split sample was analyzed utilizing method EPA 6850, which has a slightly higher MDL.

- Selenium was reported present in only one monitoring well (MAO2MW001D) at a concentration exceeding the screening criteria. Selenium has been detected in this same well previously at concentrations above the screening criteria; however there does not

appear to be any discernable trend.

- During the Fall 2011 sampling event thallium was analyzed utilizing a MDL slightly higher than the screening guideline. Future testing will attempt to utilize a lower MDL.

- General water quality parameters of Chloride, Sulfate, and TDS were commonly detected across the Melrose AFR at concentrations exceeding their respective screening criteria, however were generally within the range of concentrations detected in the appropriate background ground water locations.

- "Low-flow" sampling techniques were previously proposed for several wells within the Annual Ground Water Quality Network that are used for cattle stock water supply and are installed within subsurface vaults. Upon further evaluation of the well construction details it has been determined that it is not possible to adjust the flow rate at the well head. Therefore, it was necessary to sample these wells by first evacuating a well volume and then collecting stabilization parameters.

- Based on review of the historical and recent 2011 ground water analytical data, the ground water beneath Melrose AFR does not appear to have been impacted by potential contaminants or activities associated with the SWMUs or activities associated with the Impact Area.

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FIGURES

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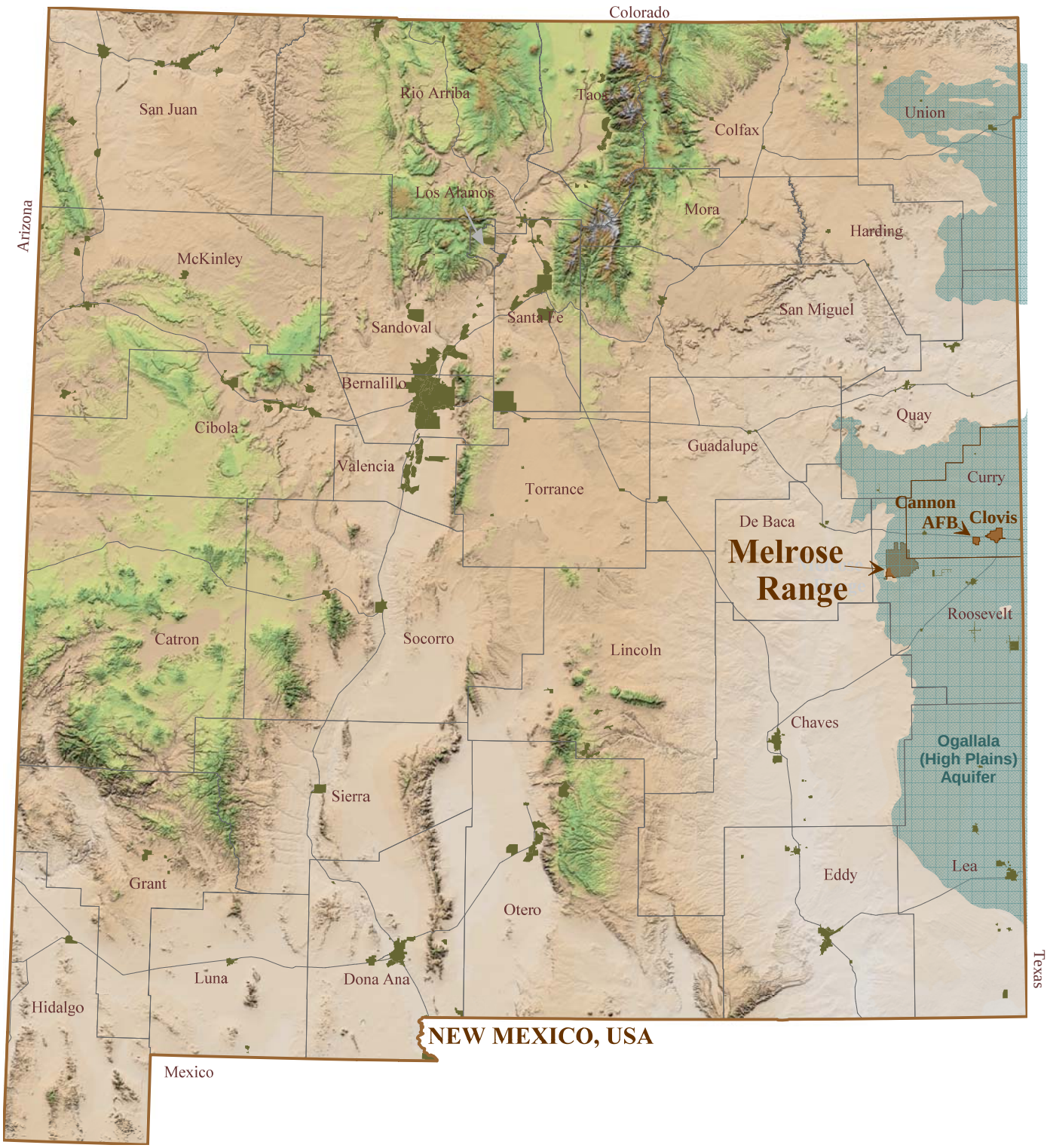

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Source files: New Mexico Resource Geographic Information System Program

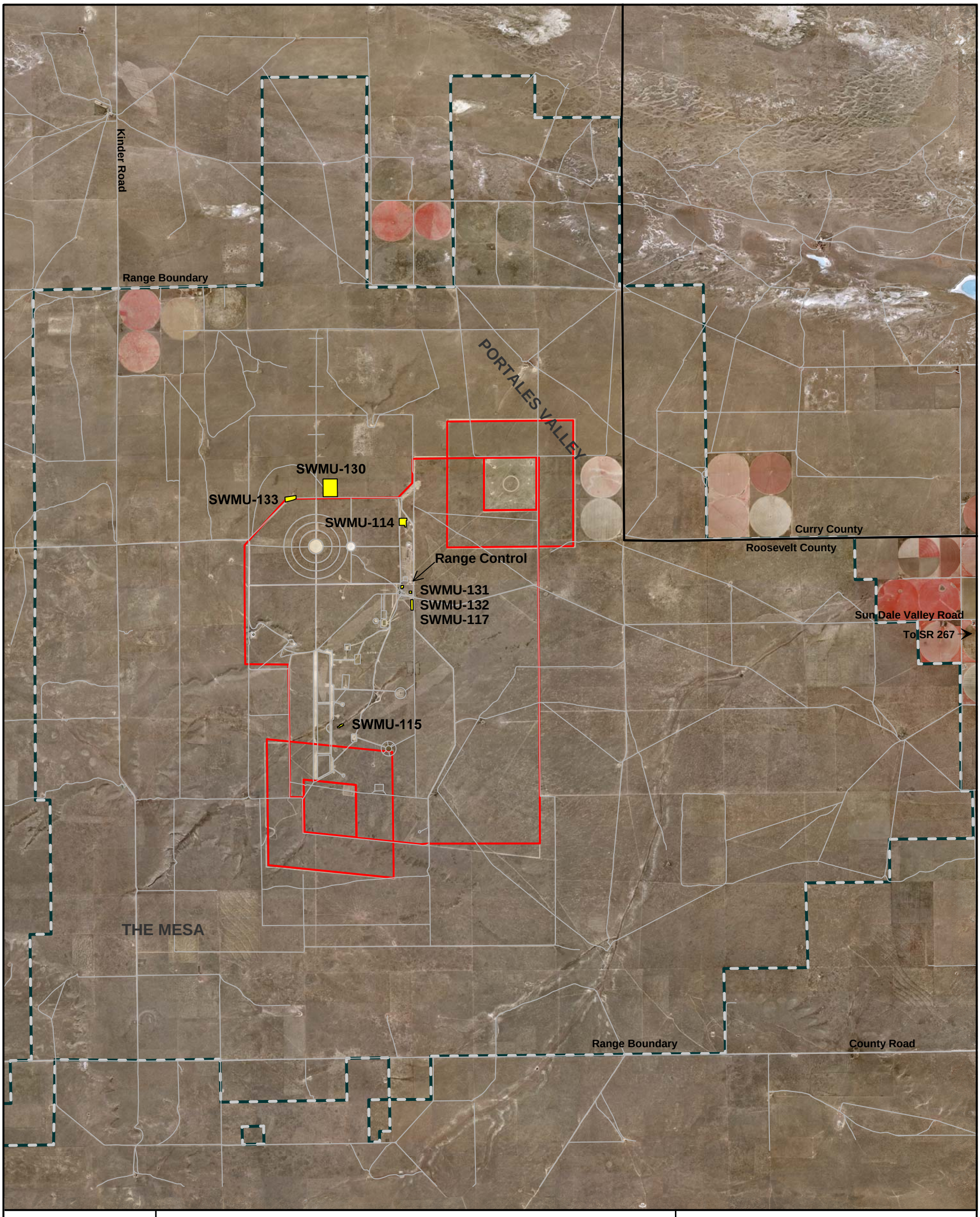
FIGURE 1

SITE LOCATION MAP

Melrose Air Force Range

Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.



Source: Digital data files; GeoBase/CAFB
Aerial photography flown by 3DI West for USAF, April, 2009

FIGURE 2

AERIAL OVERVIEW

Melrose Air Force Range

Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

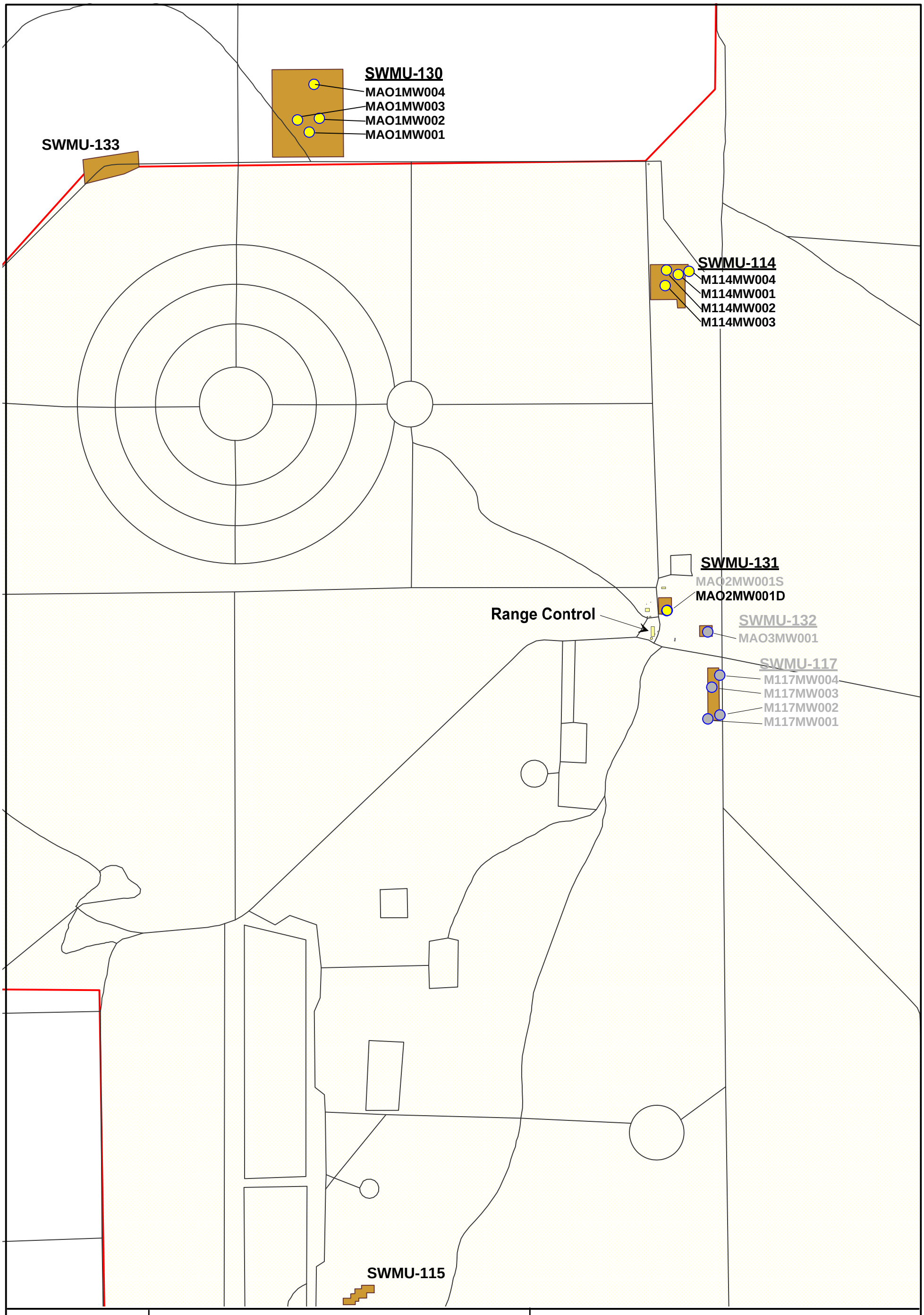


FIGURE 3
SEMIANNUAL SWMU MONITORING WELL NETWORK LOCATIONS

Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

LEGEND

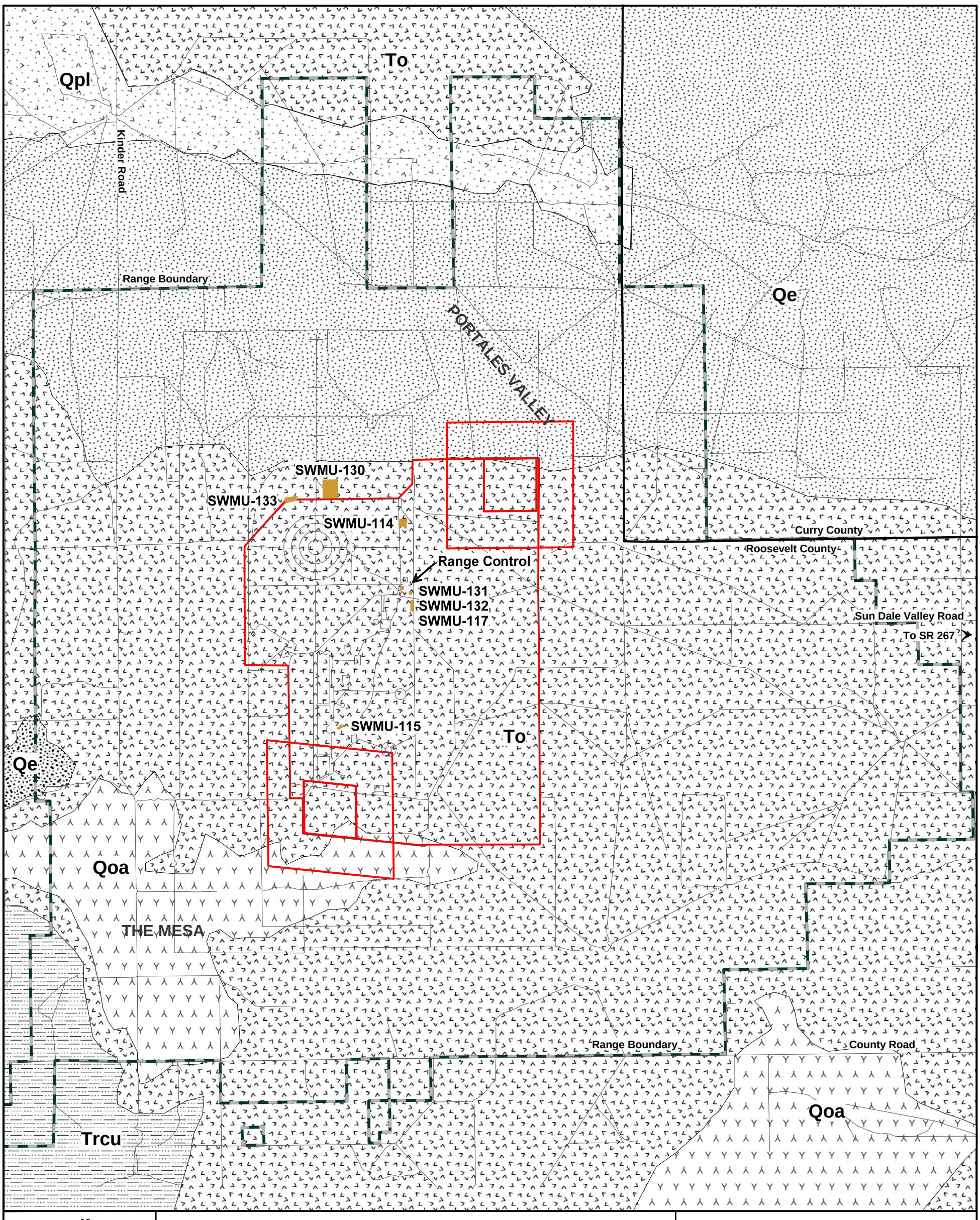


FIGURE 4
SURFACE GEOLOGY OF MELROSE AFR

Melrose Air Force Range

Roosevelt and Curry Counties, New Mexico

Well ID	1/1/2003		Well ID	1/1/2003
M114MW004	4□17□00		MW□□1□	4□1□□00
M□□1MW00□	4□□01□00		MW□□14	4□□1□00
M□□□MW001□	4□□□1□00		MW□□1	4□1□□00
MW□□□	4□171□00		MW□□□	4□1□□00
MW□□□	4□147□00		MW□□□	4□1□□00
MW□□4	4□1□0□00		MW□□4	4□171□00
MW□□□	4□17□□00		MW□□□	4□1□4□00
MW□□□	4□1□□□00		MW□□□	4□1□□□00
MW□□7	4□1□4□00		MW□□7	4□1□4□00
MW□□□	4□□□0□00		MW□□□	4□1□□□00
MW□□□	4□4□□1□00		MW□□□	4□1□□□00
MW□□10	4□□□□□00		MW□□10	4□□□1□00
MW□□11	4□□4□□00		MW□□11	4□□□□□00
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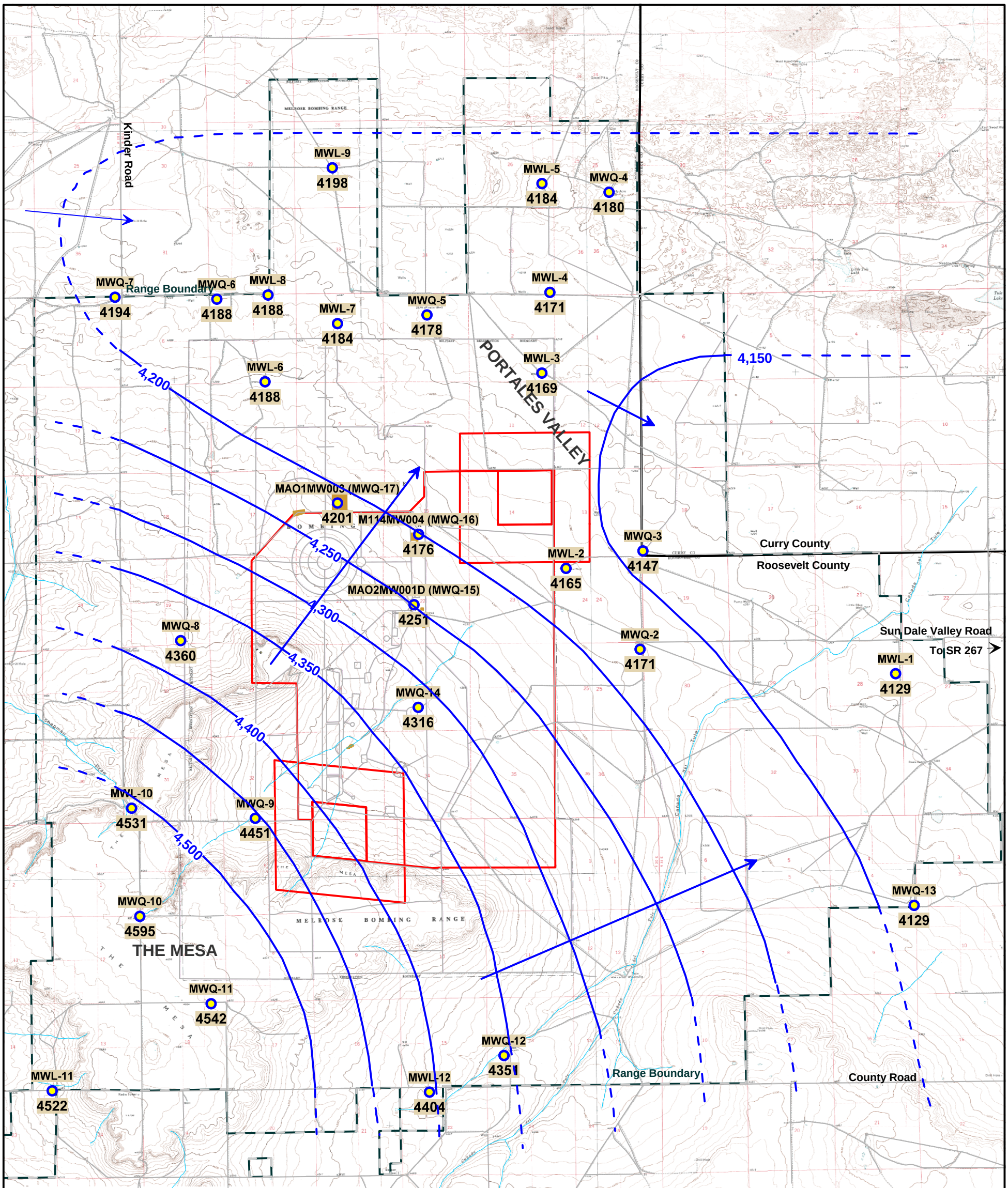

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Map is modeled after Figure 8 from USGS Scientific Investigations Report 2004-5158;
Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer,
Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03.
Ground water contours are in feet NAVD and reflect a median altitude of water table, 2002-2003

Line files from GeoBase/CAFB
USGS Topographic map from TerraServer

Solid Waste Management Unit

MWL-11 4522 — Water level measuring point, Elevation in feet above sea level (NAVD1988)

—4,500— Water Table Contour, Interval = 50 feet

Range Boundary

Road

Impact Area

FIGURE 5
MEDIAN GROUND WATER FLOW DIRECTION, 2002 to 2003 (USGS)

Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

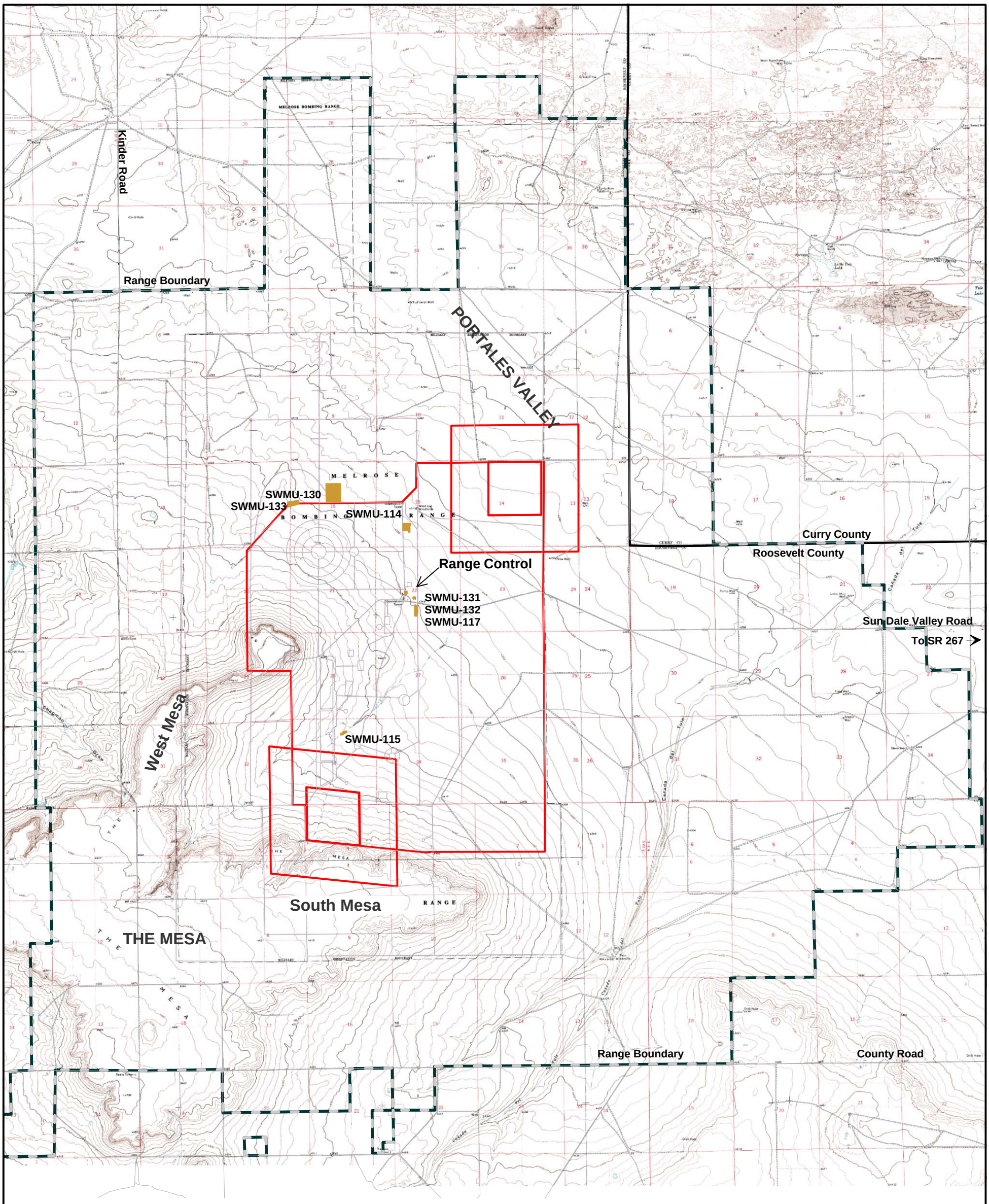


FIGURE 6
USGS TOPOGRAPHIC MAP OF SITE AND VICINITY
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

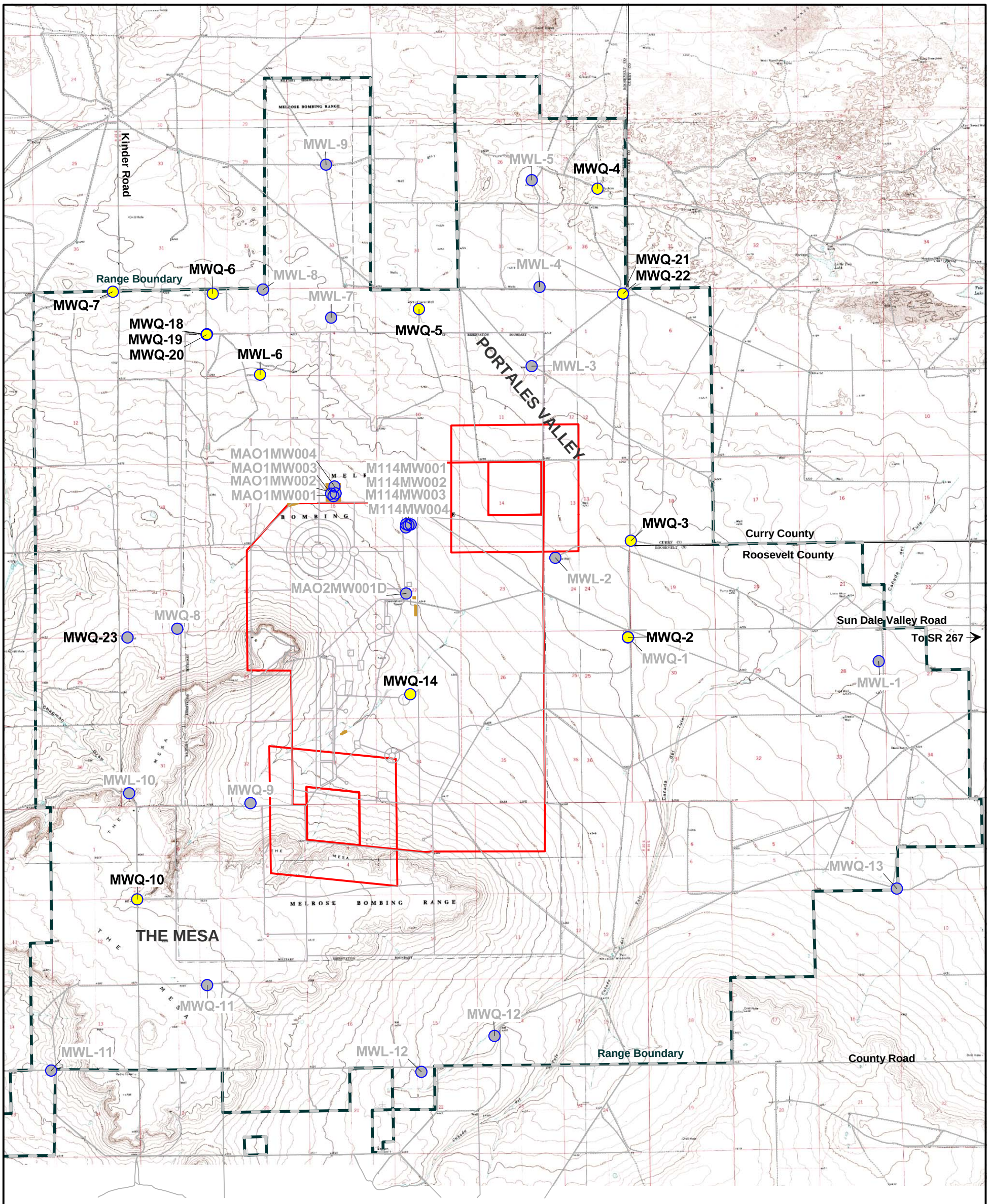
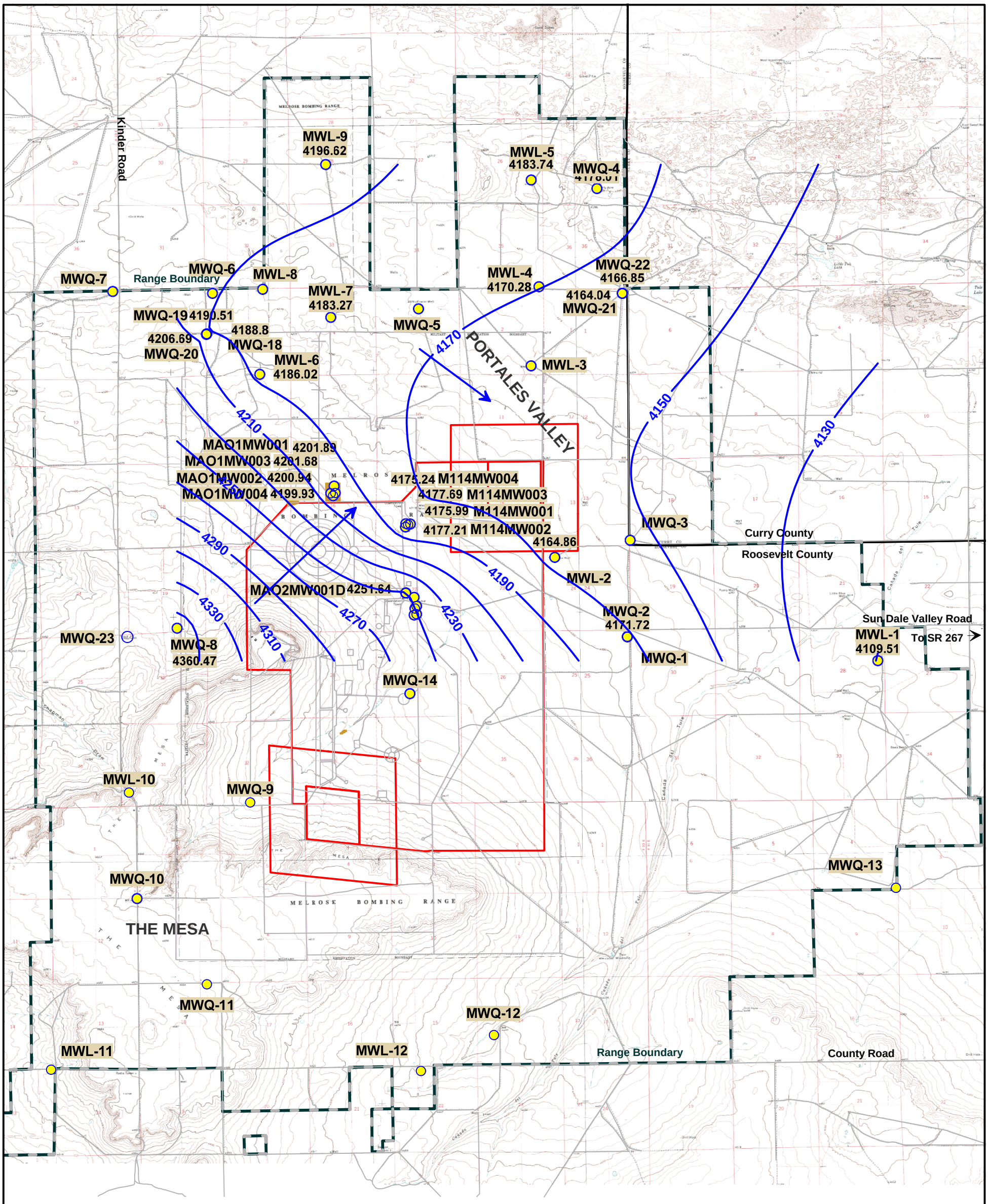


FIGURE 7
ANNUAL GROUND WATER MONITORING WELL NETWORK LOCATIONS
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Trinity Analysis and Development Corp.

Well ID	5/3/2011		Well ID	5/3/2011
M114MW001	417□□□□		MW□□1□	41□□□□
M114MW00□	4177□□1		MW□□1□	41□0□□1
M114MW00□	4177□□□		MW□□□0	4□0□□□
M114MW004	417□□□4		MW□□□1	41□4□04
M□□1MW001	4□01□□□		MW□□□□	41□□□□□
M□□1MW00□	4□00□□4		MW□□1	410□□□1
M□□1MW00□	4□01□□□		MW□□□	41□4□□□
M□□1MW004	41□□□□□		MW□□4	4170□□□
M□□□MW001□	4□□1□□4		MW□□□	41□□□74
MW□□□	4171□7□		MW□□□	41□□□0□
MW□□4	417□□01		MW□□7	41□□□□7
MW□□□	4□□0□47		MW□□□	41□□□□□



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Posted ground water elevations and contours in feet NGVD.
All water levels utilized for map development are posted.
Water levels collected by TRINITY during semiannual sampling event.

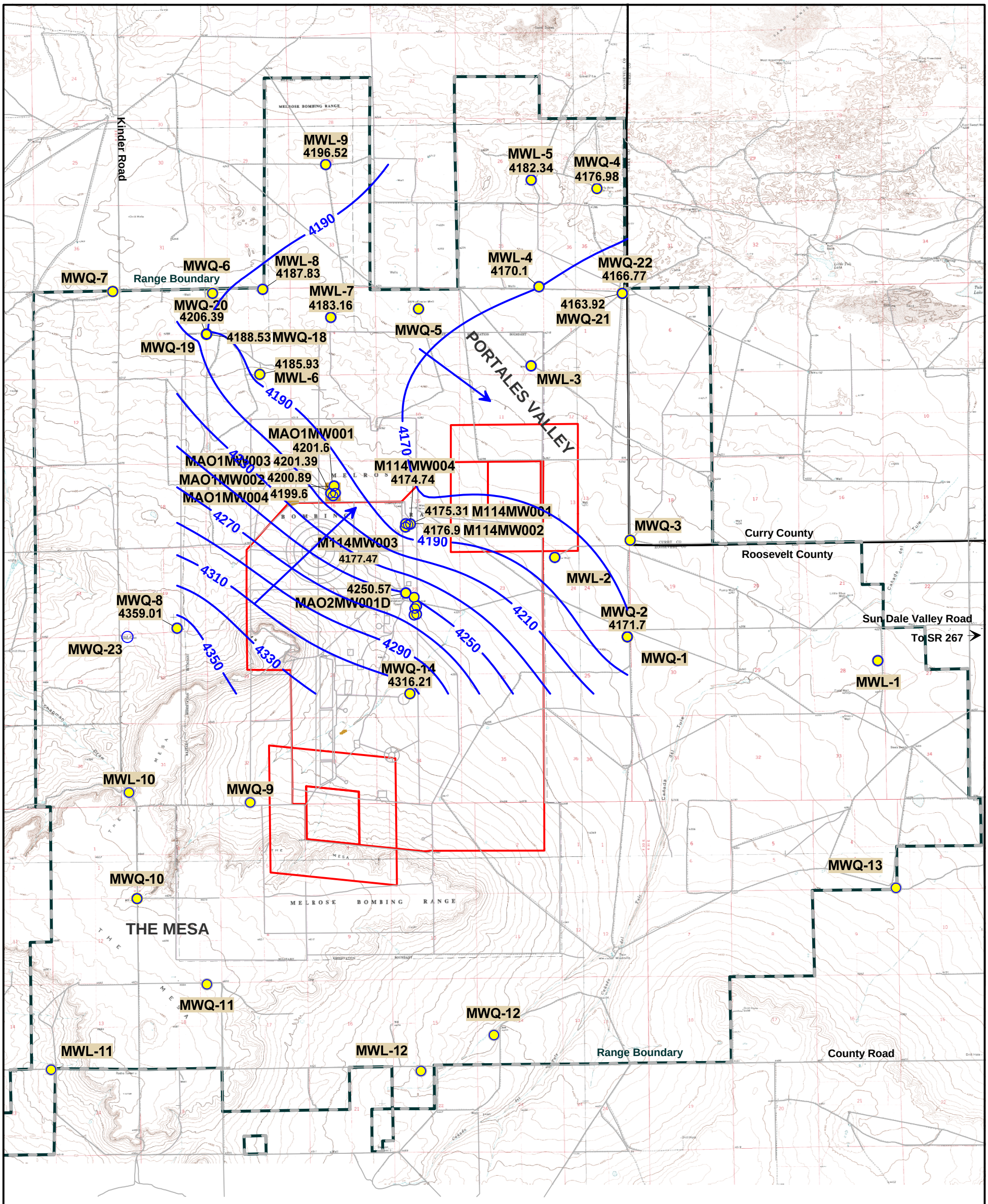
Data files from GeoBase/CAFB

USGS Topographic map from TerraServer

- Water level measuring point
- Environmental Restoration Area
- Impact Area
- Range Boundary
- Road

FIGURE 8
GROUND WATER FLOW MAP
5-3-2011 to 5-16-2011
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

Well ID	9/26/2011		Well ID	9/26/2011
M114MW001	417□□□1		MW□□14	4□1□□□1
M114MW00□	417□□□		MW□□1□	41□□□□□
M114MW00□	4177□47		MW□□□0	4□0□□□□
M114MW004	4174□74		MW□□□1	41□□□□□
M□□1MW001	4□01□□		MW□□□□	41□□77
M□□1MW00□	4□00□□□		MW□□4	4170□1
M□□1MW00□	4□01□□□		MW□□□	41□□□4
M□□1MW004	41□□□□		MW□□□	41□□□□□
M□□□MW001□	4□□0□□7		MW□□7	41□□□1□
MW□□□	4171□7		MW□□□	41□7□□□
MW□□4	417□□□□		MW□□□	41□□□□□
MW□□□	4□□□01			



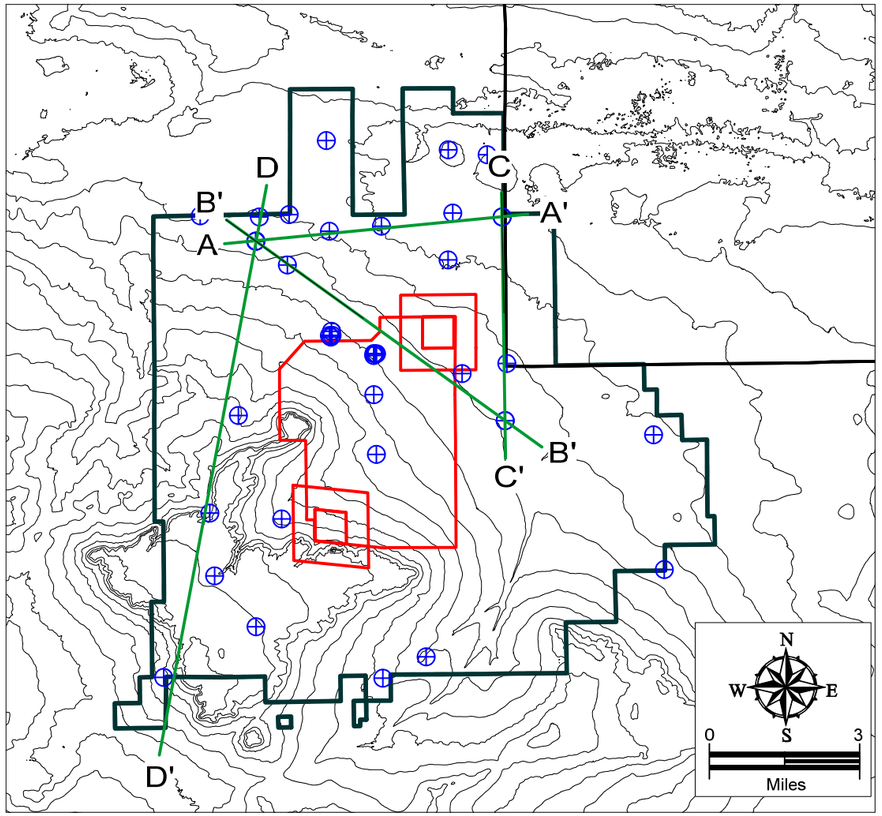
Posted ground water elevations and contours in feet NGVD.
All water levels utilized for map development are posted.
Water levels collected by TRINITY during semiannual sampling event.

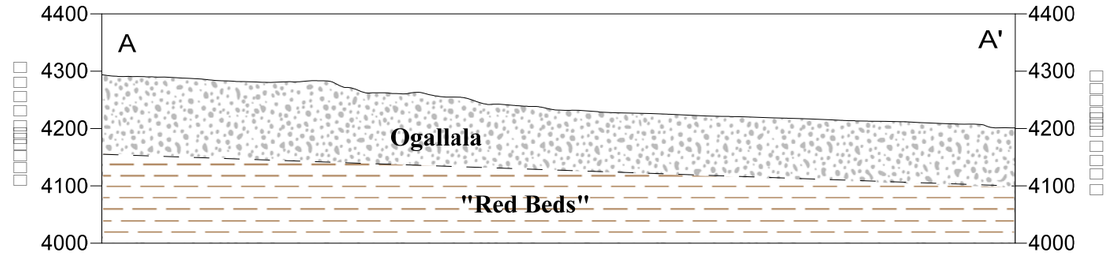
Data files from GeoBase/CAFB

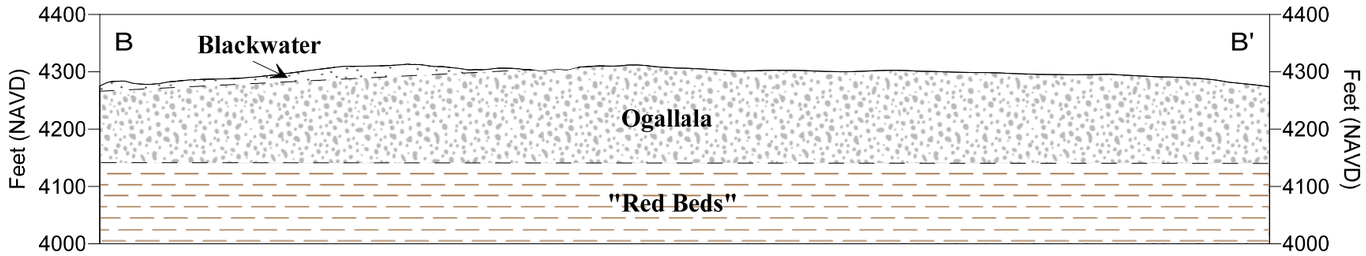
USGS Topographic map from TerraServer

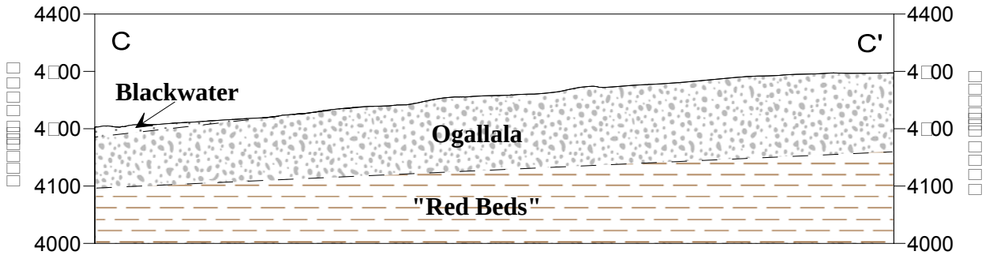
- Water level measuring point
- Environmental Restoration Area
- Impact Area
- Range Boundary
- Road

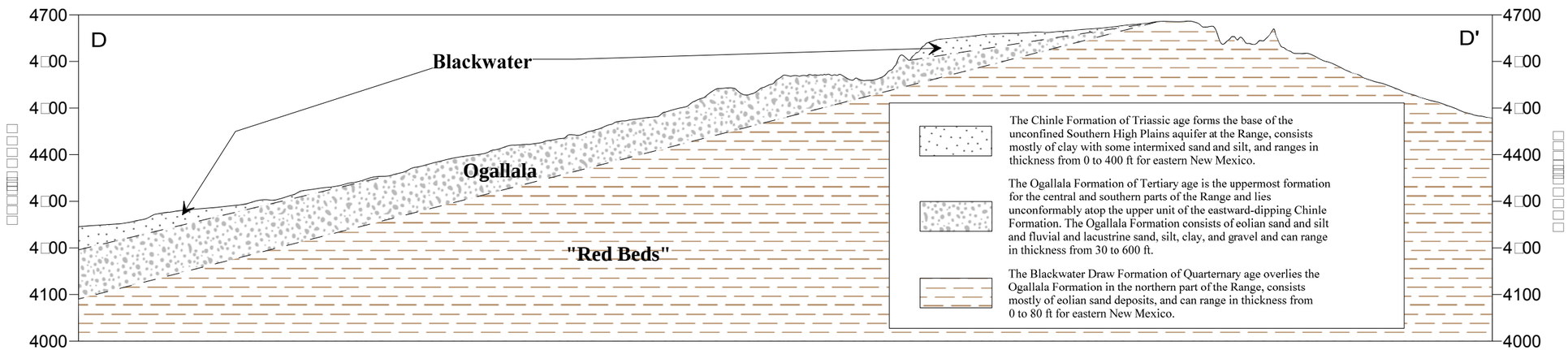
FIGURE 9
GROUND WATER FLOW MAP
9-26-2011 to October 3, 201
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico











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Vertical Scale
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Horizontal Scale

Vertical Exaggeration: 20x

SOURCES:

Digital data files; GeoBase/CAFB
Map is drawn after Figure 2 from USGS Scientific Investigations Report 2004-5158; Ground-Water Hydrology and Water Quality of the Southern High Plains Aquifer, Melrose Air Force Range, Cannon Air Force Base, Curry and Roosevelt Counties, New Mexico, 2002-03.

NOTES:

The Chinle Formation has various accepted names: Chinle Formation, Chinle Formation of the Dockum Group, and Chinle Group. All three names have been used for geologic description of areas in east-central New Mexico with usage dependent on locally identified units. Given a lack of identified units in the Range area, although this upper unit is possibly the Redonda Formation of the Chinle Group,"Chinle Formation" is used in this report. Locally, this formation is known as the "red beds."

These generalized cross sections are based on limited data from three wells that have been geophysically logged by TRINITY and by the geologic surface interpertations in Langman (2004).

FIGURE 10
GENERALIZED CROSS SECTIONS
Melrose Air Force Range
Roosevelt and Curry Counties, New Mexico

TABLES

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		Well No.	Common/Alternate Name	Location (State Plane)[1]		Top of Casing[1]	Installation Date	Well Type	Top of Screen	Screen Length	Total Well Depth	Well I.D.	Well Material	Pump	Aquifer Monitored	Status	Bollards	Bollard Condition	Protective Casing	Cap Type	Notes
				Easting (ft)	Northing (ft)	ft NAVD			ft bls	feet	ft bls	inches									
Semiannual-SWMU GW Quality Well Network	Water Quality	M114MW001	---	706828.76	1203539.43	4327.02	11-13-1995	MW	UNK	UNK	182.0	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW002	---	706681.53	1203596.64	4327.95	11-13-1995	MW	UNK	UNK	183.3	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW003	---	706663.4	1203400.28	4329.46	11-13-1995	MW	UNK	UNK	184.4	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		M114MW004	MWQ-16	706964.14	1203578.49	4324.78	11-06-1995	MW	UNK	UNK	184	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW001	---	702194.75	1205363.11	4344.47	10-17-1995	MW	UNK	UNK	162.4	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW002	---	702322.91	1205536.25	4343.38	10-18-1995	MW	UNK	UNK	157.0	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW003	MWQ-17	702048.36	1205516.65	4345.11	10-17-1995	MW	UNK	UNK	161.6	4.0	PVC	none	Ogallala	Active	3	Good	Steel w/locking lid	Slip Cap	---
		MAO1MW004	---	702258.79	1205963.65	4342.71	10-25-1995	MW	UNK	UNK	162.30	4.0	PVC	none	Ogallala	Active	3	1 Knocked Over	Steel w/locking lid	Slip Cap	---
		MAO2MW001D	MWQ-15	706657.01	1199306.53	4356.20	UNK	MW	UNK	UNK	184.5	4.0	PVC	none	Ogallala	Active	4	Good	Steel w/locking lid	Slip Cap	---
	Abandoned	M117MW001	---	707165.34	1197940.69	4359.75	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW002	---	707316.92	1197989.26	4357.67	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW003	---	707217.53	1198339.13	4355.55	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		M117MW004	---	707317.84	1198489.29	4353.88	UNK	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	3	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		MAO2MW001S	---	706662.83	1199311.35	4355.78	12-01-1995	MW	UNK	UNK	49.55	4.0	PVC	none	Ogallala	Aban.	4	Good	Steel w/locking lid	Slip Cap	Abandoned 10-5-2011
		MAO3MW001	---	707170.57	1199036.28	4350.11	12-01-1995	MW	UNK	UNK	~50	4.0	PVC	none	Ogallala	Aban.	0	NA	Flush Mount	J-Plug	Abandoned 10-5-2011
Annual - Ground Water Quality Well Network	Water Quality	MWQ-2	---	720371.84	1196505.26	4293.68	UNK	MW	UNK	UNK	241	4.0	PVC	none	Chinle	Active	4	Good	Steel w/ locking lid	J-Plug	---
		MWQ-3	Ashley Pump	720585.46	1202483.72	4271.04	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Unable to collect water levels due to electrical wires.
		MWQ-4	Solar Pump	718666.15	1224301.95	4203.10	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	None	Slip Cap	Solar powered stock pond well.
		MWQ-5	Telephone Pole	707560.13	1216914.7	4234.32	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Inactive	0	NA	Steel. Not accessible	Bolted	Old center pivot well. Unable to collect water levels.
		MWQ-6	Homestead	694797.07	1217958.43	4272.88	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Unable to collect water levels due to electrical wires.
		MWQ-7	Grider at Gate	688614.17	1218116.78	4262.61	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	Old center Pivot well. Plug rusted in-place.
		MWQ-10	Luce Jog	689876.48	1180475.36	4641.83	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	USGS previously lost water level tape in this well
		MWQ-14	EOD Pit	706872.77	1193064.49	4381.87	UNK	MW	UNK	UNK	124.9	4.0	PVC	UNK	Ogallala	Active	3	Good	Steel w/ locking lid	Slip Cap	
		MWQ-18	---	694418.66	1215440.95	4289.99	UNK	MW	UNK	UNK	152	4.0	PVC	none	Ogallala	Active	4	Knocked Over	Steel w/ locking lid	Slip Cap	Nested with MWQ-19
		MWQ-19	---	694418.39	1215440.76	4289.92	UNK	MW	UNK	UNK	230	4.0	PVC	none	Ogallala	Active					Nested with MWQ-18
		MWQ-20	---	694400.57	1215416.92	4289.97	UNK	MW	UNK	UNK	299.1	4.0	PVC	none	Chinle	Active	4	Knocked Over	Steel w/ locking lid	J-Plug	---
		MWQ-21	---	720196.71	1217791.7	4209.38	UNK	MW	UNK	UNK	66.3	4.0	PVC	none	Ogallala	Active	4	Good	Steel w/ locking lid	J-Plug	Nested with MWQ-22
		MWQ-22	---	720197.0	1217791.6	4209.3	UNK	MW	UNK	UNK	154.7	4.0	PVC	none	Chinle	Active					Nested with MWQ-21
		MWQ-23	---	---	---	---	UNK	Supply	UNK	UNK	UNK	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	New background well for Semi well network.
		MWL-6	Brackish Mill	697696.87	1212918.43	4304.61	UNK	Supply	UNK	UNK	136	6.0	Steel	none	Ogallala	Inactive	4	NA	None	Slip Cap	Old windmill; redeveloped May 2011
	Water Level	MWQ-1	---	720368.68	1196501.91	4293.56	UNK	MW	UNK	UNK	136.5	4.0	PVC	none	Ogallala	Active	0	NA	Steel w/ locking lid	J-Plug	Dry
		MWQ-8	Below Golf Ball	692465.84	1197219.06	4469.43	UNK	Supply	UNK	UNK	117	4.0	Steel	none	Ogallala	Inactive	0	NA	Concrete	None	Old windmill.
		MWQ 9	Hand Dug	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	~4 ft	none	none	Ogallala	Inactive	0	NA	None	Cap	Eroded hand dug well.
		MWQ-11	Parker House	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	Steel	DSP	Ogallala	Active	0	UNK	None	Bolted	---
		MWQ-12	Eroded Tank	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	UNK	UNK	Ogallala	UNK	0	UNK	None	Slip Cap	---
		MWQ-13	Hidden Mill	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	UNK	UNK	Ogallala	UNK	0	UNK	None	Cap	---
		MWQ-15	MAO2MW001D	MWQ-15 designation was used by USGS(2004). This is the same well identified as MA02MW001D.																	
		MWQ-16	M114MW004	MWQ-16 designation was used by USGS (2004) This is the same well identified as SWMU114MW004.																	
		MWQ-17	MAO1MW003	MWQ-17 designation was used by USGS (2004). This is the same well identified as MA01MW003.																	
		MWL-1	Mini-mute East	735885.38	1194920.68	4241.01	UNK	Supply	UNK	UNK	NA	6.0	Steel	DSP	Ogallala	Active	0	NA	Steel. Not accessible	Bolted	---
		MWL-2	NE100 Mill	715906.56	1201458.2	4293.23	UNK	Supply	UNK	UNK	NA	UNK	UNK	UNK	Ogallala	UNK	UNK	NA	UNK	UNK	Located in Impact Area. No access.
		MWL-3	Luce NW	714515.51	1213337.34	4226.98	UNK	Supply	UNK	UNK	NA	UNK	UNK	UNK	Ogallala	UNK	UNK	NA	UNK	UNK	Located in Impact Area. No access.
		MWL-4	Firebreak Fence	715034.08	1218237.96	4220.88	UNK	Supply	UNK	UNK	59.8	4.0	Steel	none	Ogallala	Inactive	0	NA	None	none	Cattle hair & feces in well
		MWL-5	Glass Log PVC	714598.14	1224854.29	4196.42	UNK	Supply	UNK	UNK	35.0	6.0	PVC	none	Ogallala	Inactive	0	NA	None	none	PVC stickup with no protection
		MWL-7	Fence Line Dip	702122.39	1216423.47	4258.3	UNK	Supply	UNK	UNK	108.90	6.0	Steel	none	Ogallala	Inactive	0	NA	None	Steel Slip Cap	Old windmill
		MWL-8	Davis Trap Mill	697908.54	1218187.51	4262.06	UNK	Supply	UNK	UNK	114	6.0	Steel	DSP	Ogallala	Inactive	0	NA	None	Pump	Cattle hair & feces in well
		MWL-9	Northern End	701866.16	1225896.17	4241.81	UNK	Supply	UNK	UNK	49.6	6.0	Steel	none	Ogallala	Inactive	0	NA	None	none	Old windmill
		MWL-10	Three Mills	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	Jack Pump	Old windmill
		MWL-11	Luce 480 Mill	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	Jack Pump	---
		MWL-12	County Road	UNK	UNK	UNK	UNK	Supply	UNK	UNK	UNK	6.0	Steel	UNK	Ogallala	Inactive	0	NA	None	UNK	---

[1] 15 Semiannual SWMU and 24 Annual Groundwater Quality Network wells were surveyed by Lydick, Inc., a professional surveyor licensed in the State of New Mexico, on January 14-16, 2009 as part of the initial annual groundwater sampling program. Land surveying was completed using the New Mexico East State Plane North American Datum (NAD) 83 and North American Vertical Datum (NAVD) 88 (adjusted) in decimal feet. All horizontal coordinates were measured to the nearest fiftieth of a foot. All vertical coordinates were measured to the nearest tenth of a foot.
Wells in gray scale are not sampled as part of the Annual or Semiannual Ground Water Quality Network. These wells are utilized for ground water levels or are scheduled for abandonment.
DSP = dedicated submersible pump
MW = monitoring well
NA = not applicable

TABLE 1
WELL CONSTRUCTION DETAILS

MELROSE AIR FORCE RANGE

								SWMU-114							
	Test Site ID							M114MW001		M114MW002		M114MW003		M114MW004	
LAB INFO	Lab Sample No.							21105060815	21110010502	21110010505	21105060805	21105060807	21110010506	21105060802	21110010501
	Sample Date							5/9/2011	9/30/2011	10/3/2011	5/6/2011	5/6/2011	10/3/2011	5/5/2011	9/30/2011
	Sample Time							9:55:00 AM	12:36	09:32	11:35:00 AM	2:30:00 PM	11:46	3:16:00 PM	10:00
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**								
FIELD	Dissolved oxygen		mg/L	---	---	---	---	3.02	4.19	4.00	3.44	2.57	2.22	3.03	1.57
	Oxidation-reduction potential		mV	---	---	---	---	12.5	47.7	44.8	54.4	163.6	56.6	211.1	63.3
	pH		SU	6 to 9	6.5-8.5	---	---	7.73	8.11	7.98	7.52	7.62	8.13	7.95	8.04
	Specific Conductance (field)		umhos/cm	---	---	---	---	12.3	10.95	10.53	13.05	15.8	12.88	14.2	12.61
	Temperature		deg C	---	---	---	---	23.56	23.03	21.64	22.4	21.67	22.06	22.51	21.61
	Turbidity		NTU	---	---	---	---	3.4	5.10	8.06	9.96	14.2	23.5	3.03	8.05
	Water Level		ft btoc	---	---	---	---	151.03	151.71	151.05	150.74	151.77	151.99	149.54	150.04
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	79.1	79.4	79.8	69.2	44.5	53.5	56.6	59.3
	Chloride	300.0	mg/L	**250.0**	250	---	---	**3280**	**3060**	**3130**	**3660**	**4550**	**3920**	**4180**	**3970**
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.901	0.899	0.245	0.375	0.719	0.43	0.9	0.511
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.003	0.003	*0.003*	*0.004*	*0.004*	*0.005*	*0.004*	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**2140**	**1810**	**1580**	**2130**	**2460**	**1880**	**2110**	**1630**
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**8270**	**7640**	**7610**	**7800**	**9540**	**9870**	**7000**	**9500**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	60	*100*	*85.3*	*78.8*	*63.6*	**200**	60	*110*
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	*77.6*	60	60	60	*67.3*	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	3.98	4.03	4.03	3.98	4.03	3.98
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	3.98	4.03	4.03	3.98	*4.59*	3.98
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	3.49	3.49	2.53	2.53	3.49	2.53	3.49
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*2.74*	*3.83*	3.49	2.53	2.53	3.49	*4.01*	*4.75*
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	23.7	17.4	17.3	23.9	20.9	14.3	23.8	15.2
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	18.7	16.9	15.5	17.5	14.6	11.9	17.8	15
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.082	0.11	0.11	0.082	0.11	0.082
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.082	0.11	0.11	0.082	0.11	0.082
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*0.31*	*1.16*	1.37	*0.2*	0.2	*1.53*	*0.35*	*1.58*
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*0.88*	*1.19*	*1.12*	*0.69*	*0.81*	*1.23*	*0.9*	*1.4*
	Calcium (Total)	6010C	ug/L	---	---	---	---	269000	259000	251000	252000	342000	317000	326000	303000
	(Dissolved)	6010C	ug/L	---	**---**	---	---	280000	285000	267000	257000	342000	334000	338000	339000
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*7.48*	*8.46*	*4.92*	*8.55*	*6.04*	*2.88*	*5.33*	*4.29*
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*5*	*4.17*	*3.73*	*5.75*	*3.89*	*1.33*	*4.02*	*2.38*
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	3.3	3.3	2.8	2.8	3.3	2.8	3.3
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	22.5	15.8	13.8	29.8	23.7	13.3	36.9	13.8
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	21	15.6	15.8	25.1	22	15.1	35.2	17.6
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006	0.0006	*0.0009*	0.0006	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	*79.9*	*47.1*	60.5	*160*	130	162	40	40
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	40	40	40	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	2.83	2.83	1.39	1.39	2.83	1.39	2.83
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	2.83	2.83	1.39	1.39	2.83	1.39	2.83
	Magnesium (Total)	6010C	ug/L	---	---	---	---	239000	236000	255000	238000	270000	270000	285000	283000
	(Dissolved)	6010C	ug/L	---	---	---	---	250000	257000	258000	244000	271000	272000	295000	283000
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	*4.1*	2	*3.12*	*9.22*	*7.83*	*6.87*	*5.27*	*3.49*
	(Dissolved)	6010C	ug/L	200	**50**	876	---	2	2	2	2	2	2	*3.11*	
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.075	0.10199	*0.081*	0.081	0.075	0.081	0.075
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	*0.08165*	0.075	0.081	0.081	*0.09168*	0.081	0.075
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*16.9*	*17.8*	*23.7*	*20.5*	*8.07*	*9.56*	*12.5*	*13.1*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*17.9*	*18.8*	*22.1*	*20.5*	*8.48*	*8.6*	*13*	*13.3*
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	*19.7*	*8.97*	*40.6*	27	0.96	0.84	0.96	*1.22*
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	*19.1*	*9.23*	*39.4*	*26.2*	0.96	0.84	0.96	0.84
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	18500	16400	16500	18200	19800	17000	20300	17100
	(Dissolved)	6010C	ug/L	**---**	---	---	---	19300	17700	16800	18200	19700	17400	20600	18300
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*31.1*	*30.3*	*23.2*	*20*	*30.7*	*29.6*	*19.6*	*21.6*
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*28.8*	*30.1*	*20.1*	*21.8*	*31.5*	*29.7*	*18.9*	*22.4*
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.64	0.6	0.6	0.64	0.6	0.64
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.64	0.6	0.6	0.64	0.6	0.64
	Sodium (Total)	6010C	ug/L	---	---	---	---	1960000	2080000	2100000	2040000	2620000	2540000	2260000	2170000
	(Dissolved)	6010C	ug/L	---	---	---	---	2020000	2080000	2220000	2020000	2550000	2580000	2240000	2480000
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	2.6	1.75	1.75	2.6	1.75	2.6
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	2.6	1.75	1.75	2.6	1.75	2.6
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	1.2	2.01	*1.2*	1.2	*2.45*	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	75.3	*14.8*	11	*81*	79.7	*12.1*	74.9	*4*
	(Dissolved)	6010C	ug/L	---	---	**183**	---	73.5	*10.5*	10.6	*74.3*	76.2	*13.4*	68.9	*6.46*
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	47.2	394	239	175	*17.5*	276	655	347
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	46.8	413	234	163	*14.2*	271	653	366
	Perchlorate	6860	ug/L	---	---	---	**15**	3.27	3.14	2.78	2.8	4.1	4.06	2.79	3.21
	(Dissolved)								**2.7**	**2.77**			**3.29**		**2.54**
VOCs	Acetone	8260B	ug/L	---	---	21,800	---	0.322	1.41	0.909	0.322	0.322	1.75	0.322	5.42
	Methylene chloride	8260B						0.102	0.891	0.102	0.102	0.102	1.37	0.102	0.102
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000	3.06	0.078	0.078	16.3	4.55	0.078	12.4	0.078
8330	Explosives were not detected in any ground water samples collected.														

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - 2011

MELROSE AIR FORCE RANGE

								SWMU-130							
	Test Site ID							MAO1MW001		MAO1MW002		MAO1MW003		MAO1MW004	
LAB INFO	Lab Sample No.							21105060810	21109280401	21105170901	21109280412	21105060819	21109280402	21105060818	21109280411
	Sample Date							5/9/2011	9/27/2011	5/16/2011	9/29/2011	5/10/2011	9/27/2011	5/10/2011	9/29/2011
	Sample Time							2:16:00 PM	09:33	9:35:00 AM	13:06	1:20:00 PM	12:21	11:11:00 AM	11:10
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**								
FIELD	Dissolved oxygen		mg/L	---	---	---	---	5.98	6.15	4.77	5.86	5.66	5.67	7.1	6.51
	Oxidation-reduction potential		mV	---	---	---	---	34.5	53.9	-1.5	52.1	81.9	73.3	54.7	83.7
	pH		SU	6 to 9	6.5-8.5	---	---	7.73	8.11	8.07	8.33	7.09	8.07	7.08	8.11
	Specific Conductance (field)		umhos/cm	---	---	---	---	3.387	2.9	3.174	2.57	2.741	2.65	1.834	1.68
	Temperature		deg C	---	---	---	---	22.95	20.91	21.94	22.58	22.69	23.27	21.43	21.76
	Turbidity		NTU	---	---	---	---	10.1	6.02	1.13	4.25	2.21	1.39	4.82	2.22
	Water Level		ft btoc	---	---	---	---	142.58	142.87	142.49	142.49	143.43	143.72	142.78	143.11
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	169	172	171	180	161	152	192	200
	Chloride	300.0	mg/L	**250.0**	250	---	---	**651**	**525**	**473**	**431**	**537**	**477**	**269**	**251**
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.233	0.116	0.325	0.207	0.163	0.085	0.615	0.339
	Nitrite	353.2	mg/L	---	**1**	3.65	1	*0.004*	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**704**	**564**	**544**	**514**	**616**	**524**	**352**	**329**
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**1980**	**1990**	**1780**	**1720**	**1760**	**1790**	**1110**	**1130**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	**276**	*84.3*	60	60	*111*	60	60	60
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	*105*	60	*164*	60	60	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	**102**	3.98	4.03	*5.29*	4.03	3.98
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	4.03	3.98	4.03	3.98	4.03	3.98
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	3.49	2.53	3.49	2.53	3.49	2.53	3.49
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	2.53	3.49	2.53	3.49	2.53	3.49	2.53	3.49
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	27.8	14.9	17.6	16.3	28.8	20.7	30.7	23
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	18	14.7	16.5	15.1	20.2	18.1	23.7	23.4
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.11	0.082	0.11	0.082	0.11	0.082
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.11	0.082	0.11	0.082	0.11	0.082
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Calcium (Total)	6010C	ug/L	---	---	---	---	49700	51000	35100	39000	63100	64100	38200	39300
	(Dissolved)	6010C	ug/L	---	**---**	---	---	50800	51300	37400	39100	59600	58600	36800	39900
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*8.54*	*1.06*	*3.05*	*2.47*	*4.46*	*1.96*	*5.09*	*1.21*
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*2.24*		*2.09*	*1.12*	*2.19*		*1.3*	
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	3.3	2.8	3.3	18	3.3	*7*	3.3
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	14.3	10.6	11	10.2	44	13.7	87.7	*8.23*
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	13.4	11.7	11.6	10.6	17.7	12.7	23	*9.63*
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	*0.0013*	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	204	40	40	40	116	40	176	40
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	*46.6*	40	40	40	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	2.83	1.39	2.83	1.39	2.83	*2.3*	2.83
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	2.83	1.39	2.83	1.39	2.83	1.39	2.83
	Magnesium (Total)	6010C	ug/L	---	---	---	---	48700	48100	34200	35800	63400	61200	36600	35500
	(Dissolved)	6010C	ug/L	---	---	---	---	50100	51400	36700	36100	60300	58700	35000	36100
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	*12.6*	*5.72*	*2.76*	*5.45*	*7.94*	*10.2*	*6.88*	*6.56*
	(Dissolved)	6010C	ug/L	200	**50**	876	---	*2.16*	2	2	2	2	*8.24*	*2.26*	*5.81*
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.075	0.081	0.075	0.081	*0.09518*	0.081	*0.08023*
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	0.075	0.081	*0.09305*	0.081	0.075	0.081	*0.08433*
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*4.94*	*4.42*	*7.44*	*5.93*	*4.39*	3.75	*7.31*	*4.78*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*5.66*	*4.61*	*8.79*	*6.66*	*4.09*	3.75	*6.27*	*5.07*
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	*2.96*	0.84	0.96	0.84	0.96	0.84	*2.29*	0.84
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	0.96	0.84	0.96	0.84	0.96	0.84	0.96	0.84
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	7780	7120	6860	6640	8970	7750	6610	6040
	(Dissolved)	6010C	ug/L	**---**	---	---	---	7880	7670	7280	6710	8430	7620	6400	6150
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	4.34	3.79	*5.87*	3.79	4.34	3.79	*4.44*	*6.15*
	(Dissolved)	6010C	ug/L	**50**	50	183	50	4.34	3.79	4.34	*4.49*	4.34	3.79	4.34	*5.03*
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.6	0.64	0.6	0.64	0.6	0.64
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.6	0.64	0.6	0.64	0.6	0.64
	Sodium (Total)	6010C	ug/L	---	---	---	---	567000	569000	491000	531000	469000	459000	308000	321000
	(Dissolved)	6010C	ug/L	---	---	---	---	588000	556000	527000	533000	458000	430000	297000	323000
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	1.75	2.6	1.75	2.6	1.75	2.6
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	1.75	2.6	1.75	2.6	1.75	2.6
	Titanium (Total)	6010C	ug/L	---	---	---	---	*3.16*	1.2	1.2	1.2	1.2	*1.24*	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	*1.53*	1.2	1.2	*1.37*	1.2	1.2	1.2	*1.52*
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	61.1	23	50.8	25.9	68.2	29.6	58.8	26.4
	(Dissolved)	6010C	ug/L	---	---	**183**	---	58.3	26.1	53.4	27.4	65.5	26.7	56.4	32.5
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	*2.74*	229	20.1	210	*13.4*	339	22.3	276
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	2.74	248	20.1	219	*4.16*	316	*9.8*	305
	Perchlorate	6860	ug/L	---	---	---	**15**	0.369	3.57	2.05	1.88	1.03	4.13	9.8	4.07
VOCs	(Dissolved)								**2.66**		**1.49**		**2.98**		**3.53**
	Acetone	8260B	ug/L	---	---	21,800	---	0.322	0.322	0.322	0.322	7.24	0.322	17.6	0.322
	Methylene chloride	8260B						0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000	6.28	0.078	1.89	0.078	0.078	0.078	0.078	0.078
8330	Explosives were not detected in any ground water samples collected.														

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - 2011

MELROSE AIR FORCE RANGE

								SWMU-131		Background	
	Test Site ID							MAO2MW001D		MWQ-23	
LAB INFO	Lab Sample No.							21105060801	21109280407	21105170902	21109280410
	Sample Date							5/5/2011	9/28/2011	5/16/2011	9/29/2011
	Sample Time							12:23:00 PM	10:28	11:10:00 AM	08:40
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**				
FIELD	Dissolved oxygen		mg/L	---	---	---	---	0.16	0.29	0.12	0.23
	Oxidation-reduction potential		mV	---	---	---	---	-11.8	27.1	-22.3	-64.1
	pH		SU	6 to 9	6.5-8.5	---	---	7.92	8.01	7.88	8.3
	Specific Conductance (field)		umhos/cm	---	---	---	---	10.6	8.99	2.442	1.87
	Temperature		deg C	---	---	---	---	19.88	20.92	19.45	19.97
	Turbidity		NTU	---	---	---	---	4.8	2.96	0.99	2.13
	Water Level		ft btoc	---	---	---	---	104.56	105.63	---	---
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	130	142	327	333
	Chloride	300.0	mg/L	**250.0**	250	---	---	**2190**	**1640**	235	212
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	1.56	1.71	0.003	0.013
	Nitrite	353.2	mg/L	---	**1**	3.65	1	*0.004*	0.035	0.003	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**2130**	**1860**	**423**	**396**
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**6290**	**5620**	**1420**	**1310**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*79.6*	60	60	60
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	4.03	3.98
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	3.98	4.03	3.98
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	3.49	*3.23*	3.49
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*5.99*	3.49	3.45	3.45
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	19.8	*9.84*	13.3	11.3
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	12.7	*9.44*	11.9	10.8
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.11	0.082
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.082	0.11	0.082
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	0.2	0.2	0.2	0.2
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	0.2	0.2	0.2	0.2
	Calcium (Total)	6010C	ug/L	---	---	---	---	127000	114000	13600	14700
	(Dissolved)	6010C	ug/L	---	---	---	---	127000	119000	14400	14700
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*2.52*	*1.31*	1	1
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*1.46*	1	1	1
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	3.3	*2.8*	3.3
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	226	25.3	*4.95*	*5.68*
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	116	23.8	*5.49*	*5.14*
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	40	40	*43.8*	40
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	2.83	*1.92*	2.83
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	2.83	1.39	2.83
	Magnesium (Total)	6010C	ug/L	---	---	---	---	71800	67600	9350	9550
	(Dissolved)	6010C	ug/L	---	---	---	---	73500	73300	9750	9680
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	**248**	**209**	**66.8**	**78**
	(Dissolved)	6010C	ug/L	200	**50**	876	---	**208**	**188**	**70.1**	**75.9**
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.075	0.081	0.075
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	0.075	0.081	0.075
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*18.1*	*14*	*31.9*	*30.4*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*17.5*	*15.2*	*34*	*31.3*
	Nickel (Total)	6010C	ug/L	**200**	---	730	---	*1.31*	*1.43*	0.96	0.84
	(Dissolved)	6010C	ug/L	**200**	---	730	---	*1.44*	*2.14*	0.96	0.84
	Potassium (Total)	6010C	ug/L	---	---	---	---	10400	8540	2520	2570
	(Dissolved)	6010C	ug/L	---	---	---	---	10300	9280	2680	2470
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	**94.7**	**117**	4.34	3.79
	(Dissolved)	6010C	ug/L	**50**	50	183	50	**107**	**132**	4.34	3.79
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.6	0.64
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.64	0.6	0.64
	Sodium (Total)	6010C	ug/L	---	---	---	---	1930000	1580000	451000	472000
	(Dissolved)	6010C	ug/L	---	---	---	---	1910000	1630000	489000	481000
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	1.75	2.6
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	2.6	1.75	2.6
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	*2.51*
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	69.9	24.5	*16.1*	*8.39*
	(Dissolved)	6010C	ug/L	---	---	**183**	---	66.2	25.9	*16.5*	*8.64*
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	129	288	24.7	*18.4*
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	128	301	25	*18.4*
	Perchlorate	6860	ug/L	---	---	---	**15**	**22.4**	**23.8**	0.3	0.1
	(Dissolved)								**19.6**		**0.1**
VOCs	Acetone	8260B	ug/L	---	---	21,800	---	0.322	0.322	0.322	0.322
	Methylene chloride	8260B						0.102	0.102	0.102	0.102
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000	16	0.078	0.078	0.078
8330	Explosives were not detected in any ground water samples collected.										

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - 2011

MELROSE AIR FORCE RANGE

								Semiannual									
	Test Site ID							**M114MW001**	**M114MW002**	**M114MW003**	**M114MW004**	**MAO1MW001**	**MAO1MW002**	**MAO1MW003**	**MAO1MW004**	**MAO2MW001D**	**MWQ-23**
LAB INFO	Lab Sample No.							21105060815	21105060805	21105060807	21105060802	21105060810	21105170901	21105060819	21105060818	21105060801	21105170902
	Sample Date							5/9/2011	5/6/2011	5/6/2011	5/5/2011	5/9/2011	5/16/2011	5/10/2011	5/10/2011	5/5/2011	5/16/2011
	Sample Time							9:55:00 AM	11:35:00 AM	2:30:00 PM	3:16:00 PM	2:16:00 PM	9:35:00 AM	1:20:00 PM	11:11:00 AM	12:23:00 PM	11:10:00 AM
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**										
FIELD	Dissolved oxygen		mg/L	---	---	---	---	3.02	3.44	2.57	3.03	5.98	4.77	5.66	7.1	0.16	0.12
	Oxidation-reduction potential		mV	---	---	---	---	12.5	54.4	163.6	211.1	34.5	-1.5	81.9	54.7	-11.8	-22.3
	pH		SU	6 to 9	6.5-8.5	---	---	7.73	7.52	7.62	7.95	7.73	8.07	7.09	7.08	7.92	7.88
	Specific Conductance (field)		umhos/cm	---	---	---	---	12.3	13.05	15.8	14.2	3.387	3.174	2.741	1.834	10.6	2.442
	Temperature		deg C	---	---	---	---	23.56	22.4	21.67	22.51	22.95	21.94	22.69	21.43	19.88	19.45
	Turbidity		NTU	---	---	---	---	3.4	9.96	14.2	3.03	10.1	1.13	2.21	4.82	4.8	0.99
	Water Level		ft btoc	---	---	---	---	151.03	150.74	151.77	149.54	142.58	142.49	143.43	142.78	104.56	---
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	79.1	69.2	44.5	56.6	169	171	161	192	130	327
	Chloride	300.0	mg/L	**250.0**	250	---	---	**3280**	**3660**	**4550**	**4180**	**651**	**473**	**537**	**269**	**2190**	235
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.901	0.375	0.719	0.9	0.233	0.325	0.163	0.615	1.56	0.003
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.003	*0.004*	*0.004*	*0.004*	*0.004*	0.003	0.003	0.003	*0.004*	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**2140**	**2130**	**2460**	**2110**	**704**	**544**	**616**	**352**	**2130**	**423**
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**8270**	**7800**	**9540**	**7000**	**1980**	**1780**	**1760**	**1110**	**6290**	**1420**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	60	*78.8*	*63.6*	60	**276**	60	*111*	60	*79.6*	60
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	*77.6*	60	*67.3*	60	*105*	*164*	60	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	4.03	4.03	4.03	4.03	**102**	4.03	4.03	4.03	4.03
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	4.03	4.03	*4.59*	4.03	4.03	4.03	4.03	4.03	4.03
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	*3.23*
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*2.74*	2.53	2.53	*4.01*	2.53	2.53	2.53	2.53	*5.99*	2.53
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	23.7	23.9	20.9	23.8	27.8	17.6	28.8	30.7	19.8	13.3
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	18.7	17.5	14.6	17.8	18	16.5	20.2	23.7	12.7	11.9
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*0.31*	0.2	0.2	*0.35*	0.2	0.2	0.2	0.2	0.2	0.2
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*0.88*	*0.69*	*0.81*	*0.9*	0.2	0.2	0.2	0.2	0.2	0.2
	Calcium (Total)	6010C	ug/L	---	---	---	---	269000	252000	342000	326000	49700	35100	63100	38200	127000	13600
	(Dissolved)	6010C	ug/L	---	**---**	---	---	280000	257000	342000	338000	50800	37400	59600	36800	127000	14400
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*7.48*	*8.55*	*6.04*	*5.33*	*8.54*	*3.05*	*4.46*	*5.09*	*2.52*	1
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*5*	*5.75*	*3.89*	*4.02*	*2.24*	*2.09*	*2.19*	*1.3*	*1.46*	1
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	2.8	2.8	2.8	2.8	2.8	18	*7*	2.8	2.8
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	*22.5*	*29.8*	*23.7*	*36.9*	*14.3*	*11*	*44*	*87.7*	*226*	*4.95*
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	*21*	*25.1*	*22*	*35.2*	*13.4*	*11.6*	*17.7*	*23*	*116*	*5.49*
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	*0.0013*	0.0006	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	*79.9*	160	130	40	204	40	116	176	40	*43.8*
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	40	40	40	*46.6*	40	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	1.39	1.39	1.39	1.39	1.39	1.39	*2.3*	1.39	*1.92*
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
	Magnesium (Total)	6010C	ug/L	---	---	---	---	239000	238000	270000	285000	48700	34200	63400	36600	71800	9350
	(Dissolved)	6010C	ug/L	---	---	---	---	250000	244000	271000	295000	50100	36700	60300	35000	73500	9750
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	*4.1*	*9.22*	*7.83*	*5.27*	*12.6*	*2.76*	*7.94*	*6.88*	**248**	**66.8**
	(Dissolved)	6010C	ug/L	200	**50**	876	---	2	2	2	*3.11*	*2.16*	2	2	*2.26*	**208**	**70.1**
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*16.9*	*20.5*	*8.07*	*12.5*	*4.94*	*7.44*	*4.39*	*7.31*	*18.1*	*31.9*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*17.9*	*20.5*	*8.48*	*13*	*5.66*	*8.79*	*4.09*	*6.27*	*17.5*	*34*
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	*19.7*	*27*	0.96	0.96	*2.96*	0.96	0.96	*2.29*	*1.31*	0.96
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	*19.1*	*26.2*	0.96	0.96	0.96	0.96	0.96	0.96	*1.44*	0.96
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	18500	18200	19800	20300	7780	6860	8970	6610	10400	2520
	(Dissolved)	6010C	ug/L	**---**	---	---	---	19300	18200	19700	20600	7880	7280	8430	6400	10300	2680
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*31.1*	*20*	*30.7*	*19.6*	4.34	*5.87*	4.34	*4.44*	**94.7**	4.34
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*28.8*	*21.8*	*31.5*	*18.9*	4.34	4.34	4.34	4.34	**107**	4.34
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Sodium (Total)	6010C	ug/L	---	---	---	---	1960000	2040000	2620000	2260000	567000	491000	469000	308000	1930000	451000
	(Dissolved)	6010C	ug/L	---	---	---	---	2020000	2020000	2550000	2240000	588000	527000	458000	297000	1910000	489000
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	*3.16*	1.2	1.2	1.2	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	*1.53*	1.2	1.2	1.2	1.2	1.2
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	75.3	81	79.7	74.9	61.1	50.8	68.2	58.8	69.9	*16.1*
	(Dissolved)	6010C	ug/L	---	---	**183**	---	73.5	74.3	76.2	68.9	58.3	53.4	65.5	56.4	66.2	*16.5*
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	47.2	175	*17.5*	655	*2.74*	20.1	*13.4*	*22.3*	129	24.7
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	46.8	163	*14.2*	653	2.72	2.72	*4.16*	*9.8*	128	25
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	3.27	2.8	4.1	2.79	0.369	2.05	1.03	9.8	**22.4**	0.3
	Acetone	8260B	ug/L	---	---	21,800	---	0.322	0.322	0.322	0.322	0.322	0.322	7.24	17.6	0.322	0.322
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000	3.06	16.3	4.55	12.4	6.28	1.89	0.078	0.078	16	0.078
	Explosives	8330	Explosives were not detected in any ground water samples collected.					Explosives were not detected in any ground water samples collected.									

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS (5/3/2011 - 5/18/2011)

MELROSE AIR FORCE RANGE

								Annual									
	Test Site ID							**MWL-6**	**MWQ-2**	**MWQ-3**	**MWQ-4**	**MWQ-5**	**MWQ-6**	**MWQ-7**	**MWQ-10**	**MWQ-14**	**MWQ-18**
LAB INFO	Lab Sample No.							21105190401	21105042611	21105042601	21105042602	21105042603	21105042605	21105042606	21105042607	21105042616	21105042615
	Sample Date							5/18/2011	5/5/2011	5/3/2011	5/3/2011	5/3/2011	5/3/2011	5/3/2011	5/3/2011	5/13/2011	5/12/2011
	Sample Time							2:30:00 PM	9:26:00 AM	9:15:00 AM	10:18:00 AM	11:57:00 AM	1:12:00 PM	1:53:00 PM	3:23:00 PM	12:31:00 PM	12:40:00 PM
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**										
FIELD	Dissolved oxygen		mg/L	---	---	---	---	3.48	0.39	6.23	5.89	5.71	5.83	6.60	6.65	3.81	5.96
	Oxidation-reduction potential		mV	---	---	---	---	-18.5	-27.2	-20.9	20.0	0.70	-9.5	-4.7	-4.9	25.0	81.4
	pH		SU	6 to 9	6.5-8.5	---	---	7.5	7.79	7.48	7.16	7.22	7.25	7.22	7.03	7.94	7.44
	Specific Conductance (field)		umhos/cm	---	---	---	---	9.811	12.67	0.979	0.702	0.793	0.726	0.971	0.846	4.197	0.763
	Temperature		deg C	---	---	---	---	21.53	19.63	18.42	16.17	17.56	18.05	18.41	18.05	19.18	21.25
	Turbidity		NTU	---	---	---	---	25.7	2.02	0.17	0.26	0.20	0.27	0.17	1.32	2.29	2.50
	Water Level		ft btoc	---	---	---	---	118.59	121.96	---	42.94	---	---	---	---	66.40	101.19
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	129	83.1	145	177	175	160	147	216	133	161
	Chloride	300.0	mg/L	**250.0**	250	---	---	107	**3310**	68.3	17.6	21.8	21.4	59.3	29.3	**715**	40.3
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.408	0.244	0.738	3.43	5.53	3.39	1.31	7.07	1.59	0.372
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.013	0.003	0.003	0.003	*0.004*	0.003	0.003	0.003	0.003	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	216	**1350**	150	59	90.8	85.5	156	60.6	**994**	110
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**658**	**7120**	430	300	374	352	480	390	**2670**	**520**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*69.7*	60	60	60	60	60	60	60	*60.6*	*153*
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	60	60	60	60	60	60	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	4.03	*5.7*	4.03	4.03	4.03	4.03	4.03	4.03	4.03
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	4.03	4.03	*5.07*	*4.74*	4.03	*5.98*	4.03	4.03	4.03
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	*5.89*	2.53	**13.5**	**11**	*9.27*	**10.2**	*3.8*	*8.34*	2.53	*6.33*
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*3.95*	*3*	**15.9**	**10.5**	*7.43*	*7.16*	*8.35*	*7.83*	*3.99*	*7.34*
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	24.1	34.3	31.1	50.4	35.6	38.5	33.7	124	15.3	35.6
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	20.8	28.2	27.2	46.2	30.3	34.6	29.5	123	11.9	33.8
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	0.2	0.2	*0.44*	*0.36*	*0.76*	*0.72*	*0.87*	*0.73*	0.2	*0.65*
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	0.2	*0.49*	*0.83*	*0.94*	*1.1*	*0.96*	*1.35*	*0.86*	0.2	*1.01*
	Calcium (Total)	6010C	ug/L	---	---	---	---	69200	187000	30200	42300	42500	40800	57600	53600	65900	41200
	(Dissolved)	6010C	ug/L	---	**---**	---	---	69200	204000	29600	42300	40800	40600	57200	54300	66700	44400
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*2.02*	*2.53*	*1.65*	1	*1.48*	*1.42*	1	1	*2.31*	15.9
	(Dissolved)	6010C	ug/L	**50**	100	---	100	1	*2.25*	*1.15*	1	1	1	*1.34*	*1.07*	*1.98*	1
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	*3*	2.8	2.8	2.8	2.8	2.8	*5*	2.8	2.8
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	*1.74*	1	1	1	1	1	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	13.3	23.9	10.4	11.8	*9.64*	*7.09*	*8.93*	12.3	16.1	814
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	*9.01*	22.2	10.8	*9.83*	*8.59*	*7.23*	*8.81*	12.2	14.5	554
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	**7450**	*52.8*	40	40	40	40	40	40	40	168
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	**566**	40	40	40	40	40	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	*2.5*	1.39	1.39	*2.79*	1.39	1.39	*4.79*	*1.54*	1.39	*1.79*
	(Dissolved)	6010C	ug/L	50	**15**	---	15	*1.9*	1.39	*6.4*	*2.61*	1.39	*2.42*	*3.4*	*2.43*	1.39	1.39
	Magnesium (Total)	6010C	ug/L	---	---	---	---	33800	124000	33100	19400	23100	19700	24500	40400	61800	18700
	(Dissolved)	6010C	ug/L	---	---	---	---	33700	135000	32300	19200	21600	19300	24600	40500	62400	20200
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	**265**	**82.9**	2	2	2	2	2	2	*13.8*	*5.27*
	(Dissolved)	6010C	ug/L	200	**50**	876	---	**158**	**50.1**	2	2	2	2	2	2	2	*9.28*
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081	0.081	0.081	0.081	*0.0921*	0.081	0.081
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	3.75	*20.6*	*3.84*	3.75	3.75	3.75	3.75	*3.77*	*25.4*	*16.4*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	3.75	*22.6*	*4.54*	3.75	3.75	3.75	3.75	*4.87*	*26*	*11.6*
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	*1.09*	*1.6*	0.96	0.96	0.96	0.96	0.96	0.96	*1.18*	*6.94*
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	0.96	*1.89*	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	5470	11600	6210	3310	3260	2120	2690	5950	11400	2770
	(Dissolved)	6010C	ug/L	**---**	---	---	---	5560	12600	6210	3310	3240	2610	2650	6090	11400	2870
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*9.06*	4.34	4.34	4.34	4.34	4.34	4.34	4.34	*26.3*	4.34
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*8.02*	4.34	4.34	4.34	4.34	4.34	*6.12*	4.34	*23.3*	4.34
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Sodium (Total)	6010C	ug/L	---	---	---	---	69600	2170000	81700	55900	65200	57900	72000	21100	628000	65500
	(Dissolved)	6010C	ug/L	---	---	---	---	67800	2260000	80300	56400	63600	57900	72700	21500	633000	68800
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	69.9	73.5	104	79.8	84.3	77.7	76.8	68.8	59	78.6
	(Dissolved)	6010C	ug/L	---	---	**183**	---	59.3	71.6	100	78.8	80.8	78.4	74.4	69.8	58.1	79.9
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	93.6	394	2.72	*7.24*	*2.88*	*7.87*	2.72	*3.3*	2.72	52.4
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	*4.65*	*426*	2.72	*7.38*	2.72	*5.61*	2.72	*4.86*	2.72	38.2
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	9.94	0.198	7.31	3.08	3	3.98	5.84	5.3	4.52	10.8
	Acetone	8260B	ug/L	---	---	21,800	---										
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000										
	Explosives	8330	Explosives were not detected in any ground water samples collected.														

								Annual									
	Test Site ID							**MWQ-19**	**MWQ-20**	**MWQ-21**	**MWQ-22**						
LAB INFO	Lab Sample No.							21105042614	21105042620	21105042613	21105042612						
	Sample Date							5/12/2011	5/17/2011	5/11/2011	5/11/2011						
	Sample Time							9:50:00 AM	1:22:00 PM	1:05:00 PM	11:01:00 AM						
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**										
FIELD	Dissolved oxygen		mg/L	---	---	---	---	0.08	0.08	0.17	0.07						
	Oxidation-reduction potential		mV	---	---	---	---	-160.1	0.4	-24.0	-39.5						
	pH		SU	6 to 9	6.5-8.5	---	---	8.27	7.79	7.83	7.14						
	Specific Conductance (field)		umhos/cm	---	---	---	---	7.353	17.17	17.06	1.809						
	Temperature		deg C	---	---	---	---	18.06	19.31	22.93	18.14						
	Turbidity		NTU	---	---	---	---	6.46	8.71	12.40	0.87						
	Water Level		ft btoc	---	---	---	---	99.41	45.29	83.28	42.41						
GENERAL	Alkalinity	2320B	mg/L	---	---	---	---	302	55.7	244	147						
	Chloride	300.0	mg/L	**250.0**	250	---	---	**2050**	**6010**	121	**342**						
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.003	0.003	2.44	0.309						
	Nitrite	353.2	mg/L	---	**1**	3.65	1	*0.007*	*0.006*	*0.008*	0.011						
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**1530**	**1630**	**476**	233						
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**5500**	**11900**	**900**	**936**						
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*72.4*	**261**	**1100**	60						
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	60	**272**	60						
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	4.03	**20.3**	4.03	4.03						
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	4.03	**6**	4.03	4.03						
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	2.53	2.53	*6.1*	2.53						
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*3.75*	*3.95*	*9.41*	2.53						
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	35.6	26	26.3	48.9	40.8					
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	33.8	21.8	21.5	32.6	37.6					
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11						
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.11	0.11	0.11	0.11						
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*1.11*	*1.93*	*0.51*	0.2						
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*1.27*	*2.01*	*0.69*	0.2						
	Calcium (Total)	6010C	ug/L	---	---	---	---	286000	556000	122000	37300						
	(Dissolved)	6010C	ug/L	---	**---**	---	---	285000	544000	120000	38500						
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*2.38*	*3.38*	*4.41*	1						
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*2.18*	*2.58*	*1.95*	1						
	Chromium, VI	7196A	ug/L	---	100	110	---	2.8	2.8	32	2.8						
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	*1.23*	1	1						
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	*1.1*	1	1						
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	20.1	23.2	15	*7.72*						
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	18	21.3	13.3	*6.97*						
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	0.0006	0.0006						
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	**2820**	241	**669**	147						
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	**2590**	*71.1*	127	142						
	Lead (Total)	6010C	ug/L	50	**15**	---	15	1.39	1.39	1.39	1.39						
	(Dissolved)	6010C	ug/L	50	**15**	---	15	1.39	1.39	1.39	1.39						
	Magnesium (Total)	6010C	ug/L	---	---	---	---	188000	311000	57600	16200						
	(Dissolved)	6010C	ug/L	---	---	---	---	188000	306000	57700	17400						
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	**436**	**967**	19.9	**426**						
	(Dissolved)	6010C	ug/L	200	**50**	876	---	**432**	**934**	2	**440**						
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081						
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	0.081	0.081	0.081	0.081						
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	3.75	*17*	*9.63*	*11.1*						
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	3.75	*16.4*	*9.72*	*12*						
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	0.96	0.96	*1.27*	0.96						
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	0.96	0.96	0.96	0.96						
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	10400	16200	10300	3260						
	(Dissolved)	6010C	ug/L	**---**	---	---	---	10400	15700	9970	3340						
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	4.34	4.34	*11*	4.34						
	(Dissolved)	6010C	ug/L	**50**	50	183	50	4.34	4.34	*9.9*	*5*						
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6						
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.6	0.6	0.6	0.6						
	Sodium (Total)	6010C	ug/L	---	---	---	---	1100000	2970000	184000	315000						
	(Dissolved)	6010C	ug/L	---	---	---	---	1110000	2780000	181000	319000						
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75						
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	1.75	1.75	1.75	1.75						
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	*1.42*	*10.6*	1.2						
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	*5.29*	1.2						
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	64.3	64	99.7	29.4						
	(Dissolved)	6010C	ug/L	---	---	**183**	---	64.6	64.1	98.8	32.2						
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	865	2370	*15.6*	*7.64*						
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	615	2190	2.72	2.72						
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	0.198	0.495	8.27	1.48						
	Acetone	8260B	ug/L	---	---	21,800	---										
	Toluene	8260B	ug/L	**750**	1000	2,280	1,000										
	Explosives	8330	Explosives were not detected in any ground water samples collected.														

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated); Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS (5/3/2011 - 5/18/2011)

MELROSE AIR FORCE RANGE

								Semiannual								
	Test Site ID							M114MW001	M114MW002	M114MW003	M114MW004	MA01MW001	MA01MW002	MA01MW003	MA01-MW004	MA02 MW001D	MWQ-23
LAB INFO	Lab Sample No.							21110010502	21110010505	21110010506	21110010501	21109280401	21109280412	21109280402	21109280411	21109280407	21109280410
	Sample Date							9/30/2011	10/3/2011	10/3/2011	9/30/2011	9/27/2011	9/29/2011	9/27/2011	9/29/2011	9/28/2011	9/29/2011
	Sample Time							12:36	09:32	11:46	10:00	09:33	13:06	12:21	11:10	10:28	08:40
	Parameter	**Method**	**Unit**	**WQCC (NMAC Section 20.6.2.3103)**	**USEPA Drinking Water Maximum Contaminant Levels (May 2010)**	**NMED SSLs - Tapwater Screening Levels (Dec 2009)**	**Regional Screening Levels for Chemical Contaminants at Superfund Sites (May 2010)**	**M114MW001**	**M114MW002**	**M114MW003**	**M114MW004**	**MA01MW001**	**MA01MW002**	**MA01MW003**	**MA01-MW004**	**MA02 MW001D**	**MWQ-23**
FIELD PARAMETERS	Dissolved oxygen		mg/L	---	---	---	---	4.19	4.00	2.22	1.57	6.15	5.86	5.67	6.51	0.29	0.23
	Oxidation-reduction potential		mV	---	---	---	---	47.7	44.8	56.6	63.3	53.9	52.1	73.3	83.7	27.1	-64.1
	pH		SU	6 to 9	6.5-8.5	---	---	8.11	7.98	8.13	8.04	8.11	8.33	8.07	8.11	8.01	8.3
	Specific Conductance (field)		umhos/cm	---	---	---	---	10.95	10.53	12.88	12.61	2.9	2.57	2.65	1.68	8.99	1.87
	Temperature		deg C	---	---	---	---	23.03	21.64	22.06	21.61	20.91	22.58	23.27	21.76	20.92	19.97
	Turbidity		NTU	---	---	---	---	5.10	8.06	23.5	8.05	6.02	4.25	1.39	2.22	2.96	2.13
	Water Level		ft btoc	---	---	---	---	151.71	151.05	151.99	150.04	142.87	142.49	143.72	143.11	105.63	---
GENERAL PARAMETE	Alkalinity	2320B	mg/L	---	---	---	---	79.4	79.8	53.5	59.3	172	180	152	200	142	333
	Chloride	300.0	mg/L	**250.0**	250	---	---	**3060**	**3130**	**3920**	**3970**	**525**	**431**	**477**	**251**	**1640**	212
	Nitrate as N	353.2	mg/L	**10**	10	58.4	10	0.899	0.245	0.43	0.511	0.116	0.207	0.085	0.339	1.71	0.013
	Nitrite	353.2	mg/L	---	**1**	3.65	1	0.003	*0.003*	*0.005*	0.003	0.003	0.003	0.003	0.003	0.035	0.003
	Sulfate	300.0	mg/L	600.0	**250**	---	---	**1810**	**1580**	**1880**	**1630**	**564**	**514**	**524**	**329**	**1860**	**396**
	TDS	2540C	mg/L	1,000.0	**500**	---	---	**7640**	**7610**	**9870**	**9500**	**1990**	**1720**	**1790**	**1130**	**5620**	**1310**
INORGANICS	Aluminum (Total)	6010C	ug/L	5000	**200**	3650	---	*100*	*85.3*	**200**	*110*	*84.3*	60	60	60	60	60
	(Dissolved)	6010C	ug/L	5000	**200**	3650	---	60	60	60	60	60	60	60	60	60	60
	Antimony (Total)	6010C	ug/L	---	**6**	14.6	6.0	3.98	3.98	3.98	3.98	3.98	3.98	*5.29*	3.98	3.98	3.98
	(Dissolved)	6010C	ug/L	---	**6**	14.6	6.0	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98
	Arsenic (Total)	6010C	ug/L	100	**10**	0.448	10	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
	(Dissolved)	6010C	ug/L	100	**10**	0.448	10	*3.83*	3.49	3.49	*4.75*	3.49	3.49	3.49	3.49	3.49	3.49
	Barium (Total)	6010C	ug/L	**1000**	2000	7,300	2,000	17.4	17.3	14.3	15.2	14.9	16.3	20.7	23	*9.84*	11.3
	(Dissolved)	6010C	ug/L	**1000**	2000	7,300	2,000	16.9	15.5	11.9	15	14.7	15.1	18.1	23.4	*9.44*	10.8
	Beryllium (Total)	6010C	ug/L	---	**4**	73.0	4	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
	(Dissolved)	6010C	ug/L	---	**4**	73.0	4	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
	Cadmium (Total)	6010C	ug/L	10	**5**	18.3	5	*1.16*	*1.37*	*1.53*	*1.58*	0.2	0.2	0.2	0.2	0.2	0.2
	(Dissolved)	6010C	ug/L	10	**5**	18.3	5	*1.19*	*1.12*	*1.23*	*1.4*	0.2	0.2	0.2	0.2	0.2	0.2
	Calcium (Total)	6010C	ug/L	---	---	---	---	259000	251000	317000	303000	51000	39000	64100	39300	114000	14700
	(Dissolved)	6010C	ug/L	---	---	---	---	285000	267000	334000	339000	51300	39100	58600	39900	119000	14700
	Chromium (Total)	6010C	ug/L	**50**	100	---	100	*8.46*	*4.92*	*2.88*	*4.29*	*1.06*	*2.47*	*1.96*	*1.21*	*1.31*	1
	(Dissolved)	6010C	ug/L	**50**	100	---	100	*4.17*	*3.73*	*1.33*	*2.38*	1	*1.12*	1	1	1	1
	Chromium, VI	7196A	ug/L	---	100	110	---	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	Cobalt (Total)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1	1	1
	(Dissolved)	6010C	ug/L	**50**	---	---	---	1	1	1	1	1	1	1	1	1	1
	Copper (Total)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	15.8	13.8	13.3	13.8	10.6	10.2	13.7	*8.23*	25.3	*5.68*
	(Dissolved)	6010C	ug/L	**1,000.0**	1,000	1,460	1,300	15.6	15.8	15.1	17.6	11.7	10.6	12.7	*9.63*	23.8	*5.14*
	Cyanide (Total)	9012B	ug/L	**200**	200	730	200	0.0006	0.0006	*0.0009*	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	Iron (Total)	6010C	ug/L	1000	**300**	2560	---	*47.1*	*60.5*	162	40	40	40	40	40	40	40
	(Dissolved)	6010C	ug/L	1000	**300**	2560	---	40	40	40	40	40	40	40	40	40	40
	Lead (Total)	6010C	ug/L	50	**15**	---	15	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
	(Dissolved)	6010C	ug/L	50	**15**	---	15	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
	Magnesium (Total)	6010C	ug/L	---	---	---	---	236000	255000	270000	283000	48100	35800	61200	35500	67600	9550
	(Dissolved)	6010C	ug/L	---	---	---	---	257000	258000	272000	283000	51400	36100	58700	36100	73300	9680
	Manganese (Total)	6010C	ug/L	200	**50**	876	---	2	*3.12*	*6.87*	*3.49*	*5.72*	*5.45*	*10.2*	*6.56*	**209**	**78**
	(Dissolved)	6010C	ug/L	200	**50**	876	---	2	2	2	2	2	2	*8.24*	*5.81*	**188**	**75.9**
	Mercury (Total)	7470A	ug/L	**2**	2	0.562	2	0.075	*0.10199*	0.075	0.075	0.075	0.075	*0.09518*	*0.08023*	0.075	0.075
	(Dissolved)	7470A	ug/L	**2**	2	0.562	2	*0.08165*	0.075	*0.09168*	0.075	0.075	*0.09305*	0.075	*0.08433*	0.075	0.075
	Molybdenum	6010C	ug/L	**1,000.0**	---	183	---	*17.8*	*23.7*	*9.56*	*13.1*	*4.42*	*5.93*	3.75	*4.78*	*14*	*30.4*
	(Dissolved)	6010C	ug/L	**1,000.0**	---	183	---	*18.8*	*22.1*	*8.6*	*13.3*	*4.61*	*6.66*	3.75	*5.07*	*15.2*	*31.3*
	Nickel (Total)	6010C	ug/L	**200**	**---**	730	---	*8.97*	40.6	0.84	*1.22*	0.84	0.84	0.84	0.84	*1.43*	0.84
	(Dissolved)	6010C	ug/L	**200**	**---**	730	---	*9.23*	*39.4*	0.84	0.84	0.84	0.84	0.84	0.84	*2.14*	0.84
	Potassium (Total)	6010C	ug/L	**---**	---	---	---	16400	16500	17000	17100	7120	6640	7750	6040	8540	2570
	(Dissolved)	6010C	ug/L	**---**	---	---	---	17700	16800	17400	18300	7670	6710	7620	6150	9280	2470
	Selenium (Total)	6010C	ug/L	**50**	50	183	50	*30.3*	*23.2*	*29.6*	*21.6*	3.79	3.79	3.79	*6.15*	**117**	3.79
	(Dissolved)	6010C	ug/L	**50**	50	183	50	*30.1*	*20.1*	*29.7*	*22.4*	3.79	*4.49*	3.79	*5.03*	**132**	3.79
	Silver (Total)	6010C	ug/L	**50**	100	183	---	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
	(Dissolved)	6010C	ug/L	**50**	100	183	---	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
	Sodium (Total)	6010C	ug/L	---	---	---	---	2080000	2100000	2540000	2170000	569000	531000	459000	321000	1580000	472000
	(Dissolved)	6010C	ug/L	---	---	---	---	2080000	2220000	2580000	2480000	556000	533000	430000	323000	1630000	481000
	Thallium (Total)	6010C	ug/L	---	**2**	2.41	2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	(Dissolved)	6010C	ug/L	---	**2**	2.41	2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	Titanium (Total)	6010C	ug/L	---	---	---	---	1.2	*2.01*	*2.45*	1.2	1.2	1.2	*1.24*	1.2	1.2	1.2
	(Dissolved)	6010C	ug/L	---	---	---	---	1.2	1.2	1.2	1.2	1.2	*1.37*	1.2	*1.52*	1.2	*2.51*
	Vanadium (Total)	6010C	ug/L	---	---	**183**	---	*14.8*	*11*	*12.1*	*4*	23	25.9	29.6	26.4	24.5	*8.39*
	(Dissolved)	6010C	ug/L	---	---	**183**	---	*10.5*	*10.6*	*13.4*	*6.46*	26.1	27.4	26.7	32.5	25.9	*8.64*
	Zinc (Total)	6010C	ug/L	10,000.0	**5,000**	11,000	---	394	239	276	347	229	210	339	276	288	*18.4*
	(Dissolved)	6010C	ug/L	10,000.0	**5,000**	11,000	---	413	234	271	366	248	219	316	305	301	*18.4*
VOCs	Perchlorate	6860	ug/L	---	---	---	**15**	3.14	2.78	4.06	3.21	3.57	1.88	4.13	4.07	**23.8**	0.100
	(Dissolved)	6860	ug/L	---	---	---	**15**	2.7	2.77	3.29	2.54	2.66	1.49	2.98	3.53	**19.6**	0.100
	Acetone	8260B	ug/L	**---**	---	21,800	---	1.41	0.909	1.75	5.42	0.322	0.322	0.322	0.322	0.322	0.322
	Methylene chloride	8260B	ug/L	**100**	---	48	5	0.891	0.102	1.37	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Explosives		8330	Explosives were not detected in any ground water samples collected.					Explosives were not detected in any ground water samples collected.									

Notes: **BOLD** indicatesthe lowest screening value utilized to evaluate the data; **Red** indicates exceedance, not necessarily a water quality violation; *italicized* value indicates estimated result between MDL and RL; Greyscale indicates value below detection limit (MDL tabulated);
Laboratory: Gulf Coast Analytical Laboratory, Baton Rogue, LA; Sampling performed by Trinity Analysis & Development Corp.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS (9/27/2011 - 10/3/2011)

MELROSE
AIR FORCE RANGE

Well ID	TOC (ft NAVD)	DEPTH TO WATER (BTOC (ft))										
		1/1/2003[1]	1/12/2004	7/19/2004	7/18/2005	6/18/2007	1/14/2009	1/26/2010	10/24/2010	5/3/2011	9/26/2011	
M114MW001	4□□□7□0□						1□0□07	1□0□□0	1□0□□7	1□1□0□	1□1□71	
M114MW00□	4□□□7□□□						1□0□□□	1□0□4□	1□0□□0	1□0□74	1□1□0□	
M114MW00□	4□□□□4□						1□1□70	1□1□□0	1□1□□□	1□1□77	1□1□□□	
M114MW004□MW□□1□□	4□□□4□7□	14□□7□	14□□□0	14□□□□	14□□7□	14□□4□	14□□1□	14□□00	14□□0□	14□□□4	1□0□04	
M117MW001	4□□□□7□						4□□71	4□□□□		□□□□d□□□d	□□□□d□□□d	
M117MW00□	4□□□7□□7						40□□□	41□□□		□□□□d□□□d	□□□□d□□□d	
M117MW00□	4□□□□□□□						4□□47	4□□□0		□□□□d□□□d	□□□□d□□□d	
M117MW004	4□□□□□□□						□r□	□r□		□□□□d□□□d	□□□□d□□□d	
M□□1MW001	4□□44□47						14□□4□	14□□□0	14□□4□	14□□□□	14□□□7	
M□□1MW00□	4□□4□□□□						14□□□□	14□□40	14□□7□	14□□44	14□□4□	
M□□1MW00□□MW□□17□	4□□4□□11	144□11	144□□□				144□□0	14□□□0	144□0□	14□□4□	14□□7□	
M□□1MW004	4□□4□□71						14□□□□	14□□□□	14□□1□	14□□7□	14□□11	
M□□□MW001□□MW□□1□□	4□□□□□□0	10□□□0	10□□□□	10□□□□	100□□□	10□□□□	10□□□□	10□□7□	10□□□□	104□□□	10□□□□	
M□□□MW001□	4□□□□7□						□r□	□r□	□r□	□□□□d□□□d	□□□□d□□□d	
M□□□MW001	4□□□0□11						4□□00			□□□□d□□□d	□□□□d□□□d	
MW□□1	4□□□□□□□						□r□		□r□	□r□	□r□	
MW□□□	4□□□□□□□	1□□□□□	1□□□41	1□□□□□	1□□□14	1□□□07	1□□□0□	1□□□0□	1□1□□□	1□1□□□	1□1□□□	
MW□□□	4□□71□04	1□4□04	1□□□□1									
MW□□4	4□□0□□10	□□□10				□□□□□			41□7□	□□□0□	□□□1□	
MW□□□	4□□□4□□□	□□□□□	□□□07	□□□□□		□□□□□						
MW□□□	4□□7□□□□	□4□□□				□4□□1						
MW□□7	4□□□□□□1	□□□□1	□□□□□	□□□□□	70□□□							
MW□□□	44□□□4□	10□□4□			110□□□	10□□□□	□r□	□r□	111□10	10□□□□	110□4□	
MW□□□	□□□	□□□□□□□□										
MW□□10	4□□41□□□	4□□□□	4□□□□		41□□□							
MW□□11	□□□	□□□□□□□										
MW□□1□	□□□	□□□□□□□									□□0□	
MW□□1□	□□□	□□□□□□□								1□1□□□	1□1□41	
MW□□14	4□□□1□□7	□□□□7	□□□□7	□□□1□	□□□7□	□□□□4	□□□□1	□□□□0			□□□□□	
MW□□1□	4□□□□□□□					100□□0	101□□□	1□47□	101□□□	101□1□	101□4□	
MW□□1□	4□□□□□□□						101□0□	100□□0	10□□□□	□□□41	□rr□r	
MW□□□0	4□□□□□□7					□□□1□	□□□□□	10□□7□	□□□□0	□□□□□	□□□□□	
MW□□□1	4□□0□□□□					4□□□□	44□7□	4□□0□	4□□□0	4□□□4	4□□□□	
MW□□□1	4□□0□□□□					40□0□	41□□0	□□□□□	4□□□4	4□□41	4□□4□	
MW□□1	4□□41□01	11□□01	110□□□	110□□0	110□□□	11□□□0	114□00		1□0□□0	1□□1□□0		
MW□□□	4□□□□□□□	1□□□□□	1□□□1□	1□□□□□		1□□□□7				1□□□□7		
MW□□□	4□□□□□□□	□7□□□	□□□4□	□□□47		□□□77	□□□□0					
MW□□4	4□□□0□□□	4□□□□	4□□□□	4□□□□	4□□□□	4□□□□	□0□00		□0□□1	□0□□0	□0□7□	
MW□□□	41□□□4□	1□4□				11□□□	1□□□1		1□□□0	1□□□□	140□	
MW□□□	4□□04□□1	11□□□1	11□□□4	117□0□	117□□4	117□□7	11□□4□	11□□□0	11□□□0	11□□□□	11□□□□	
MW□□7	4□□□□□□0	74□□0	74□□□	74□7□	74□7□	74□□□	74□7□		7□□00	7□0□	7□□14	
MW□□□	4□□□□□0□	74□0□	74□□□	74□□□	74□□4	74□1□	7□□□□		74□10		74□□□	
MW□□□	4□□41□□1	4□□□1					44□70		4□□10	4□□1□	4□□□□	
MW□□10	□□□	□□□□□□□			□□□□□□□							
MW□□11	□□□	□□□□□□□								□□□7□	□□□□4	
MW□□1□	□□□	□□□□□□□								□1□7□	□7□1□	

[1] □□□□□□□□□□r□□□00□□□r□□□□d□□□□□r□□□□□d□□□□□□□□□□"□□d□□□□□□□□d□□□□□□□□r□□□□□□"□□□□□□□□00□□□□d□□00□□□□□□□□□□004□□

TABLE 5
GROUND WATER LEVELS

Well ID	TOC (ft NAVD)	WATER LEVEL (ft NAVD)										
		1/1/2003[1]	1/12/2004	7/19/2004	7/18/2005	6/18/2007	1/14/2009	1/26/2010	10/24/2010	5/3/2011	9/26/2011	
M114MW001	4□□.7□						4□.□	4□.7□	4□.1□	4□.□	4□.□1	
M114MW00□	4□□.7□						4□.77□	4□.77□0	4□.77□	4□.77□1	4□.7□□0	
M114MW00□	4□□.□4□						4□.77.7□	4□.77□	4□.77□1	4□.77□□	4□.77.47	
M114MW004□MW□□1□□	4□□.4.7□	4□.7□00	4□.7□□□	4□.7□.1□	4□.7□.0□	4□.7□□0	4□.7□□□	4□.7□.7□	4□.7□□□	4□.7□□4	4□.74.74	
M117MW001	4□□□.7□						4□□.7.04	4□□.7.10				
M117MW00□	4□□.7□□7						4□□1.□□□	4□□1□.0□				
M117MW00□	4□□.□.□□						4□□1.□0□	4□□1.□□□				
M117MW004	4□□.□.□□											
M□□1MW001	4□□44.47						4□□00.□□	4□□01.□7	4□□01.0□	4□□01.□□	4□□01.□0	
M□□1MW00□	4□□4.□□						4□□00.7□	4□□00.□□	4□□00.□□	4□□00.□4	4□□00.□□	
M□□1MW00□□MW□□17□	4□□4.□11	4□.01.00	4□□00.□□				4□□00.□1	4□□01.□1	4□□01.0□	4□□01.□□	4□□01.□□	
M□□1MW004	4□□4.□71						4□1.□□7□	4□1.□□□□	4□1.□□□□	4□1.□□□□	4□1.□□□0	
M□□□MW001□□MW□□1□□	4□.□□.□□0	4□□□1.00	4□□□.0□□□	4□□□.0□□□	4□□□.□□□4	4□□□.□□□7	4□□□.0□7	4□□□.0.4□	4□□4.□□1	4□□□.1□□4	4□□□.0□□7	
M□□□MW001□	4□□□.□7□											
M□□□MW001	4□□□.0.11						4□□.0□.11					
MW□□1	4□□.□□.□□											
MW□□□	4□□.□□.□□	4□.171.00	4□.171.□7	4□.171.4□	4□.171.□4	4□.171.□1	4□.171.□□	4□.171.□□	4□.171.7□	4□.171.7□	4□.171.70	
MW□□□	4□□.71.04	4□.147.00	4□.14.□7□									
MW□□4	4□□.0□.10	4□.1□.0.00				4□.1□□.□□			4□.1□.1□□	4□.17.□01	4□.17.□□□	
MW□□□	4□□.□4.□□	4□.17.□00	4□.17.□□□	4□.17.□□□		4□.177.□□						
MW□□□	4□□7.□□□	4□.1□□.00				4□.1□□□7						
MW□□7	4□□□.□□1	4□.1□4.00	4□.1□□.□□	4□.1□□.□□	4□.1□□.□□							
MW□□□	4.4□□.4□	4□□□.0.00			4□□□.□04	4□□□.□□4			4□□□.□□.□□	4□□□.0.47	4□□□.□□.01	
MW□□□	□□□	4.4□.1.00	4.4□□□.0									
MW□□10	4□.41.□□	4□□□.□.00	4□□□.□□□0		4□.00.□.0							
MW□□11	□□□	4□.4□.00										
MW□□1□	□□□	4□□□.1.00										
MW□□1□	□□□	4.1□□.00										
MW□□14	4□□.1.□7	4□.1□.□.00	4□.14.□.0	4□.1□.□□□	4□.1□.□.0□	4□.1□.□□□	4□.1□.□.0□	4□.1□.□□7			4□.1□.□□1	
MW□□1□	4□□□.□□.□□					4.1□□.4□	4.1□.□□□	4.1□.□□□4	4.1□.□7.10	4.1□.0.□1		
MW□□1□	4□□□.□□.□□						4.1□.□□7	4.1□.□1□	4.1□.7.10	4.1□.0.□1		
MW□□□0	4□□□.□□□7					4□.□0.□□□	4□.□0.□□4	4.1□.□□□	4□.□0.□□7	4□.□0.□□□	4□.□0.□□□	
MW□□□1	4□.□0.□□□					4.1□□.4□	4.1□.□□□	4.1□.4.□0	4.1□.4.0□	4.1□.4.04	4.1□.□□□	
MW□□□	4□.□0.□□□					4.1□□.□4	4.1□.□□□	4.14.□□□	4.1□.□□□	4.1□.□□□	4.1□□.77	
MW□□1	4□.41.01	4.1□□.00	4.1□.0.1□	4.1□.0.11	4.1□.0.1□	4.1□□.71	4.1□.7.01		4.110.11	4.10.□□1		
MW□□□	4□□□.□□.□□	4.1□□.00	4.1□□.07	4.1□□.01		4.1□.4.□□				4.1□.4.□□		
MW□□□	4□□□.□□.□□	4.1□□.00	4.1□□.□□	4.1□□.□1		4.1□□.□1	4.1□.7.0□					
MW□□4	4□□.0.□□	4.171.00	4.171.0□	4.171.0□	4.170.□□	4.170.□□	4.170.□□		4.170.□7	4.170.□□	4.170.10	
MW□□□	4.1□□.4□	4.1□.4.00				4.1□.4.□7	4.1□.4.□1		4.1□□.□□	4.1□□.74	4.1□□.4	
MW□□□	4□.04.□1	4.1□□.00	4.1□.7.□7	4.1□.7.□□	4.1□.7.□7	4.1□.7.□4	4.1□□.1□	4.1□□.01	4.1□□.01	4.1□□.0□	4.1□□.□□	
MW□□7	4□□□.□□0	4.1□.4.00	4.1□□.□1	4.1□□.□□	4.1□□.□1	4.1□□.41	4.1□□.□□		4.1□□.□0	4.1□□.7	4.1□□.1□	
MW□□□	4□□.□□.0□	4.1□□.00	4.1□.7.41	4.1□.7.41	4.1□.7.□□	4.1□.7.□1	4.1□□.1□		4.1□.7.□□		4.1□.7.□□	
MW□□□	4□.41.□1	4.1□□.00					4.1□.7.11		4.1□□.71	4.1□□.□□	4.1□□.□□	
MW□□10	□□□	4□□□.1.00			4□□□.1.□□							
MW□□11	□□□	4□□□.□□.00										
MW□□1□	□□□	4.404.00										

[1] □□□□□□□□□□r□□00□□□r□□□d□□□□r□□□□d□□□□□□□□□□"□□ □d□□□□□□□□d□□□□□□r□□□□□"□□□□□□00□□□□d□□00□□□□□□□□ □□□□□004□□

TABLE 5
GROUND WATER LEVELS

MELROSE
AIR FORCE RANGE

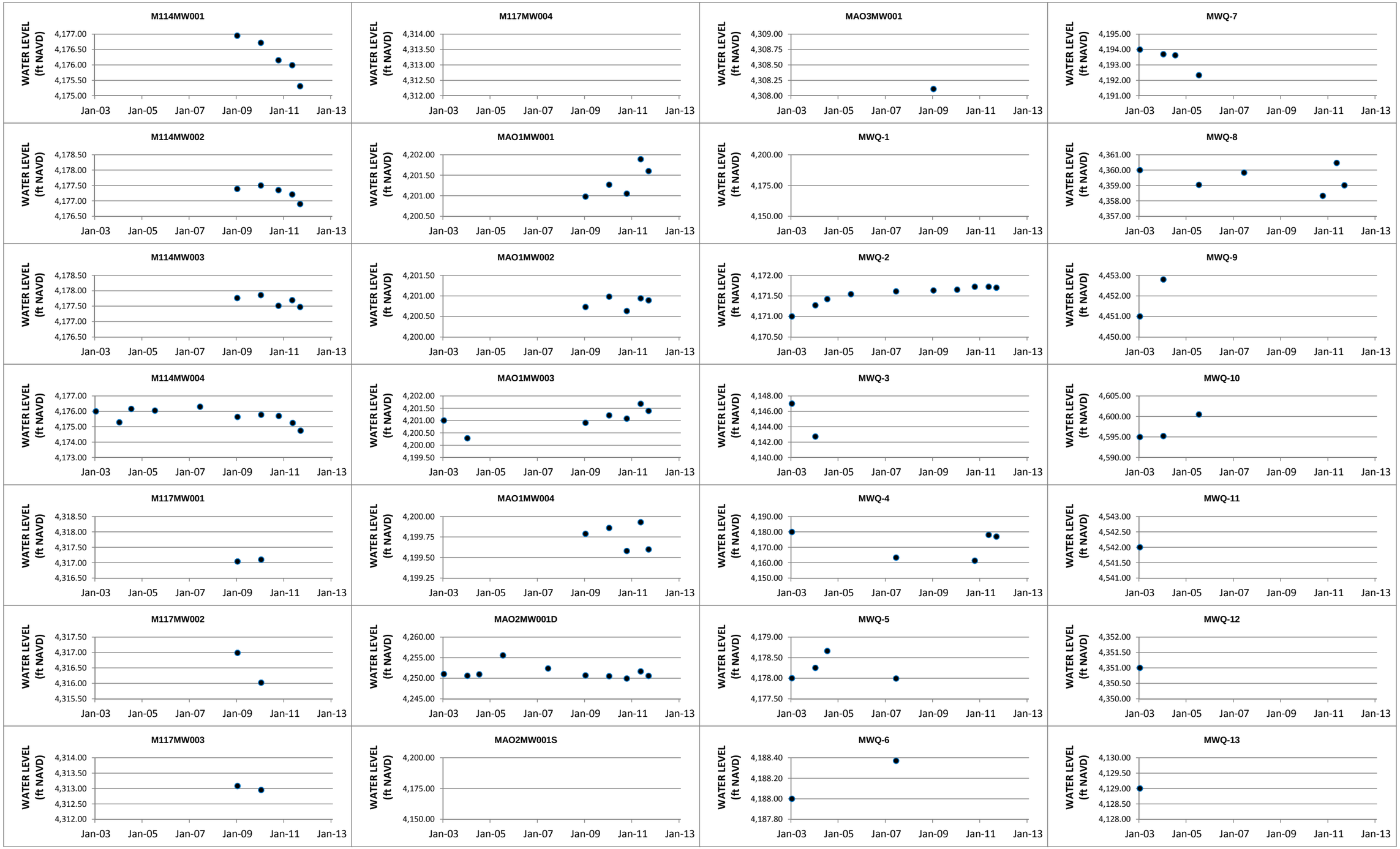

TABLE 5
GROUND WATER LEVELS

MELROSE
AIR FORCE RANGE

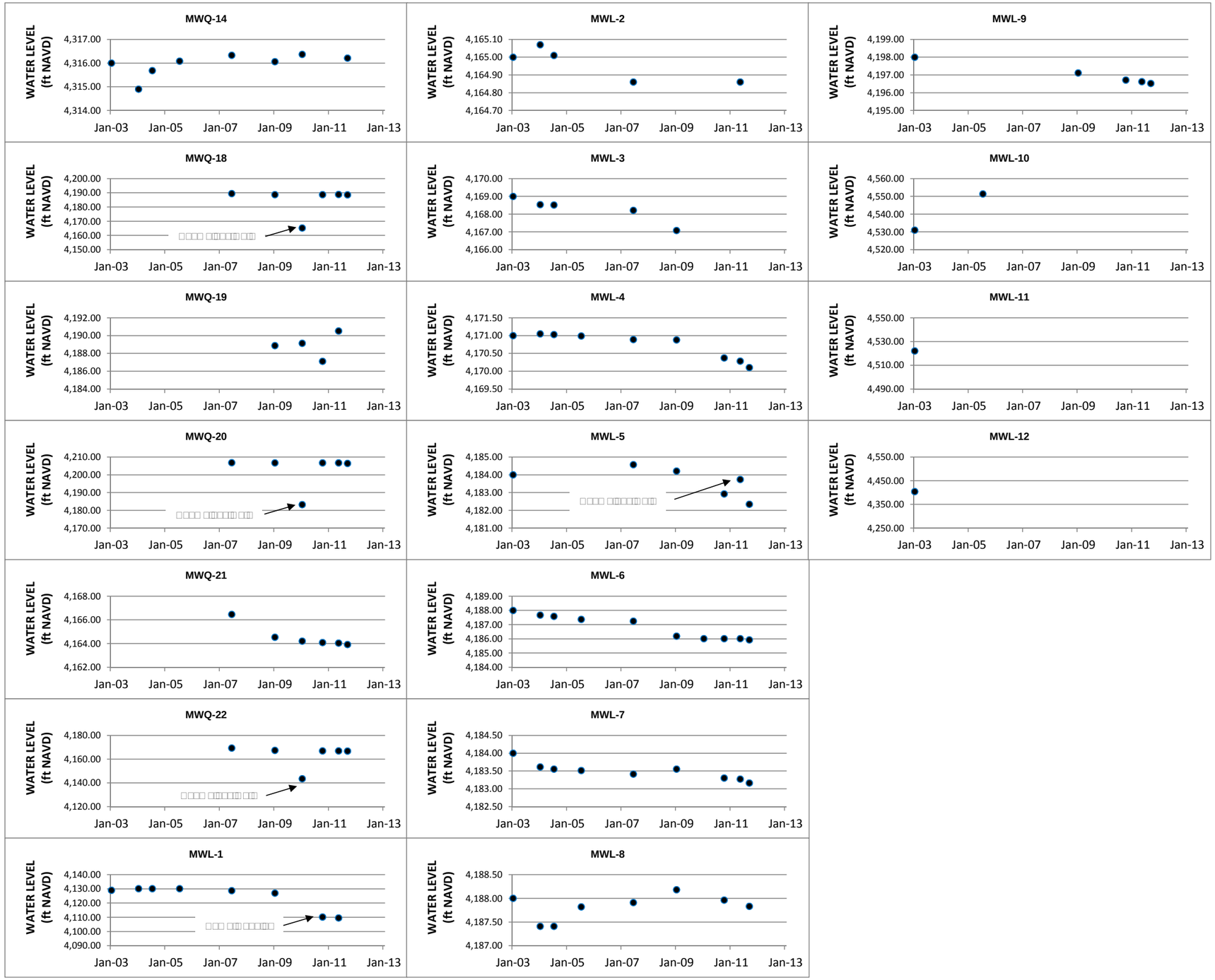

TABLE 5
GROUND WATER LEVELS

APPENDIX A

Field Data

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Ground Water Sampling Logs

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DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Melrose AFR	SITE LOCATION:	Melrose AFR	
WELL NO:	MWQ 23	SAMPLE ID:	MWQ-23	DATE: 5/16/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
NA	NA	NA feet to NA feet	NA	~~NA~~ ESP JMK

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1018	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1018			2								
1024	12	12	2	–	7.90	19.37	2447	.25/2.7	0.57	clear	-12.1
1029	12	24	2	–	7.92	19.44	2450	.21/2.3	0.41	clear	-16.2
1034	12	36	2	–							
* 1036	S topped										
1044			2	Started							
1046			2	~~7.94~~	7.94	19.52	2456	.63/6.7	.99	clear	11.8
1051	24	60	2		7.96	19.21	2438	0.34/3.6	.30	clear	-14.9
1056	12	72	2		7.97	19.23	2450	.17/1.8	.22	clear	-20.5
1101	12	84	2		7.88	1945	2442	.12/1.3	.99	clear	-22.3
1106	12	96	2					.11/1.2	.37	clear	-22.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT:
~~HH~~ 08 ~~BH~~ 100 2	7.98 19.54 2442 7.99 19.58 2445		

PUMP OR TUBING DEPTH IN WELL (feet): Tainty	~~SAMPLE PUMP~~ FLOW RATE (mL per minute):	TUBING MATERIAL CODE: .32 clear -22.2
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION .12/1.3			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
					Divide by 1000			
					should be 2.442			

REMARKS: Livestock Well * Had to adjust timer on pump.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR (SWMU 114)		SITE LOCATION: Melrose AFR	
WELL NO: M114MW001	SAMPLE ID: M114MW001		DATE: 5/9/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.03	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 207.5 feet) + ~~0.5~~ 0.05 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 174	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 174	PURGING INITIATED AT: 0832	PURGING ENDED AT: ~~0920~~ 1020	TOTAL VOLUME PURGED (gallons): ~~14.04~~ 7.54 TMK

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0832			.13						953 TMK		10.53
0845			.13	154.10							
0908	4.68	4.68	.13	158.96	7.46	22.22	1284	1.32/15.9%	16.8	clear	30.9
0913	0.65	5.33	.13	159.57	7.59	22.26	1278	1.43/17.2%	11.7	clear	16.6
0918	0.65	5.98	.13	160.54	7.64	21.95	1260	1.88/22.5%	10.6	clear	15.3
0923	0.65	6.63	.13	161.49	7.66	22.22	1243	2.30/27.7%	6.77	clear	13.9
0928	0.65	7.28	.13	162.39	7.68	22.01	1232	2.85/34.2%	4.77	clear	17.2
0933	0.65	7.93	.13	162.77	7.70	21.97	1228	3.16/37.4%	5.34	clear	17.4
0938	0.65	8.58	.13	163.18	7.70	22.05	1245	3.05/36.3%	4.35	clear	16.3
0943	0.65	9.23	.13	163.74	7.72	22.99	1240	3.03/36.7%	4.08	clear	16.7
0948	0.65	9.88	.13	164.42	7.73	23.81	1233	3.00/36.8	3.51	clear	12.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity ADC	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 174.0	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW14 MW001	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY (X) TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0953	.65	10.53	.13	164.80	7.73	23.56	1230	3.02/31.0	3.40	clear	125

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR SWMU 114		SITE LOCATION:	
WELL NO: M114 MW002	SAMPLE ID:		DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 150.74	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
~~183.41~~ JMK = (~~192.1~~ JMK feet – ~~150.74~~ JMK feet) X .65 gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 177.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 177.4	PURGING INITIATED AT: 950	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 11.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
~~0930~~											
0950			.12								
0959	1.08		.12	152.11							
1008	.84		.12	153.42	6.96	20.54	1304	5.26/60.1	34.0	clear	154.5
1014	.72		.12	153.83	7.33	19.43	13.99	2.41/27.6	64.1	clear	83.2
1019	0.60	3.24	.12	154.50	7.41	19.97	14.10	2.05/23.6	68.1	clear	73.5
1024	0.60	3.84	.12	154.97	7.44	19.91	1406	2.05/23.4	65.4	clear	70.4
1029	0.60	4.44	.12	156.28	7.46	20.73	13.86	1.96/22.8	49.9	clear	68.0
1034	0.60	5.04	.12	156.88	7.29	21.30	1378	1.90/22.4	43.4	clear	66.5
1040	0.72	5.76	.12	158.00	7.48	21.29	1364	1.94/23.0	39.8	clear	66.1
1045	.60	6.36	.12	158.25	7.49	21.50	1264	2.31/27.4	31.1	clear	62.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 177.4	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

90 NW Beal Parkway, Suite A-2
Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: M114MW002	SAMPLE ID:	DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
SEE PREVIOUS PAGE				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1050	.60	6.96	.12	158.75	7.50	21.16	1352	2.60/30.5	25.0	clear	63.0
1056	.60	7.56	.12	159.18	7.52	21.17	1334	2.77/32.7	22.5	clear	59.2
1100	.60	8.16	.12	159.63	7.49	21.30	1319	2.90/34.3	21.4	clear	64.3
1105	.60	8.76	.12	160.01	7.49	21.56	1318	3.01/35.7	19.4	clear	66.3
1110	.60	9.36	.12	161.03	7.39	21.26	1314	3.32/39.0	17.9	clear	62.3
1115	.60	9.96	.12	161.55	7.51	22.10	1311	3.36/40.4	17.8	clear	55.3
1120	.60	10.56	.12	162.45	7.49	21.84	1310	3.42/40.8	13.3	clear	53.2
1125	.60	11.16	.12	162.88	7.49	22.09	1302	3.50/41.9	11.8	clear	54.6
1130	.60	11.76	.12	163.50	7.52	22.40	1305	3.44/41.4	9.46	clear	54.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 114	SITE LOCATION: Melrose AFR	
WELL NO: M114 MW003	SAMPLE ID: M114 MW003	DATE: 5/6/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.77	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (~~184.4~~ NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 192 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 176	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 176	PURGING INITIATED AT: 1328	PURGING ENDED AT: 1426	TOTAL VOLUME PURGED (gallons): 11.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1328			0.20								
1341	2.6	2.6	0.20	155.30	7.63	20.58	1589	3.21/37.5	25.3	clear	181.8
1346	1.0	3.6	0.20	156.63	7.69	21.00	1587	2.79/33.0	26.2	clear	174.1
1351	1.0	4.6	0.20	157.56	7.53	20.95	1586	2.72/32.1	20.2	clear	163.3
1356	1.0	5.6	0.20	158.63	7.43	21.22	1584	2.67/31.7	17.1	clear	160.9
1401	1.0	6.6	0.20	159.35	7.62	21.37	1584	2.65/31.7	15.5	clear	160.8
1406	1.0	7.6	0.20	160.09	7.48	21.39	1588	2.59/31.0	18.1	clear	162.0
1411	1.0	8.6	0.20	160.86	7.54	21.24	1582	2.49/30.1	14.6	clear	161.1
1416	1.0	9.6	0.20	161.36	7.59	21.66	1583	2.59/31.1	15.8	clear	163.5
1421	1.0	10.6	0.20	161.80	7.63	22.35	1583	2.41/29.7	14.0	clear	170.4
1426	1.0	11.6	0.20	162.59	7.62	21.67	1580	2.57/31.2	14.2	clear	163.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 176	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SWMU 114	SITE LOCATION:	Moron AFR
WELL NO:	M114MW004	SAMPLE ID:	M114 MW 004
DATE:	5/6/11		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4	NA feet to NA feet	149.54	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (184 feet – 149.54 feet) X 0.65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~10~~ 0.5 gallons + (0.0026 gallons/foot X 208 feet) + ~~10~~ 0.5 gallons = ~~11~~ 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
176	176	1402	1514	11.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1402			.16								
1408	.96		.16	150.75	8.10	21.41	1556	.71/8.3	4.80	clear	200.6
1413	.80	1.76	.16	151.26	8.03	21.93	1550	.54/6.4	10.1	clear	210.5
pH check 1418	0.80	2.56	.16	—	—	—	—	—	—	—	—
1422	0.64	3.2	.16	152.99	7.77	21.80	1546	0.85/10.1	3.87	clear	211.0
1427	0.80	4.0	.16	153.80	7.86	21.99	1541	0.76/9.2	3.86	clear	207.1
1432	0.80	4.80	.16	154.87	7.89	22.41	1536	0.89/10.8	4.54	clear	210.0
1437	0.80	5.60	.16	155.29	7.89	22.14	1530	1.03/12.5	3.06	clear	209.4
1442	0.80	6.40	.16	156.19	7.90	22.20	1523	1.20/14.5	4.32	clear	210.0
1447	0.80	7.20	.16	157.38	7.91	22.40	1514	1.47/17.5	4.62	clear	212.0
1452	0.80	8.00	.16	158.24	7.92	22.41	1515	1.89/22.9		clear	209.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TRINITY		1516	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
176			

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: Checked pH 7 buffer – 7.12

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: M114MW004	SAMPLE ID:	DATE: 5/8/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

SEE PREVIOUS PAGE

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
~~1457~~	~~.80~~	~~8.80~~	~~.16~~								
1459	1.12	9.12	.16	159.24	7.94	22.27	1507	2.83/35.3	4.00	clear	211.1
1504	.80	9.92	.16	159.69	7.94	22.85	1502	2.64/32.2	3.94	clear	213.5
1509	.80	10.72	.16	160.64	7.95	22.00	1494	3.08/36.9	3.02	clear	209.0
1514	.80	11.52	.16	161.45	7.95	22.51	1420	3.05/36.6	3.03	clear	211.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1516	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: ~ 8 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
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GROUNDWATER SAMPLING LOG

SITE NAME:	Gumm 130	SITE LOCATION:	Melrose AFR
WELL NO:	MA01 MW001	SAMPLE ID:	MA01 MW001
DATE:	5/9/11		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4		142.58	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
161	161	1210	1415	15.57

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210			.09								
1216	.54	.54	.09	143.38	7.80	21.05	3716	—	348	—	54.4
1221	.45	.99	.09	143.53	7.61	21.53	3595	5.30/61.2	403	~~clear~~	39.2
1226	.45	1.44	.09	143.76	7.59	22.09	3560	4.99/57.8	349	cloudy	29.5
1231	.45	1.89	.09	143.88	7.63	22.84	3589	5.41/63.3	298	cloudy	26.7
1241	.90	2.79	.09	144.35	7.61	22.42	3563	5.27/61.3	184	cloudy	28.1
1251	.90	3.69	.09	144.70	7.65	22.19	3554	5.57/64.8	95.3	cloudy	29.0
1301	.90	4.59	.09	145.28	7.35	22.85	3532	5.31/62.2	65.8	cloudy	30.3
1311	.90	5.49	.09	145.63	7.36	22.96	3517	5.24/61.5	53.2	slightly cloudy	34.1
1321	.90	6.39	.09	145.63	7.61	22.31	Lost flow				
1335	.68	7.07	.17	146.35	7.66	22.89	3478	5.41/70.3	53.2	slightly cloudy	59.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TRINITY			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
161			

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: units wrong move decimal three left

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO: MA01 MW001	SAMPLE ID:
	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= feet – feet) X gallons/foot = gallons

SEE PREVIOUS PAGE

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1355	1.7	8.77	.17	147.48	7.66	22.95	3416	6.32/74.4	22.1	clear	76.9
1345	1.7	10.47	.17	148.22	7.69	23.27	3416	6.10/72.5	18.8	clear	51.4
1355	1.7	12.17	.17	148.75	7.75	23.07	3427	6.30/74.1	12.5	clear	40.5
1400	.85	13.02	.17	149.10	7.73	22.96	3394	6.34/74.8	11.7	clear	38.5
1405	.85	13.87	.17	149.16	7.77	24.35	3405	~~5.57/67.2~~	10.3	clear	35.3
1410	.85	14.72	.17	149.80	7.76	22.37	3377	6.12/74.1	10.6	clear	35.6
1415	.85	15.57	.17	150.40	7.73	22.95	3387	5.98/72.3	10.1	clear	34.5
							move decimal 3				
							or divide by 1000				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1416	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: DO @ 1407 6.49

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130	SITE LOCATION: Melrose AFR	
WELL NO: MA01MW002	SAMPLE ID: MA01MW002	DATE: 5/16/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 142.44	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: only fill out if applicable — **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (~~157~~ JMK feet – ~~.08~~ JMK feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) — **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0.5 gallons + (~~0.5~~ 0.0026 gallons/foot X ~~0.0026~~ 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 154	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 154	PURGING INITIATED AT: 830	PURGING ENDED AT: 933	TOTAL VOLUME PURGED (gallons): 5.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	~~COND.~~ (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
830			.08								
858	2.24	2.24	.08	146.14	7.97	20.46	3215	4.24/47.6	3.44	clear	12.5
908	.80	3.04	.08	146.78	8.01	21.12	3204	4.49/50.9	1.92	clear	2.5
913	.40	3.44	.08	147.54	8.02	21.23	3193	4.43/50.5	1.68	clear	1.6
918	.40	3.84	.08	148.10	8.05	21.54	3192	4.57/52.3	2.20	clear	0.1
923	.40	4.24	.08	148.49	8.06	21.70	3182	4.39/50.3	1.75	clear	−0.3
928	.40	4.64	.08	148.98	8.06	21.80	3178	4.55/52.5	1.18	clear	−0.4
933	.40	5.04	.08	149.33	8.07	21.94	3174	4.77/54.9	1.13	clear	−1.5
							move decimal				
							3215 should read as 3.215				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TZIN TG	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 935	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 154	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130	SITE LOCATION: Milton AFR	
WELL NO: MA01MW003	SAMPLE ID: MA01MW003	DATE: 5/10/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 143.43	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 175 feet) + 0.5 gallons = 1.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~140~~ 160	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~140~~ 160	PURGING INITIATED AT: 1217	PURGING ENDED AT: 1317	TOTAL VOLUME PURGED (gallons): 7.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1217			.13								
1227	1.3	1.3	.13	144.76	7.21	21.81	2857	6.53/74.9	5.65	clear	154.7
1237	1.3	2.6	.13	146.38	7.23	22.0	2793	6.04/69.2	2.50	clear	108.1
1247	1.3	3.9	.13	147.86	7.01	22.44	2751	5.98/69.3	3.56	clear	96.0
1257	1.3	5.2	.13	149.3	7.07	22.67	2737	5.89/69.1	1.57	clear	83.9
1307	1.3	6.5	.13	151.03	7.17	22.62	2719	5.83/68.7	1.43	clear	80.0
1317	1.3	7.8	.13	152.43	7.09	22.69	2741	5.66/66.1	2.21	clear	81.9
							more decimal				
							2857 should read 2857				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 160	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Environmental & Engineering Services

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 130		SITE LOCATION: Melrose AFR
WELL NO: MAOMW004	SAMPLE ID: MAOMW004	DATE: 5/10/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 142.78	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 170 feet) + 0.5 gallons = 1.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 159	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 159	PURGING INITIATED AT: 945	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 6.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
945			.08								
1016			.08		7.03	24.13	1849	5.73/68.2		clear	60.6
1020	lost		flow								
1033	gained		flow								
1035	2	3.2	.08	144.96	7.06	20.36	1835	7.35/81.6	34.1	clear	60.3
1040	.40	3.60	.08	145.69	7.08	20.89	1828	6.89/77.7	20.6	clear	74.7
1045	.46	4.00	.08	146.35	7.04	21.17	1837	7.09/80.3	15.2	clear	61.2
1050	.40	4.40	.08	147.36	7.01	21.41	1833	7.00/79.6	9.52	clear	57.6
1055	.40	4.80	.08	148.49	7.02	21.36	1833	6.76/77.0	6.63	clear	56.4
1100	.40	5.20	.08	149.78	7.08	21.48	1832	6.97/79.2	5.44	clear	54.9
1105	.40	5.60	.08	150.54	7.10	21.49	1834	6.90/78.6	5.47	clear	54.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1111	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 159	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: For all results for COND. move decimal 1.834

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO: MA01MW004	SAMPLE ID:
DATE:	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

SEE PREVIOUS PAGE

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1100	.40	6.00	.08	15.45	7.08	21.43	1834	7.10/80.4	4.82	clear	54.3
							↓				
							should be 1.834				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: SWMU 131	SITE LOCATION: Melrose	
WELL NO: MA02MW0010	SAMPLE ID:	DATE: 5/5/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 104.56	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (184.50 feet – 104.56 feet) X .65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.10~~ 0.5 gallons + (~~.002~~ .026 gallons/foot X 185 feet) + ~~.10~~ 0.5 gallons = 1.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 170	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 170	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1249	TOTAL VOLUME PURGED (gallons): 10.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1050			.25								
1103	3.25		.25	108.38	8.06	19.62	1122	0.57/6.3%	30.5	clear	-16.9
1108	1.25	4.50	.25			19.70	1095	0.36/4.2%		clear	2.3
1115	Stopped	pump	burnt								
1148			.19	109.21	8.16	19.28	1101	.26/2.8	18.6	clear	-17.1
1200	2.28	6.78	.19	110.97	7.94	19.58	1085	.24/2.7	15.4	clear	-4.9
1205	.98	7.73	.19	112.68	7.95	19.63	1077	0.20/2.3%	13.2	clear	-10.5
1210	.95	8.68	.19	114.26	7.96	19.77	1069	0.17/1.9%	9.02	clear	-10.0
1215	.95	9.63	.19	115.53	7.94	19.83	1058	0.18/2.0%	6.17	clear	-7.0
1220	.95	10.58	.19	116.5	7.92	19.88	1060	0.16/1.8%	4.80	clear	-11.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1223	SAMPLING ENDED AT: 1249
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Field split 12 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Melrose AFR	SITE LOCATION:	Melrose AFR	
WELL NO:	MWL 6	SAMPLE ID:	MWL 6	DATE: 5/18/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
6	1/4	~~NA~~ feet to ~~NA~~ feet	118.59	ESP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 1.38
(only fill out if applicable)
= ~~NA~~ 0.5 gallons + (~~NA~~ 0.0026 gallons/foot X ~~NA~~ 145 feet) + ~~NA~~ 0.5 gallons = ~~NA~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~~NA~~ 135	~~NA~~ 135	1100	1425	47.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1100			.30								
1230		27	.30	119.09	7.55	20.0	981	3.59/39.6	49.1	cloudy	-6.8
1250	6	33	.30	119.12	7.48	19.97	981	3.73/41.7	19.4	slightly cloudy	-11.9
1310	6	39	.30	119.03	7.48	19.94	976	3.88/42.7	84.9	slightly	-13.8
1330	6	45	.30	119.04	7.47	20.24	976	3.98/44.1	47.2	clear	-16.3
1331			.05	Changed		purge		rate			
1340	.50	45.5	.05	118.71	7.49	21.34	982	3.50/39.6	38.6	clear	-18.0
1350	.50	46.0	.05	118.83	7.48	20.74	980	3.69/41.0	37.3	clear	-18.5
1400	.50	46.50	.05	118.75	7.49	20.84	982	3.46/38.8	28.5	clear	-19.5
1410	.50	47.0	.05		7.51	21.77	983	3.25/37.0	26.5	clear	-18.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Trinity			

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:

FIELD DECONTAMINATION: Y N
FIELD-FILTERED: Y N FILTER SIZE: ____ µm
Filtration Equipment Type: _____
DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS: Drillers removed ~20 gal w/bailer. DO readings with lower SP

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MWL 6	SAMPLE ID:	DATE: 5/18/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
SEE PREVIOUS PAGE
gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORT ODOR (describe)
1420	.50	47.50	.05	118.75	7.52	21.65	987	3.26/37.0	27.0	clear	-18.5
1425	.25	47.75	.05	118.75	7.50	21.53	984	3.48/39.8	25.7	clear	-18.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION: Melrose AFR	
WELL NO: MWQ2	SAMPLE ID: MWQ-2	DATE: 5/5/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 121.96	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (241 feet – 121.96 feet) X .65 gallons/foot = 77.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 819	PURGING ENDED AT: 930	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
819			.39								
845	10.1	10.1	.39	149.5	7.61	18.92	1264	.42 / 4.7%	2.71	clear	-23.9
847			.13								
~~855~~	~~1.3~~	~~11.4~~	—								
851			.16								
855	1.6	12.7	.16	153.0	7.69	18.93	1265	.39 / 4.4%	2.74	clear	-25.8
905	1.6	13.3	.16	156.5	7.74	19.15	1267	.54 / 6.1%	2.04	clear	-26.0
915	1.6	14.9	.16	159.20	7.76	20.17	1266	.40 / 4.6%	1.79	clear	-27.2
925	1.6	16.5	.16	161.73	7.79	19.63	1267	.39 / 4.4%	2.02	clear	-27.2
938				164.22							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 926	SAMPLING ENDED AT: 930
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: Change of flow rate at 847, 851

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION: Melrose AFR	
WELL NO: MW03	SAMPLE ID: MW03	DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – 50 feet) X 1.47 gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + 912 gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 835	PURGING ENDED AT: ~~920~~ 922	TOTAL VOLUME PURGED (gallons): ~~210~~ 229.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
835			6.2								
842	43.4		6.2		7.35	18.41	0.980	6.19/66.2	0.24	clear	-14.9
847	31	74.4	6.2		7.46	18.44	0.980	6.04/64.7	0.13	clear	-16.4
852	31	105.4	6.2		7.47	18.43	0.980	6.17/65.8	0.19	clear	-16.8
857	31	136.4	6.2		7.48	18.43	0.980	6.20/66.2	0.18	clear	-17.6
902	31	167.4	6.2		7.48	18.43	0.949	6.23/66.7	0.10	clear	-19.1
907	31	198.4	6.2		7.48	18.43	0.949	6.24/66.6	0.22	clear	-20.1
912	31	229.4	6.2		7.48	18.42	0.949	6.23/66.6	0.14	clear	-20.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0922
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS: Pressure tank ~ 55 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION: Melrose AFR	
WELL NO: MWQ4	SAMPLE ID: MWQ-4	DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (46.5 feet – 25.09 feet) X 1.47 gallons/foot = 32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~NA~~ gallons + (~~NA~~ gallons/foot X NA feet) + NA gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 959	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (gallons): 110.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
959			4.1								
1007	32.8		4.1	27.45	7.13	16.21	.699	5.75/58.6	1.44	clear	4.2
1012	20.5	53.3	4.1	30.11	7.15	16.19	.700	5.97/60.8	1.44	clear	12.4
1017	20.5	73.8	4.1	34.38	7.16	16.16	.707	6.01/61.2	0.26	clear	17.1
					7.16	16.17	.702	5.89/60.0	—	clear	20.0
		SAMPLE 1018–1025									
1026				42.94							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1018	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

90 NW Beal Parkway, Suite A-2
Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION: Melrose AFS	
WELL NO: MW05	SAMPLE ID:		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6"	TUBING DIAMETER (inches): 0	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – 50 ? feet) X 1.47 gallons/foot = 228.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1200	TOTAL VOLUME PURGED (gallons): 380

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1120			9.5								
1130	95	95	9.5		7.16	17.60	.792	5.82/61.3	0.30	clear	-1.6
1135	47.5	142.5	9.5		7.12	17.58	.791	5.74/60.1	0.10	clear	-2.6
1140	47.5	190.0	9.5		7.19	17.58	.791	5.67/59.4	0.34	clear	-3.5
1145	47.5	237.5	9.5		7.21	17.57	.792	5.70/59.8	0.09	clear	-0.10
1150	47.5	285	9.5		7.22	17.57	.793	5.73/60.1	0.31	clear	0.50
1155	47.5	332.5	9.5		7.22	17.56	.793	5.71/60.0	0.20	clear	0.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart / Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1157	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
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Environmental & Engineering Services

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION: Melrose AFR	
WELL NO: MW-Q-6	SAMPLE ID: MWQ6	DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – 50? (out this much ss) feet) X 1.47 +100 gallons/foot = 173.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1315	TOTAL VOLUME PURGED (gallons): 350

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1240			10								
1250	100		10		7.20	18.03	.725	5.95/63.0	0.64	clear	-11.4
1255	50	150	10		7.21	18.06	.726	5.90/62.5	0.23	clear	-10.2
1300	50	200	10		7.23	18.05	.726	5.84/61.8	0.15	clear	-9.5
1305	50	250	10		7.23	18.06	.726	5.87/62.2	0.37	clear	-9.11
1310	50	300	10		7.25	18.05	.726	5.83/61.6	0.27	clear	-9.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1312	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: Melzoso AFR		SITE LOCATION: Melrose AFB	
WELL NO: MWQ-7	SAMPLE ID: MWQ-7		DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches): 6 ~~NA~~	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: ~~NA~~ feet to ~~NA~~ feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= NA gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1332	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 345

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1332			15								
1337	75		15		7.14	18.27	.972	6.58/72.9	0.43	clear	-3.0
1340	45	120	15		7.15	18.49	.969	6.65/71.1	0.59	clear	-8.4
1343	45	165	15		7.19	18.48	.970	6.58/70.4	1.27	clear	-8.4
1346	45	210	15		7.21	18.46	.970	6.58/70.3	0.44	clear	-7.1
1349	45	255	15		7.22	18.43	.971	6.60/70.5	0.31	clear	-6.2
1352	45	300	15		7.22	18.41	.971	6.60/70.5	0.17	clear	-4.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1355
BS JK/Trinity			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

TRINITY
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Environmental & Engineering Services

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Fort Walton Beach, Florida 32548
Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	Mol20-01 AFR	SITE LOCATION:	Melrose AFR	
WELL NO:	MWQ-[redacted] 10 [redacted]	SAMPLE ID:	MWQ-[redacted] 10 [redacted]	DATE: 5/3/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
6	NA	NA feet to NA feet	NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = 128.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1459			6.1								
1504	30.5		6.1		6.94	17.50	.844	7.19/111.9	0.17	clear	-12.7
1507	18.3		6.1		6.96	17.49	.845	6.68/70.0	2.06	clear	-11.5
1510	18.3	67.1	6.1		6.97	17.64	.846	6.67/70.1	1.40	clear	-9.6
1513	18.3	85.4	6.1		6.99	17.81	.845	6.62/69.9	0.91	clear	-8.4
1516	18.3	103.7	6.1		7.01	17.95	.846	6.62/70.1	0.69	clear	-7.5
1519	18.3	122	6.1								
1522	18.3	140.3	6.1		7.03	18.05	.846	6.65/70.5	1.32	clear	-4.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TRINITY		1523	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR	SITE LOCATION:	
WELL NO: MW-14	SAMPLE ID:	DATE: 5/13/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 66.40	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) N/A
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1250	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1140			.20								
1155	3.00	3.00	.20	69.1	7.93	19.04	4171	3.80/41.4	4.51	clear	39.5
1205	2.00	5.00	.20	70.93	7.15	18.92	4195	3.95/43.1	3.73	clear	31.6
1215	2.00	7.00	.20	72.61	7.97	19.07	4198	3.76/40.9	3.76	clear	28.3
1220	1.00	8.00	.20	73.49	7.98	19.05	4196	3.88/42.5	3.00	clear	27.0
1225	1.00	9.00	.20	74.50	7.98	19.06	4197	3.83/41.8	2.66	clear	25.9
1230	1.00	10.00	.20	75.45	7.99	19.18	4197	3.81/41.8	2.29	clear	25.0

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1231	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): 120	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

TRINITY
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Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME: MW2 18	SITE LOCATION: Melrose AFR	
WELL NO: [redacted]	SAMPLE ID:	DATE: 5/12/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 101.19	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (155 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1150			.17		c						
1156	1.02	1.02	.17	101.24	8.65	21.85	.808	0	14.0	clear	27.0
* 1201	.85	1.87	.17		8.44	22.60	.778	0		clear	17.9
1206	1.7	2.72	.17	101.28	7.67	23.09	.756	6.14/70.7	61.9	clear	36.2
1211	.85	3.57	.17	101.30	7.43	22.23	.770	6.05/69.8	38.3	clear	40.5
1216	.85	4.42	.17	101.30	7.44	21.67	.772	6.17/70.3	25.6	clear	131.2
1221	.85	5.27	.17	101.30	7.42	21.26	.769	6.01/67.7	13.0	clear	109.1
1226	.85	6.12	.17	101.30	7.43	21.25	.767	6.08/68.7	6.26	clear	91.6
1231	.85	6.97	.17	101.30	7.41	21.32	.765	5.93/67.1	3.79	clear	84.4
1236	.85	7.82	.17	101.33	7.44	21.25	.763	5.96/67.3	2.50	clear	81.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 147	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS: * Recal DO

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW219	SAMPLE ID:	DATE: 5/12/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ¼	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 99.41	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0870			.22								
918			.22	132.57	8.04	17.88	7373	.12/1.3	7.53	clear	420.3
923			.22	136.59	8.05	17.93	7353	0.10/1.1	5.40	clear	-133.0
928			.22	141.73	8.12	17.98	7315	.09/1.0	5.14	clear	-136.4
933			.22	146.95	8.14	17.98	7394	0.09/1.0	5.50	clear	-146.4
938			.22	149.01	8.20	17.98	7412	.08/0.9	4.30	clear	-157.5
943			.22	152.25	8.22	18.09	~~7289~~	.09/1.0	4.77	clear	-153.8
948			.22	154.84	8.27	18.06	7353	0.08/0.9	6.46	clear	-160.1
							Divide by 1000				
							7.353				

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 950	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = St Method (Tubing Gravity Drain); **O** = Other (Specify)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION: Melrose
WELL NO: MW20	SAMPLE ID:
DATE: 5/17/11	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 83.28	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ODOR (describe)
1115			.09	89.12	7.82	21.02	1734	0.48/5.7	269	clear	-8.8
1141	2.34		.09	89.12	7.82	21.02	1734	0.48/5.7	269	cloudy	-8.8
1151	.90	3.24	.09	92.45	7.83	21.12	1728	0.37/4.4	319	cloudy	-13.3
1201	.90	4.14	.09	96.02	7.81	20.79	1715	0.29/3.4	184	cloudy	-15.9
1211	.90	5.04	.09	98.83	7.80	21.19	1696	0.28/3.4	92.4	cloudy	-18.9
1221	.90	5.94	.09	101.98	7.81	22.62	1677	0.231 2.8	35.7	cloudy	-21.8
1231	.90	6.84	.09	104.67	7.79	20.98	1679	.22/2.6	24.9	clear	-18.4
1241	.90	7.74	.09	107.82	7.79	22.01	1668	.21 /2.5	19.6	clear	-19.5
1251	.90	8.64	.09	110.40	7.81	20.13	1668	.19/2.3	13.1	clear	-21.6
1301	.90	9.54	.09	112.70	7.82	22.97	1660	.19/2.3	11.4	clear	-23.3

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:
WELL NO: MW Q 20	SAMPLE ID:
DATE: 5/17/11	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1311	.90	10.44	.09	115.03	7.81	22.22	1696	0.18/2.2	13.8	clear	-23.3
1321	.90	11.34	.09	117.00	7.83	22.93	1706	0.17/2.3	12.4	clear	-24.0

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1322	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MWG21	SAMPLE ID:	DATE: 5/11/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 45.26	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (66.30 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1155	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1155			.12								
1202	.84	.84	.12	45.28	7.33	18.48	1807	-0.15/-1.6	71.8	clear	37.2
1212	1.2	2.04	.12	45.29	7.46	19.06	1776	-0.41/-1.1	38.5	clear	14.8
1222	1.2	3.24	.12	45.28	7.58	18.93	1746	0/0	94.4	clear	8.3
1232	1.2	4.44	.12	45.29	7.73	19.01	1727	0/0	40.8	clear	3.6
1242	1.2	5.64	.12	45.29	7.66	19.16	1723	0/0	21.3	clear	2.3
1252	1.2	6.84	.12	45.29	7.61	19.24	1717	0/0	13.5	clear	0.4
1302	1.2	8.04	.12		7.79	19.31	1717	0/0	8.71	clear	0.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 60	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Office: (850) 243-0072
Fax: (850) 243-0045

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW22	SAMPLE ID:	DATE: 5/11/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 42.41	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (154.7 feet – 42.41 feet) X .37 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 904	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
904			.47	~~52.86~~							
924	9.4	9.4	.47	52.86	7.07	17.49	3164	0.35/3.7	8.88	clear	-32.1
929	2.35	11.75	.47	53.41	6.94	17.33	2220	0.22/2.2	8.77	clear	-23.2
939	4.7	16.45	.47	54.12	6.85	17.32	1961	0.16/1.7	4.07	clear	-25.4
949	4.7	21.15	.47	54.60	6.91	17.56	1929	0.14/1.5	2.12	clear	-26.8
959	4.7	25.85	.47	54.69	6.91	17.54	1907	0.12/1.3	2.27	clear	-27.0
1009	4.7	30.55	.47	54.86	6.96	17.60	1880	0.11/1.1	1.98	clear	-27.1
1019	4.7	35.25	.47	55.09	7.12	17.81	1867	0.09/1.0	1.51	clear	-33.2
1029	4.7	39.95	.47	55.25	7.03	17.83	1847	0.08/.80	0.96	clear	-35.3
1039	4.7	44.65	.47	55.61	7.08	18.02	1831	0.08/.80	1.03	clear	-33.0
1049	4.7	49.35	.47	55.62	7.18	18.09	1820	0.07/.80	0.75	clear	-40.4

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:
MW21 45.26

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW022	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1054	2.35	51.7	.47	55.75	7.11	18.15	1816	0.07/0.7	0.65	Clear	-38.5
1059	2.35	54.05	.47	55.80	7.14	18.14	1809	0.07/0.7	1.87	Clear	-39.5

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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GROUNDWATER SAMPLING LOG

SITE NAME: Melrose AFR		SITE LOCATION: MELROSE AFR	
WELL NO: MWQ-23	SAMPLE ID: MWQ-23		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (NA gallons/foot X NA feet) + NA gallons = NA gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: 740	PURGING ENDED AT: 826	TOTAL VOLUME PURGED (gallons): 49.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0740			1.07				mS/cm	% mg/L			
0806	27.82	27.82	1.07		8.30	19.87	18.44	1.9 0.17	1.72	clear/none	-60.6
0816	10.70	38.52	1.07		8.30	19.95	1.855	1.9 0.17	1.51	clear/none	-62.2
0826	10.70	49.22	1.07		8.30	19.97	1.87	2.6 0.23	2.13	clear/none	-64.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart / Trinity AOC	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0840	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL			8260B	~~NA~~	1.07
	2	AG	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	125mL	—			6PCO Fluoride		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS: Livestock Well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

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GROUNDWATER SAMPLING LOG

SITE NAME:	M114 (SWMU 114)	SITE LOCATION:	Melrose AFR	
WELL NO:	M114MW001	SAMPLE ID:	M114MW001	DATE: 9/30/14

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4	170.3 feet to 190.3 feet	151.71	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~190.3~~ 175 feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (~~0.5~~ 0.0026 gallons/foot X ~~207.5~~ 207.5 feet) + ~~207.5~~ 0.5 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
175	175	1103	1235	15.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1103			0.14		lost	flow	mS/cm	%	mg/L			
1123			0.14									
~~1153~~	~~4.2~~	~~4.2~~	~~.20~~									
1130	2.5	2.5	.20	155.15	8.21	21.90	12.53			5.45	clear/none	-8.4
1135	1.0	3.5	.20	157.22	8.10	22.26	12.28	6.8	0.57	4.62	clear/none	1.0
1140	1.0	4.5	.20	158.70	8.10	22.24	12.09	11.6	0.96	4.37	clear/none	7.3
1145	1.0	5.5	.20	159.97	8.10	22.58	11.91	18.1	1.50	3.32	clear/none	15.1
1150	1.0	6.5	.20	161.02	8.11	22.58	11.76	21.9	1.82	3.05	clear/none	19.9
1155	1.0	7.5	.20	162.39	8.13	22.77	11.57	23.9	1.98	2.46	clear/none	25.0
1200	1.0	8.5	.20	163.00	8.15	22.37	11.74	27.8	2.33	2.60	clear/none	29.8
1205	1.0	9.5	.20	163.92	8.15	22.41	11.13	31.1	2.60	2.61	clear/none	34.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ben Stent Trinity ADC		1236	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: 0.2 / 0.45 µm
175	T		

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCl			8260B	ESP	.20
	2	AG	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & Dis		
	2	PE	150mL	—			6800 Filt & Unfilt		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C
1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: M 114 MW001	SAMPLE ID:	DATE: 9/30/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210	1.0	10.5	.20	165.42	8.14	22.46	10.87	43.3%	3.62	2.25	clear/none	40.4
1215	1.0	11.5	.20	165.97	8.14	22.68	10.86	41.5	3.44	1.86	clear/none	41.8
1220	1.0	12.5	.20	166.89	8.13	22.91	10.87	44.8	3.72	2.56	clear/none	43.8
1225	1.0	13.5	.20	168.05	8.12	23.01	10.87	52.2	4.32	3.78	clear/none	45.7
1230	1.0	14.5	.20	169.00	8.11	22.96	10.89	50.8	4.21	4.37	clear/none	47.2
1235	1.0	15.5	.20	169.74	8.11	23.08	10.95	50.6	4.19	5.10	clear/none	47.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

TRINITY
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Environmental & Engineering Services

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Shalimar, FL 32579
Office: (850) 613-6800
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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)	SITE LOCATION: Melrose AFR	
WELL NO: M114MW002	SAMPLE ID: M114MW002	DATE: 10/3/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 151.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (~~183.3~~ MK feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 180	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 180	PURGING INITIATED AT: 0827	PURGING ENDED AT: 931	TOTAL VOLUME PURGED (gallons): 12.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0827			.20	152.11			mS/cm	o/o mg/L			
0846		3.8	.20	156.30	7.82	20.8	11.24	24.5 2.08	30.1	clear/none	-11.1
0851	1.0	4.8	.20	157.56	7.86	20.83	11.03	23.3 2.01	23.6	clear/none	-13.0
0856	1.0	5.8	.20	158.97	7.89	20.96	11.77	27.3 2.37	18.6	clear/none	-6.8
0901	1.0	6.8	.20	160.59	7.91	20.96	10.65	34.1 2.94	14.6	clear/none	2.1
0906	1.0	7.8	.20	161.85	7.91	21.09	10.55	40.6 3.48	10.8	clear/none	12.7
0911	1.0	8.8	.20	163.50	7.94	21.14	10.49	44.1 3.78	9.51	clear/none	20.1
0916	1.0	9.8	.20	164.89	7.95	21.27	10.50	45.9 3.92	8.42	clear/none	27.8
0921	1.0	10.8	.20	164.89	7.96	21.33	10.50	46.6 3.98	7.56	clear/none	33.4
0926	1.0	11.8	.14	165.40	7.97	21.44	10.52	47.7 4.06	8.24	clear/none	40.1
0931	.7	12.5	.14	165.90	7.98	21.64	10.53	47.9 4.06	8.06	clear/none	44.8

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart J. Kramer Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0932	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): 180	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .2 / .45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL	—	—	8260B	ESP	.20 gpm
	2	AG	1L		—	—	8330		
	2	PE	250mL	HNO3	—	—	6010C Total & Diss		
	2	PE	150mL		—	—	6860 Filt & Unfilt		
	1	PE	500mL		—	—	7196A		
	1	PE	500mL		—	—	300.0		
	1	PE	500mL		—	—	2320B, 2540C		
	1	PE	1L	NaOH	—	—	9012A		

REMARKS: Flow changed from .2 to 2 .14

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: M114 (SWMU 114)	SITE LOCATION: Melrose AFR	
WELL NO: M114MW003	SAMPLE ID: M114MW003	DATE: 10/3/14

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 151.99	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~184 SMK~~ feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 182 feet) + 0.5 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 180	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 180	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1145	TOTAL VOLUME PURGED (gallons): 9.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1030			~~.13~~ ~~.138~~				mS/cm	%			
1100	3.6	3.6	.12	157.08	8.12	21.21	12.69	27.5	23.9	clear/none	34.0
1110	1.2	4.8	.12	158.8	8.12	21.49	12.72	27.4	35.9	clear/none	40.8
1115	0.6	5.4	.13	160.12	8.14	21.49	12.76	30.9	27.8	clear/none	45.0
1120	0.6	6.0	.12	161.22	8.14	21.63	12.75	28.9	24.9	clear/none	47.5
1125	0.6	6.6	.12	162.54	8.15	21.72	12.75	27.9	20.4	clear/none	49.8
1130	0.6	7.2	.12	163.88	8.14	21.72	12.75	27.2	19.9	clear/none	52.9
1135	0.6	7.8	.12	164.60	8.13	22.07	12.89	26.3	15.4	clear/none	53.5
1140	0.6	8.4	.12	165.30	8.13	21.92	12.83	26.6	32.9	clear/none	55.5
1145	0.6	9.00	.12		8.13	22.06	12.88	26.6	23.5	clear/none	56.6

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart J. Kramer/Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1146	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 180	TUBING MATERIAL CODE: T	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL	—	—	8260B	ESP	.12
	2	AG	1L	—	—	—	8330		
	3	PE	250mL	HNO_3	—	—	6010C Total & Diss		
	2	PE	150mL		—	—	6860 Filtered & Unfiltered		
	1	PE	500mL	—	—	—	7196A		
	1	PE	500mL	—	—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

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GROUNDWATER SAMPLING LOG

SITE NAME:	M114 (SWMU 114)	SITE LOCATION:	Melrose AFR	
WELL NO:	M114MW004	SAMPLE ID:	M114MW004	DATE: 9/30/14

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4	164 feet to 184 feet	150.04	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~184~~ JMK feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (~~0.16~~ JMK 0.0026 gallons/foot X 208 feet) + 0.5 gallons = 1.54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
180	180	0830	955	6.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0830			.08				mS/cm	%	mg/L			
0900	2.4	2.4	.08	154.95	8.06	20.26	12.66	9.6	0.83	18.90	clear/none	19.3
0910	0.8	3.2	.08	156.29	8.11	20.33	12.61	11.3	0.97	20.40	clear/none	27.5
0930	1.6	4.8	.08	159.48	8.07	21.26	12.66	15.5	1.31	14.1	clear/none	39.6
0940	0.8	5.6	.08	160.74	8.05	21.68	12.69	17.2	1.45	10.3	clear/none	49.1
0950	0.8	6.4	.08	164.70	8.05	21.35	12.59	18.1	1.53	10.4	clear/none	57.9
0955	0.4	6.8	.08	173.01	8.04	21.61	12.61	18.7	1.57	~~13.5~~ 8.05	clear/none	65.3
											~~clear/none~~	~~65.2~~ JMK 9-30-14

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ben Stewart Jonathon Kramer / Trinity		1000	—

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 0.2 / 0.45 µm
180	T		

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	CG	40mL	HCl	—	—	8260B	ESP	.08
	2	AG	1L		—	—	8330		
	2	PE	250mL	HNO3	—	—	6010C Total +0.35		
	2	PE	150mL		—	—	6860 Perch. Hard. & Unfil. Hard		
	1	PE	500mL		—	—	7196A		
	1	PE	500mL		—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C
1 PE 1L NaOH 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01MW001	SAMPLE ID: MA01MW001		DATE: 9/27/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4	149.40 feet to 169.40 feet	142.87	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (169.40 feet – 142.87 feet) X .65 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~.25~~ 0.5 gallons + (.0026 gallons/foot X 166 feet) + ~~.25~~ 0.5 gallons = ~~.93~~ 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
158	158	0852	932	7.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0852			.11				mS/cm	%	mg/L			
0852	3.3	3.3	.11	147.13	8.01	20.68	3.013	65.7	5.83	12.7	clear/none	1.6
0902	1.1	4.4	.11	147.91	8.06	20.94	2.97	66.2	5.86	8.47	clear/none	23.5
0912	1.1	5.5	.11	149.46	8.09	20.80	2.97	66.5	5.89	6.60	clear/none	36.8
0922	1.1	6.6	.11	149.57	8.10	20.78	2.90	69.0	6.18	5.16	clear/none	46.2
0932	1.1	7.7	.11	151.79	8.11	20.91	2.90	69.6	6.15	6.02	clear/none	53.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ben Stewart Solutions Knowledge Trinity		0933	—

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .45 µm .20
158			

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL	—	—	8260B	ESP	.11 gpm
	2	AG	1L	—	—	—	8330		
	2	PE	250mL	HNO_3	—	—	6010C		
	2	PE	150mL	—	—	—	6860 Filtered + Unfiltered		
	1	PE	500mL	—	—	—	7196A		
	1	PE	500mL	—	—	—	300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL 2320B, 2540C
1 PE 1L NA01t 9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01MW002	SAMPLE ID: MA01MW002		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 142.49	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (~~1600MW~~ feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.5 gallons + (0.0026 gallons/foot X 166 feet) + 0.5 gallons = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 140	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1210			0.08								
1240	2.4	2.4	0.08	147.14	8.33	24.10	2.67	64.9/5.47	7.91	~~NA~~/~~NA~~	50.9
1245	0.4	2.8	0.08	147.55	8.35	23.07	2.60	63.7/5.41	6.99	" "	50.1
1250	0.45	3.2	~~0.08~~ 0.10	147.93	8.34	23.33	2.61	63.0/5.29	7.35	" "	49.6
1255	0.45	3.5	~~0.08~~ 0.10	149.50	8.35	22.59	2.59	69.5/5.94	6.45	" "	50.2
1300	0.5	4.0	0.10	149.24	8.34	22.81	2.58	68.3/5.84	4.60	" "	51.1
1305	0.5	4.5	0.10	149.78	8.32	22.58	2.57	67.4/5.8	4.25	" "	52.1

WELL CAPACITY (Gallons Per Foot): ~~**0.75"** = 0.02~~; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Sondra Kramer Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1306	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 140	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCl			8260B	ESP	.08
	2	AG	1L				8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	150mL				6860 Filtered & Unfiltered		
	1	PE	500mL				7196A		
	1	PE	500mL				300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	—	2320B, 2540C
1	PE	1L	NaOH	9012A

TRINITY
ANALYSIS & DEVELOPMENT CORP.
Environmental & Engineering Services

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GROUNDWATER SAMPLING LOG

SITE NAME: MAOI (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MAOI MW003	SAMPLE ID: MAOIMW003		DATE: 9/27/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 153 feet to 173 feet	STATIC DEPTH TO WATER (feet): 143.72	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) JMK 175 – 143.72 feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0.5 gallons + (.0026 gallons/foot X 175 feet) + 0.5 gallons = 1.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 160	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 160	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 11.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
1040			.11		started mS/cm			Purge			
1050	1.1	1.1	.11	144.94	8.09	20.92	2.68	6.26	4.55	clear/none	-18.2
1100	1.1	2.2	.11	146.80	8.08	21.43	2.70	6.02	3.44	clear/none	1.3
1110	1.1	3.3	.11	148.16	8.09	22.00	2.71	5.73	3.26	clear/none	20.8
1120	1.1	4.4	.11	148.00	8.09	22.41	2.71	5.64	2.65	clear/none	33.8
1130	1.1	5.5	.11	148.75	8.10	22.77	2.71	5.84	6.76	clear/none	42.3
1140	1.1	6.6	.11	149.55	8.09	23.78	2.73	5.55	1.62	clear/none	50.8
1150	1.11	7.7	.11	149.98	8.08	24.63	2.78	5.51	1.91	clear/none	54.8
1200	1.1	8.8	.11	150.43	8.07	24.67	2.78	5.63	4.19	clear/none	60.6 GW6
1210	1.1	9.9	.11	150.96	8.09	23.75	2.76	5.69	1.56	clear/none	66.8
1220	1.1	11.0	.11	151.58	8.07	23.27	2.65	5.67	1.39	clear/none	73.3

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Stewart J. Kramer TRINITY	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1221	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): 160 160	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: .45 µm .20
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL	—	—	8260B	ESP	.11 gpm
	2	AG	1L	—	—	—	8330	ESP	.11 gpm
	2	PE	250mL	HNO3	—	—	6010C Total & Diss	ESP	.11 gpm
	2	PE	250mL	—	—	—	6860 Filt & Unf. Perch	ESP	.11 gpm
	1	PE	500mL	—	—	—	7196A	ESP	.11 gpm
	1	PE	500mL	—			300.0	ESP	.11 gpm

REMARKS: TD = 173 MS, MSD

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1 PE 500mL
1 PE 1L NAOH

2320B, 2540C
9012A

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GROUNDWATER SAMPLING LOG

SITE NAME: MA01 (SWMU 130)		SITE LOCATION: Melrose AFR	
WELL NO: MA01MW004	SAMPLE ID: MA01MW004		DATE: 9/29/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4	149 feet to 169 feet	143.11	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (NA feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= ~~25~~ 0.5 JMK gallons + (.0026 gallons/foot X 1720 feet) + ~~25~~ 0.5 gallons = ~~99~~ 1.464 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
160	160	940	1110 JMK	10.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0940			.13				mS/cm	o/s / mg/L			
0950	1.3	1.3	.13	144.68	8.16	20.80	1.649	67.3 / 5.99	8.16	clear/none	1.2
1010	2.6	3.9	.13	146.85	8.11	21.18	1.659	72.2 / 6.37	6.16	clear/none	32.4
1020	1.3	5.2	.13	147.78	8.12	21.60	1.676	72.4 / 6.31	3.83	" "	47.4
1030	1.3	6.5	.13	148.43	8.13	22.54	1.708	66.4 / 5.71	3.20	" "	59.3
1050	2.6	7.8	.13	150.25	8.13	22.30	1.71	75.2 / 6.54	2.53	" "	73.4
1100	1.3	9.1	.13	152.05	8.10	21.85	1.68	72.8 / 6.36	2.15	" "	79.1
1105	.65	9.75	.13	152.76	8.11	21.83	1.68	74.4 / 6.49	2.36	"	81.5
1110	.65	10.40	.13	153.18	8.11	21.76	1.681	74.9 / 6.51	2.22	" "	83.7

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ben Stewart Trinity ADC		1110	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: .45 µm
160	T		2

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	~~CG~~ G	40mL	HCL			8260B	ESP	.13
	2	~~AG~~ G	1L	—			8330		
	2	PE	250mL	HNO3			6010C Total & Diss		
	2	PE	150mL	—			6860 Filt & Unfilt		
	1	PE	500mL	—			7196A		
	1	PE	500mL	—			300.0		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

143.11

1 PE 500mL —

1 PE 1L NAOH

2320B, 2540C

9012A

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Environmental & Engineering Services

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Fax: (850) 613-6764

GROUNDWATER SAMPLING LOG

SITE NAME: MA07 (SWMU-131)		SITE LOCATION: Melrose	
WELL NO: MA07MW601D	SAMPLE ID: MA07MW601D		DATE: 9/28/11

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): ¼	WELL SCREEN INTERVAL DEPTH: 167 feet to 187 feet	STATIC DEPTH TO WATER (feet): 105.63	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (187 JMM feet – NA feet) X NA gallons/foot = NA gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= .25 gallons + (.0026 gallons/foot X 180 feet) + .25 gallons = .96 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 170	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 170	PURGING INITIATED AT: 827	PURGING ENDED AT: 1020	TOTAL VOLUME PURGED (gallons): 15.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~mS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation		TURBIDITY (NTUs)	COLOR/ ODOR (describe)	ORP (mV)
0827			.13	started purge			mS/cm	%	mg/L			
0847				111.58	stopped		pump	down				
0853		~5 gal	.13	112.96	8.01	19.86	9.26	2.0	0.17	5.99	clear/none	-22.0
0903	1.1	6.1	.13	113.68	8.00	19.85	9.17	2.2	0.19	5.99	clear/none	-15.8
0913	1.1	7.2	.13	114.50	8.02	20.05	9.07	2.4	0.21	3.44	clear/none	-9.9
0923	1.1	8.3	.13	114.56	7.89	19.95	9.03	2.7	0.24	3.20	clear/none	-3.9
0933	1.1	9.4	.13	116.29	8.04	20.41	9.08	2.9	0.25	2.96	clear/none	-1.5
0944	1.1	10.5	.13		lost flow							
1000	↓	Gained flow	.13									
1010			.13		8.02	20.50	8.93	0.94	0.08		clear/none	32.5
1020	4.68	15.18	.13		8.01	20.92	8.99	3.5	.29		clear/none	27.1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Stewart Melissa Hoover Trinity	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1028	SAMPLING ENDED AT: 1109
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 2 / .45 µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCL			8260B	ESP	.13 spm
	2	AG	1L	–			8330		
	2	PE	~~250~~ 500mL	HNO_3			6010C Total & Diss		
	2	PE	~~150~~	–			6860 Filtered & Unfiltered		
	1	PE	500mL	–			7196A		
	1	PE	500mL	–			300.0		

REMARKS: Dup & Split @ 1028

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

1	PE	500mL	–	335.4B, 2540C
1	PE	1L	NaOH	9012A

Chain of Custodies

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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # PAGE 1 OF 1

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: jkramer@trinityadc
Phone#: 850 243 0072
Sampler(s) Name(s) (Printed):

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Dissolved Metals	Total Metals	Cyanide	Perchlorate	CrVI	AIKT/TS	Cl/SO4/NO3/NO2	LAB USE ONLY
	MWQ 22	5/11/11	1101	BS	GW	6				X	X					X	X	X	X	X	X	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1 B. Steed	5/11/11 1500	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information	Project Information
Company Name: Tri-State ADC	Project Name:
Address: 90 NW 82nd Street Rd	Street
City: Fort Walton Beach State: FL Zip: 32548	City State
Project Contact: S. Wagner E-mail: swagner@tri-state.com	Project #
Phone#: 850-244-0003	Fax #
Sampler(s) Name(s) (Printed)	Client Purchase Order #

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION: DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Analytical Information: Perchlorate 314.0	Total Hardness 130.2	Cyanide 335.2	Dissolved Chloride 325.2	Cond 120.1	Alk/TDS 310.1/160.1	Cl/SO4/NO3/NO2/Br 300.0	Matrix Codes: LAB USE ONLY
	MW-22	5/11/11	1100	RS	GW	6				X	X					X	X	X	X	X	X	X	

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1 B. Shepard	5/11/11 1500	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0077
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCl)	ALK/TS	Cl/SO4 /NO3 /NO2	Cr VI			Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X				
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X				
	5/10/11				TB7		3						X							
					TB8		3						X							

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90NW Beal Pkwy Suite #2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 8502430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK/TS	Cl/SO4/NO3/NO2	Lab ID	Remarks:
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X		
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X		

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/11/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	ALKT/TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/12/11	950		X	MWQ19		7	X	X	X	X	X	X	X		
GW	5/12/11	1240		X	MWQ18		7		X	X	X	X	X	X		

Analytical Requests & Method

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/12/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Extra volume labled "Field filtered". This was not filtered, lab needs to filter. MWQ18

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	Cr VI	Alkalinity	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/13/11	1231		X	MWQ14		7	X	X	X	X	X	X	X		
GW	5/13/11	1231		X	MWQ14-MS		7	X	X	X	X	X	X	X		
GW	5/13/11	1231		X	MWQ14-MSD		7	X	X	X	X	X	X	X		

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/13/11	1408
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Alkalinity / TDS	Perchlorate	Cyanide (Cont. Mod.)	Hexavalent Chromium	Cl / SO4 / NO3 / F	Total Metals (1mL HNO3)	Dissolved Metals (1mL HNO3)	Remarks:	Lab ID
GW	5/3/11	0915		X	MWQ-3		7	X	X	X	X	X	X	X		
GW	5/3/11	1018		X	MWQ-4		7	X	X	X	X	X	X	X		
GW	5/3/11	1157		X	MWQ-5		7	X	X	X	X	X	X	X		
GW	5/3/11	1157		X	MWQ-5-Dup		7	X	X	X	X	X	X	X		
GW	5/3/11	1312		X	MWQ-6		7	X	X	X	X	X	X	X		
GW	5/3/11	1353		X	MWQ-7		7	X	X	X	X	X	X	X		
GW	5/3/11	1523		X	MWQ-10		7	X	X	X	X	X	X	X		
GW	5/3/11	1523		X	MWQ-10-MS		7	X	X	X	X	X	X	X		
GW	5/3/11	1523		X	MWQ-10-MSD		7	X	X	X	X	X	X	X		

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SDG: Annual

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Phone 225.769.4900 • Fax 225.767.5717

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKTITS	VOC (HCL)	Dissolved Metals (HNO3)			Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X			
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X			
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X			
	5/5/11	926			TB1		3												
	5/5/11	926			TB2		3												

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Remarks:

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal PKW Suite A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: JKramer@trinity-ad
Phone#: 850-243-0072
Sampler(s) Name(s) (Printed): B. Stewart S. Kramer

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Total Metals	Dissolved Metals	Cr VI	Cyanide	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC	Explosives			
	MA02MW001D	5/5/11	1223	BS	GW	1				X	X					X	X	X	X	X	X	X	X	X			
	TB3	5/5/11	926			3																					

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

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Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1	5/5/11 1500	2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name | Client # | Workorder # | Due Date

Report to:
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Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number | Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCl)	ALKT/TS	Perchlorate	1150 4/NO3/NO2	CrVI	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X	
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X	
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X	
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X	
	5/9/11				TB6		3					X					
	5/9/11				TB7		3					X					

Remarks:

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Explosives	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC (HCl) 8260	Remarks:	Lab ID
GW	5/6/11	1135		X	MW14 MW002		12	X	X	X	X	X	X	X	X	X		
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X		
GW	5/6/11	1430		X	MW14 MW003		12	X	X	X	X	X	X	X	X	X		
	5/6/11				TB4		3									X		
	5/6/11				TB5		3									X		

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/6/11	1523
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name | Client # | Workorder # | Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #2 Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HW03)	Total Metals (HW03)	Explosives	Cr VI	Cyanide (WeOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOCs (HCL)	Remarks:	Lab ID
GW	5/16/11	935		X	MA01 MW002		12	X	X	X	X	X	X	X	X	X		
GW	5/16/11	1110		X	MWQ23		12		X	X		X	X	X	X	X		
					TB9		3									X		

Analytical Requests & Method

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ ~~Standard~~ ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/16/11	1539
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: MWQ23 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Rd
Ft Walton Beach FL 32548
Contact: J. Kvame
Phone: 8502430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Perchlorate	CrVI	Cyanide (NaOH	ALKT/TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/17/11	1322		X	MWQ-20		7	X	X	X	X	X	X	X		
GW	5/17/11	1322		X	MWQ-20-Dup		7	X	X	X	X	X	X	X		

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/17/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:

Client: Trinity ADC
Address: 90 NW Beal Pkwy #2
Fort Walton Beach FL, 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number	Project Name/Number
	Melrose

Sampled By: B. Stewart J. Kramer

Analytical Requests & Method

Dissolved Metals (HNO3) | Total Metals (HNO3) | Cyanide (NaOH) | Perchlorate | Cr VI | ALK T/TS | Cl/SO4/NO3/NO2

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no

Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
GW	5/18/11	1430		X	MWL6		7		
W	5/18/11	1030		X	EB2		7		

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/18/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # | PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity
Address: 1002 N Eglin Pkwy
City: Shalimar State: FL Zip: 32579
Project Contact: J Kramer E-mail:
Phone#:
Sampler(s) Name(s) (Printed): Mcdoover B Stewart

Project Information

Project Name: Melrose AFR
Street:
City State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	V8260 TCL	VG830A-Ext	MTAL-total	MTAL-Diss	Cr VI TDS Alk CHL SO4 NO2 NO3	CN	Perchlorate Total Emp	Perchlorate Diss Emp					LAB USE ONLY
	MA02 MW001D	9/28/11	1015	MH BS	WG	11		X	X	X	X					X	X	X	X	X	X	X	X					

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2	3		4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: _____

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity Analysis & Development
Address: [illegible] N Eglin Pkwy, Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 [illegible] 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number Melrose Semi

Sampled By: B. Stewart J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196)	CL/SO4/NO2/NO3	Alk/TDS	Cyanide (NaOH)	Remarks	Lab ID
W	9/28/	1038		x	MA02 MW001D		13	x	x	x	x	x	x	x	x	x	x		/
W	9/28/	1038		1	FD-1		13	x	x	x	x	x	x	x	x	x	x		
W	9/28/	1038			TB-2		3	x											

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on CrVI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:

Client: _____
Address: _____
Contact: _____
Phone: _____
Fax: _____

Bill to:

Client: _____
Address: _____
Contact: _____
Phone: _____
Fax: _____

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C _____

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
W									
W									
W									
W					TB-4				

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name | Client # | Workorder # | Due Date

Report to:
Client: Trinity Analysis + Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260 B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196 A)	Cl/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH) 9012 A	Lab ID	Remarks:
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		
W	9/27/11	0933			TB-1		3	X											

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date

Report to:
Client: Trinity ADC
Address: 1007 N Eglin Pkwy
Shalimar, FC 32579
Contact: J. Kramer
Phone: 850 618 6088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi- Annual
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (D/SS) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Remarks:	Lab ID
W	9/30/11	1000		X	M114 MW004		15	X	X	X	X	X	X	X	X	X	X		
W	9/30/11	1230		X	M114 MW001		13	X	X	X	X	X	X	X	X	X	X		
W	9/30/11	1000			TB-5		3	X											

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		9/30/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hour hold on Hex Chrome*

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name | Client # | Workorder # | Due Date

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Parkway
Shalimar FL 32579
Contact: Jonathan Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: Ben Stewart, Jonathan Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (NaOH)	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X	
W	10/3/11	0932		X	MW14MW002		13	X	X	X	X	X	X	X	X	X	X	
W	10/3/11	1146		X	MW14MW003		13	X	X	X	X	X	X	X	X	X	X	
W	10/3/11	0850		X	TB-6		3	X										

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C

Remarks:

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart		10/3/11	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Hex Chrome*

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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Waste Manifest (IDW)

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RECEIVED DEC 16 2011

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N/A	1	806-358-7484	1002406

5. Generator's Name and Mailing Address
Melrose Air Force Range, Cannon Air Force Base
506 N. DL Ingram Blvd
Cannon, NM 88103
Generator's Phone: 575-784-1092 Attn: Anita LaFuente

Generator's Site Address (if different than mailing address)
25 miles west of Cannon AFB
Clovis, NM 88124

6. Transporter 1 Company Name
Eco-logical Environmental Services, Inc.

U.S. EPA ID Number
State Transporter ID: 83166

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Southwest Landfill TX, LP
20700 Helium Road
Canyon, Texas 79015
Facility's Phone: 806-655-4776

U.S. EPA ID Number
1663B

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	DOT Non Regulated, RCRA Non Hazardous water	4	DM	1400	DM
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Waste Approval Number: 5121 11 15835

GENERATOR

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: A M Lafuente
Signature: A M Lafuente
Month: 10 Day: 05 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joel Ortiz
Signature:
Month: 10 Day: 5 Year: 11

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 10 Day: 10 Year: 11

APPENDIX B

Well Inspection Photographic Log

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Site Photographs

Photo #1
Monitoring wells MWQ-1 and MWQ-2.

Photo #2
MQ-4 is a pumping well utilized for livestock purposes.

Photo #3
Monitoring well MWQ-8. Note that the pad has deteriorated .

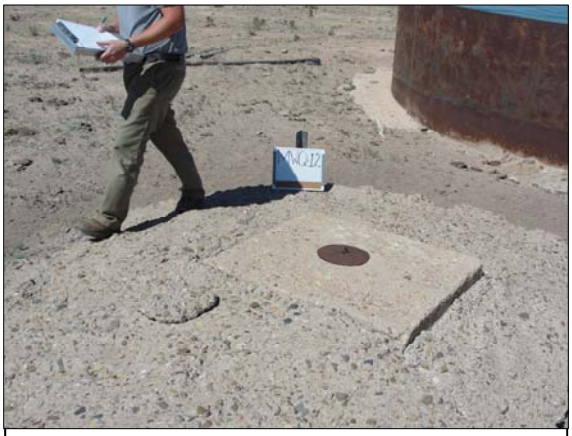

Photo #4
Monitoring well MWQ-12.

Photo #5
Monitoring well MWQ-13.

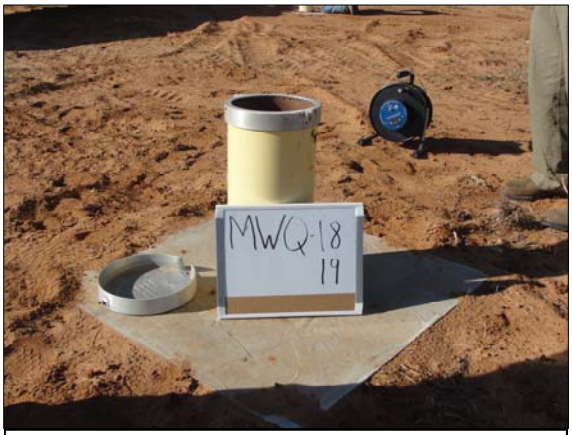

Photo #6
Monitoring wells MWQ-18 and MWQ-19.

Site Photographs

Photo #7
Monitoring wells MWQ-18 and MWQ-19. Photograph of the two monitoring wells within the steel casing.

Photo #8
Monitoring well MWQ-20.

Photo #9
Monitoring wells MWQ-21 and MWQ-22.

Photo #10
Monitoring wells MWQ-21 and MWQ-22. Photograph of the two monitoring wells within the steel casing.

Photo #11
MWL-4.

Photo #12
MWL-5.

Site Photographs

Photo #13
MWL-6.

Photo #14
MWL-7.

Photo #15
MWL-8.

Photo #16
Monitoring well MWL-9.

Photo #17
Monitoring well MWL-10.

Photo #18
Monitoring well MWL-11.

Site Photographs

Photo #19
Monitoring well MWL-12.

Photo #20
MA01– MW-001-.The well pad is in good condition and all three bollards are present.

Photo #21
MA01-MW-002 .The well pad is in good condition and all three bollards are present.

Photo #22
MA01-MW-003. The well pad is in good condition and all three bollards are present.

Photo #23
MA01-MW-004. The well pad is in good condition, however one bollard is missing. Bollard will be installed in 2012.

Photo #24
M114-MW-004. The well pad is in good condition and all three bollards are present.

Site Photographs

Photo #23
Typical photograph well abandonment procedure. Tremie pipe is in well (MAO3MW001).

Photo #24
Abandoned well MAO3MW001.

Photo #25
Surface completion removed.

Photo #26
Removing surface casing of M117MW002 subsequent to abandonment.

Photo #27
Removing surface casing of M117MW004 subsequent to abandonment.

Site Photographs

Photo #28
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas .

Photo #29
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas.

Photo #30
Eco-logical Environmental Services, Inc. collecting IDW for transport to disposal at Southwest Landfill in Canyon, Texas

APPENDIX C

Parameter Summary and Trends

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MELROSE
AIR FORCE RANGE

□□□□	Semiannual Network										Annual Network											
	□WM□□114				□WM□1□0				□WM□□1□1	□□□□r□□□d						□□□□r□□□d	□□□□r□□□d						
	M114MW001	M114MW00□	M114MW00□	M114MW004	M□□1MW001	M□□1MW00□	M□□1MW00□	M□□1MW004	M□□□MW001□	MW□□□	MW□□□	MW□□□	MW□4	MW□□□	MW□□□	MW□7	MW□□10	MW□14	MW□□1□	MW□1□	MW□□0	MW□□1	MW□□□	MW□□□
□□□04											□□0	□□□		□□7	7□47		□□□	□□□						
□□□04											0□□	7□1□		7□4	□□□		7□□	□14	□□□					
□□□0□											1□7□	□10		7□□			□□□		7□4			4□□	0□47	□□□
□□□07											0□□	□□□	7□10	□11	4□0	□4□	□74	4□□	□1□		0□□	4□14	0□□	4□□
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M□□□11	□0□	□44	□□□7	□0□	□□□	4□77	□□□	7□1	0□1□	0□1□	0□□	□□□	□□□	□71	□□□	□□	□□□	□□1	□□□	0□0□	0□0□	0□17	0□07	□4□
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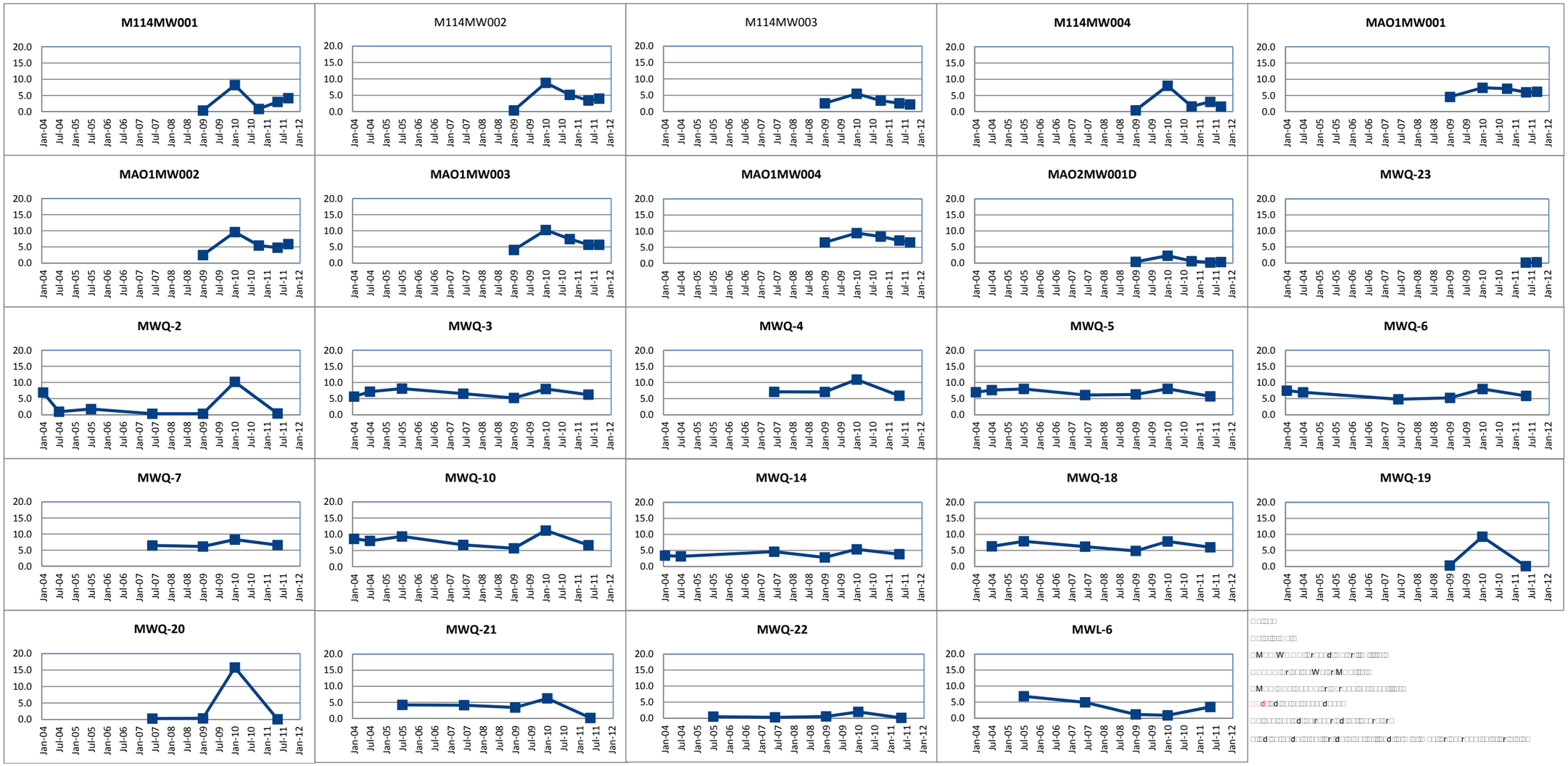
Min	0□□7	0□40	□□□	0□4□	4□□	□4□	4□0□	□4□	0□1□	0□1□	0□□1	□1□	□□□	□71	4□□0	□1□	□□□	□□1	4□□4	0□0□	0□0□	0□17	0□07	0□□
Max	□1□	□□□1	□47	7□□	7□□	□□□	10□□	□□□	□□□	0□□	10□1□	□10	10□□0	□0□	7□□7	□□1	11□1□	□□4	7□□4	□□7	1□7□	□□4	1□□	□□□
Average	□□□	4□□	□□□4	□□□	□□□	□□□	□□1	7□□	0□7□	0□1□	□□7	□□□	7□74	□□□	□□□	□□0	□0□	□□□	□□4□	□□0	4□1□	□□4	0□□	□4□



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□□□□	Semiannual Network										Annual Network													
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	M114MW001	M114MW00□	M114MW00□	M114MW004	M□□1MW001	M□□1MW00□	M□□1MW00□	M□□1MW004	M□□□MW001□	MW□□□	MW□□□	MW□□□	MW□□4	MW□□□	MW□□□	MW□□7	MW□□10	MW□□14	MW□□1□	MW□□1□	MW□□□0	MW□□□1	MW□□□□	MW□□□
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□□□□0□	7□□0	7□□0	7□□□	7□70	7□□1	7□□□	7□□1	7□□7	7□7□		7□□□	7□□□	7□□□	7□□4	7□7□	7□□7	7□□1	7□7□	7□□7	7□14	7□□□	7□14	7□□□	□□□□
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M□□□11	7□7□	7□□□	7□□□	7□□□	7□7□	□07	7□0□	7□0□	7□□□	7□□□	7□7□	7□4□	7□1□	7□□□	7□□□	7□□□	7□0□	7□□4	7□44	□□□7	7□7□	7□□□	7□14	7□□0
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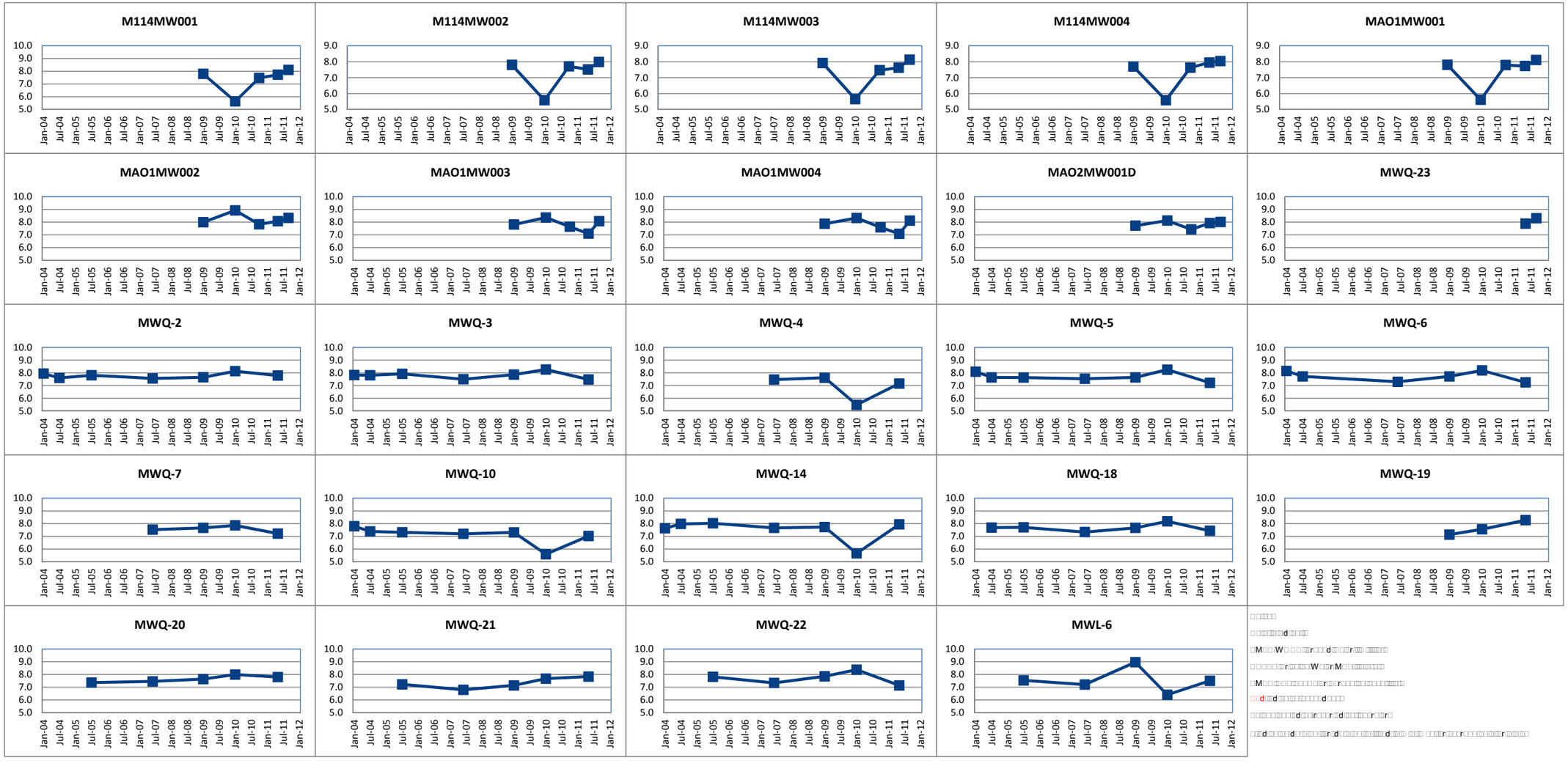
Max	□11	7□□□	□1□	□04	□11	□□□□	□□□□	□□□□	□1□	□□□0	□1□	□□□□	7□□□	□□□□	□1□	7□□□	7□□0	□0□	□1□	□□7	7□□□	7□□□	□□7	□□□□
Average	7□□□	7□□□	7□□□	7□□□	7□41	□□□□	7□7□	7□7□	7□□4	□0□	7□7□	7□□1	□□4	7□7□	7□7□	7□□7	7□0□	7□□□	7□□7	7□□□	7□□4	7□□□	7□70	7□□□



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Min	1□□1□	1□□□□	1□□40	1□□1□	17□0□	1□□7□	1□□71	1□□□□	14□77	
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Average	□0□0□	1□□17	1□□4□	1□□44	1□□7□	1□□74	□0□□□	1□□1□	1□□4□	

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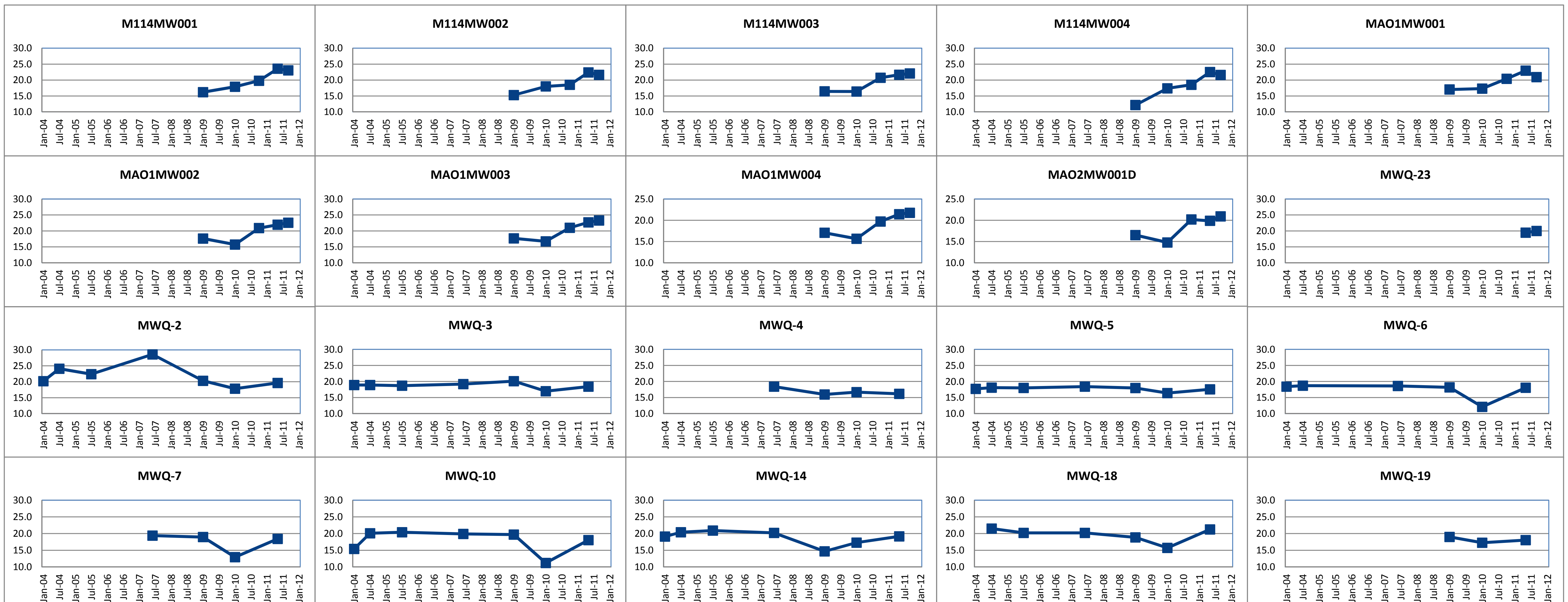
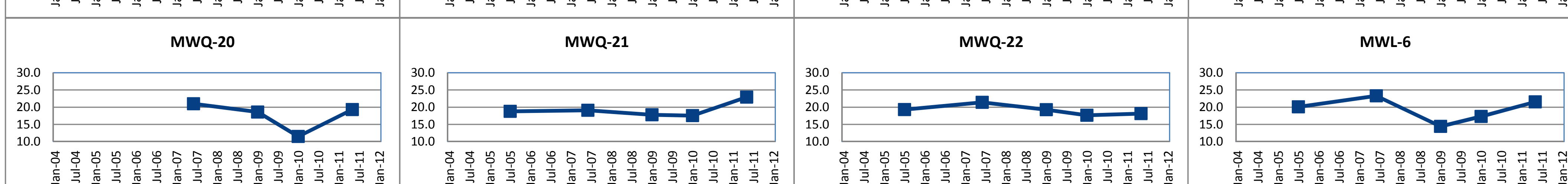
Max	□□□□0	□0□10	1□□40	1□□40	1□□70	1□□40	□0□40	□0□□0	□1□□0	1□□01	□1□00	□□□□□	□1□40	□□□□0
Average	□1□□7	1□□74	1□□□1	17□7□	17□□4	17□4□	17□□□	1□□□□	1□□□□	1□□11	17□□0	1□□□□	1□□1□	1□□□□





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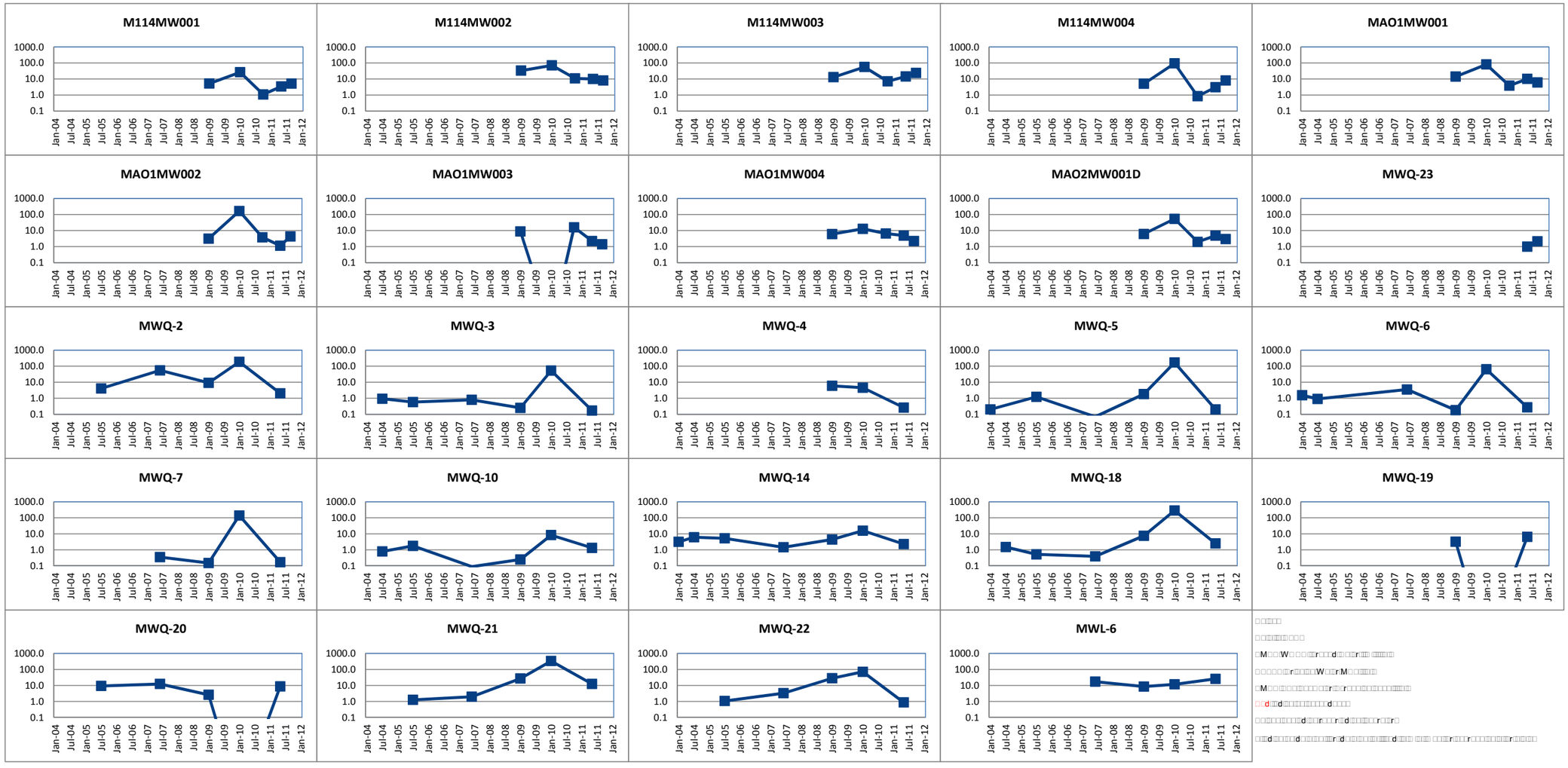

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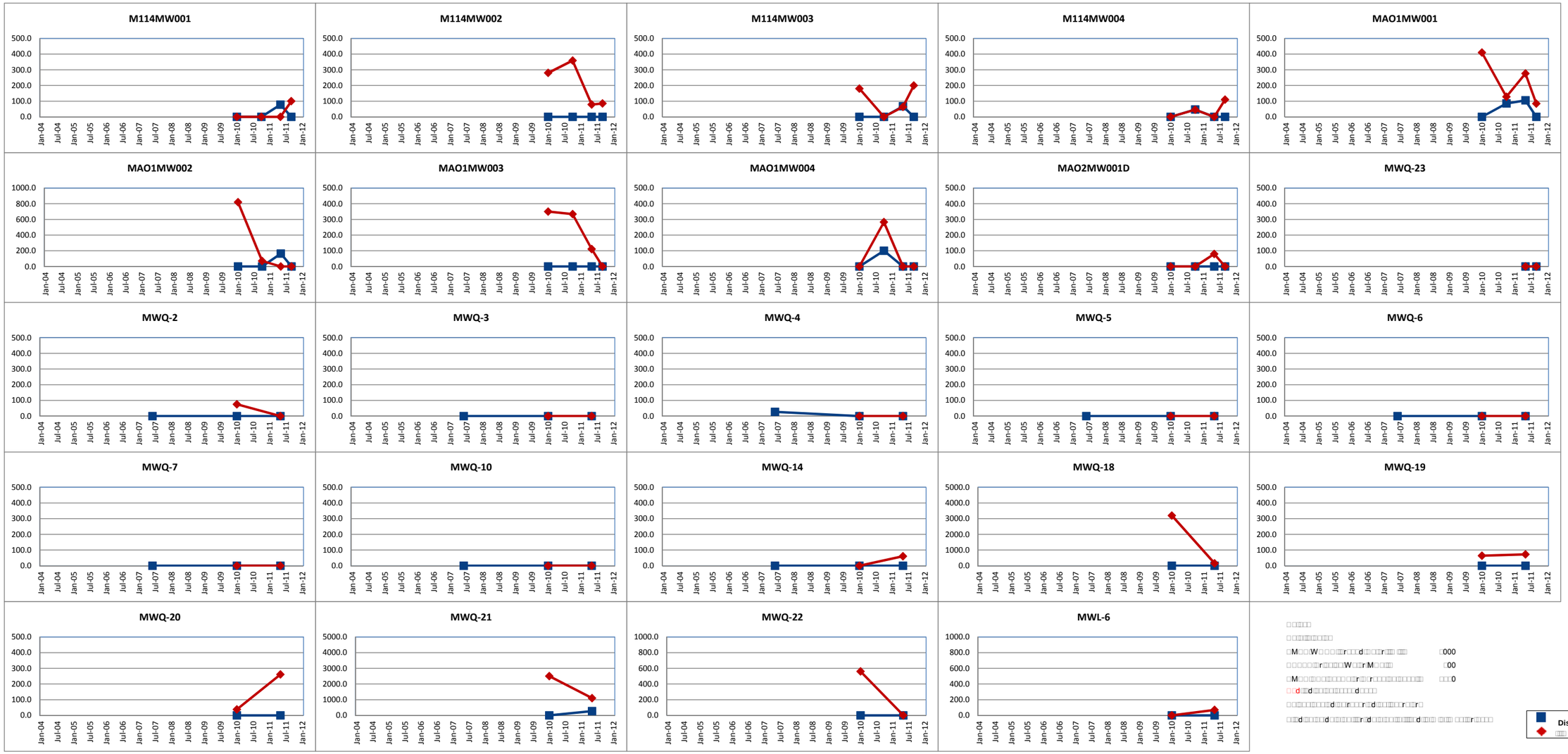

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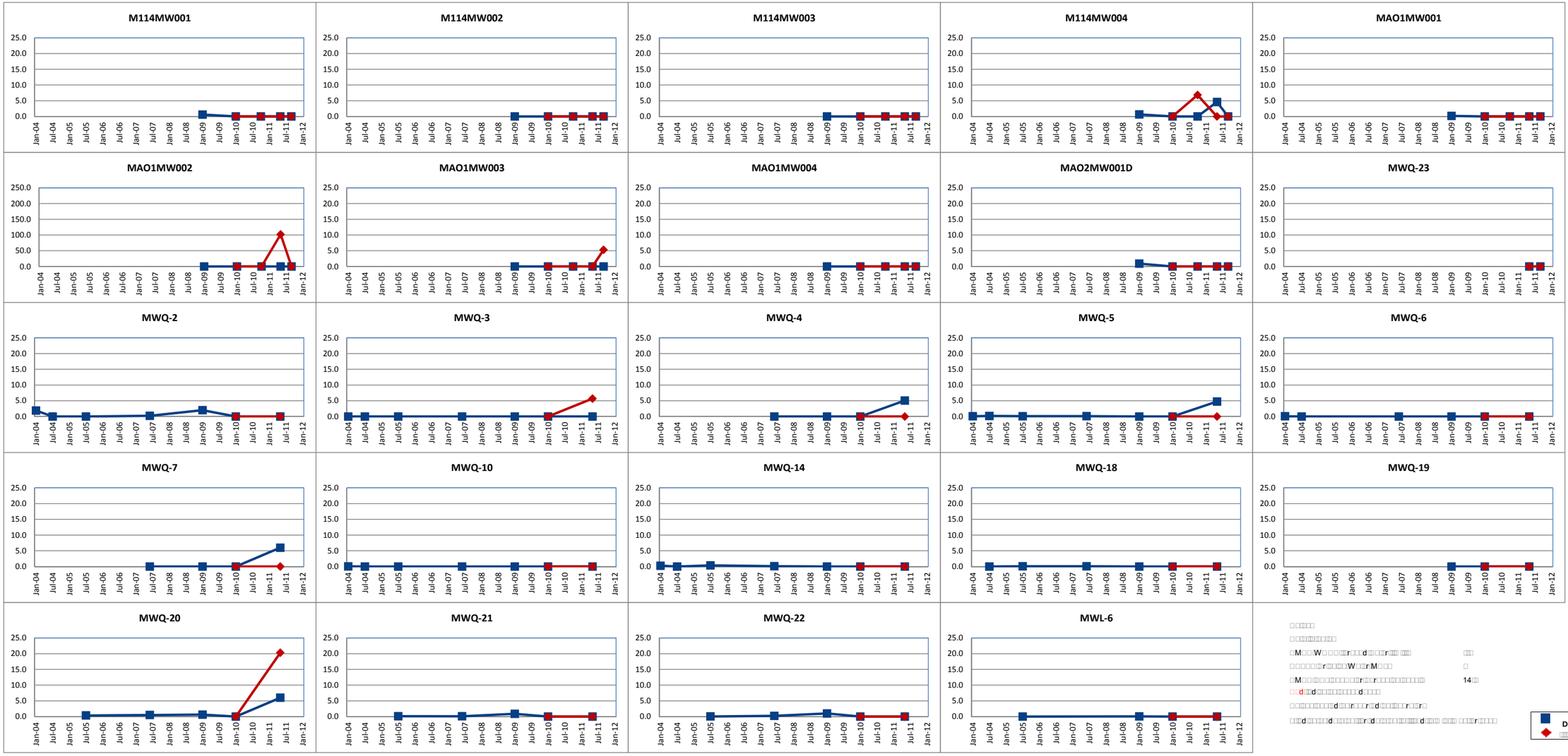
Max	0.0	0.□	0.0	0.0	0.0	0.0	□.□	4.□	0.0	0.□	10.□0	0.0	□.□	0.0	0.0	0.0	0.0	0.□	0.0	0.0	0.0	□0	□7	0.0	0.0	□1	0.0	4.7	0.0	0.1	0.0	□0	0.0	0.1	0.0	0.4	0.0	0.1	0.0	0.0	0.□	□0	0.0	0.□	0.0	1.0	0.0	0.1
Avg	0.0	0.1	0.0	0.0	0.0	0.0	1.7	1.0	0.0	0.0	□.□	0.0	1.□	0.0	0.0	0.0	0.0	0.□	0.0	0.0	0.0	0.□	□.□	0.0	0.0	1.□	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1□.□	1.□	0.0	0.□	0.0	0.0



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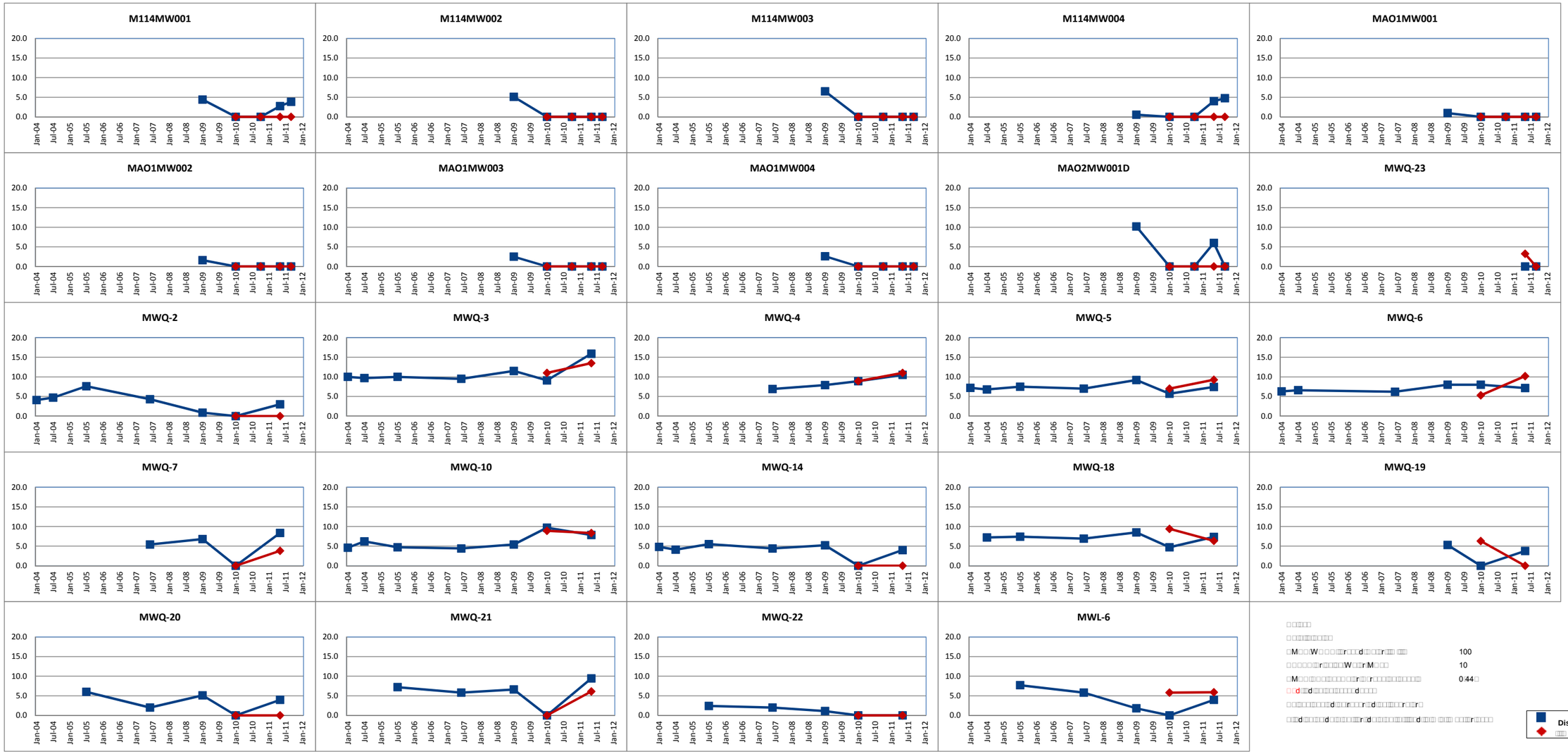
Max	0□0	4□4	0□0	□1	0□0	□□□	0□0	4□□	0□0	1□0	0□0	1□□	0□0	□□□	0□0	□□□	0□0	10□□	□□□	0□0	0□0	7□□	1□□□	1□□□	11□0	10□□	□□□	□□□	10□□	□□0	□□□	□□□	□4	□□□	□7	0□0	□□□	□4	□□□	□□□	0□0	□0	0□0	□4	□1	□□□	0□0	□4	□□□	7□7
Avg	0□0	□□□	0□0	1□0	0□0	1□□	0□0	1□□	0□0	0□□	0□0	0□□	0□0	0□□	0□0	0□□	0□0	□□□	1□□	0□0	0□0	7□□	1□□□	1□□□	10□□	10□0	□□□	□1	7□□	7□□	7□0	1□□	□1	□□□	□1	0□0	4□0	7□□	7□0	□□□	□0	0□0	□4	□1	□□□	0□0	1□1	□□□	□□□



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□□□□	Semiannual Network											
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Min	□□0	□□□	1□□□	10□□	4□□	4□□	□□□	□□□	14□□	14□0	1□□0	1□□0
Max	□□7	1□7	□□□□	17□□	□0□□	1□□□	□□□□	1□□0	□7□□	1□□0	□7□0	1□□0
Avg	17□0	1□□1	1□□□	1□□0	1□□□	1□□□	1□□1	14□□	1□□□	1□□□	1□□□	1□□□

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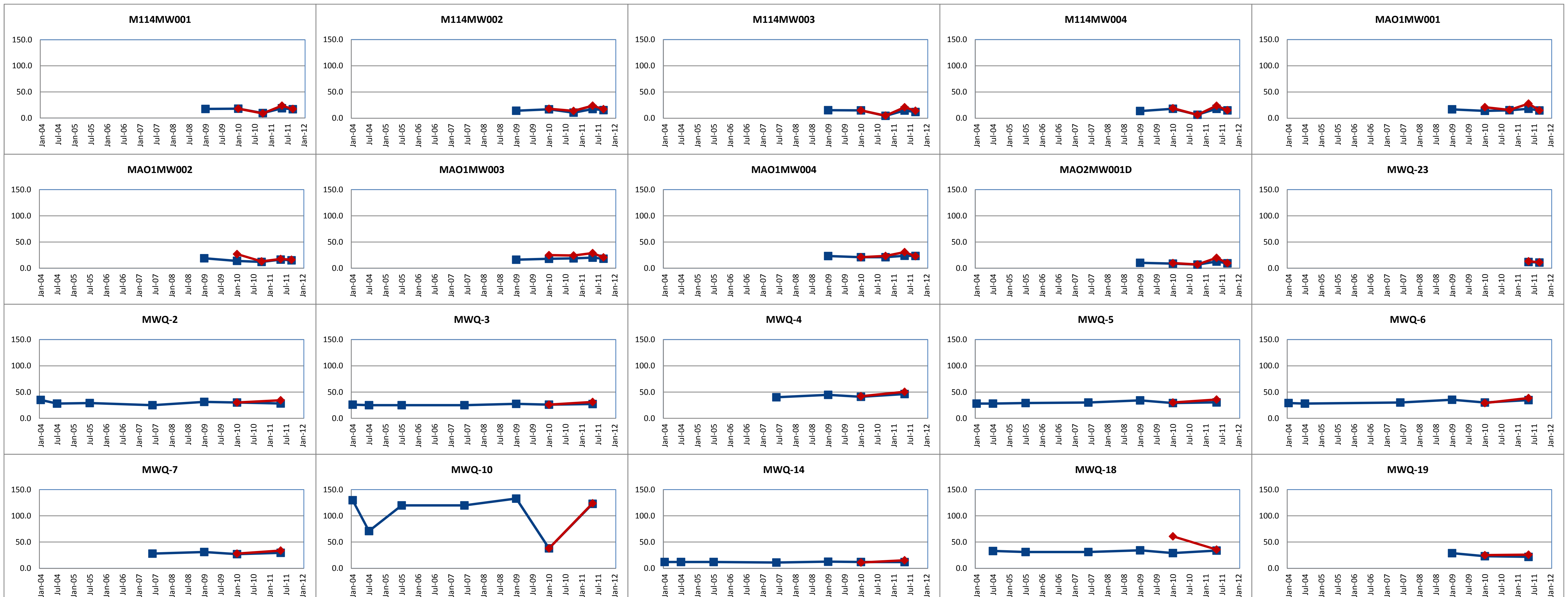

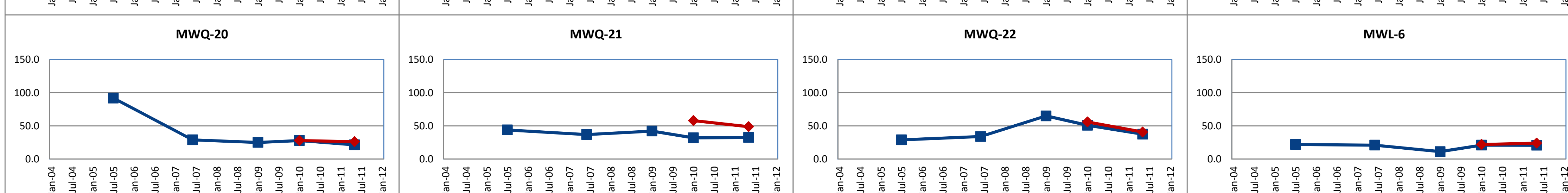

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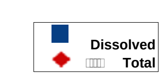

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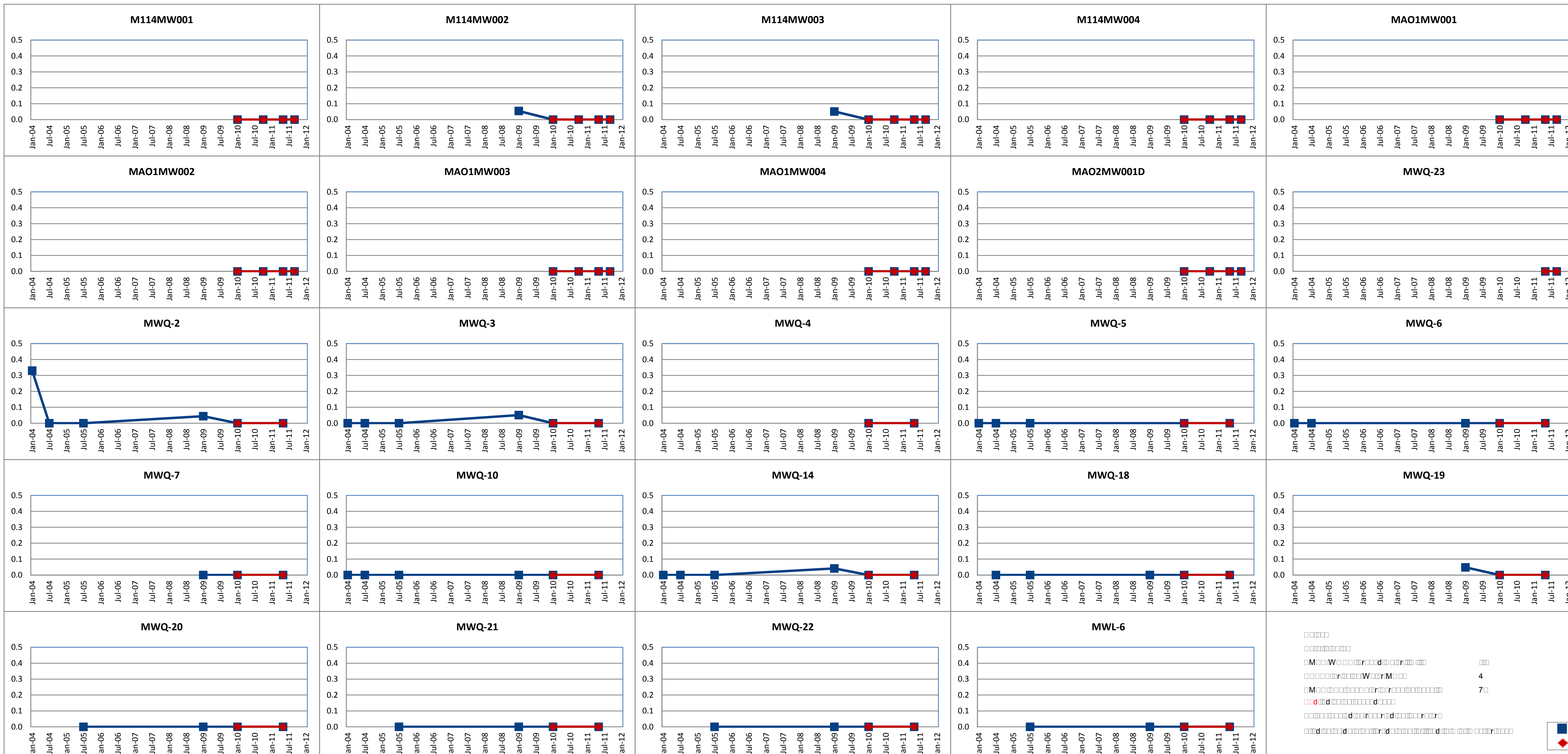

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Dissolved
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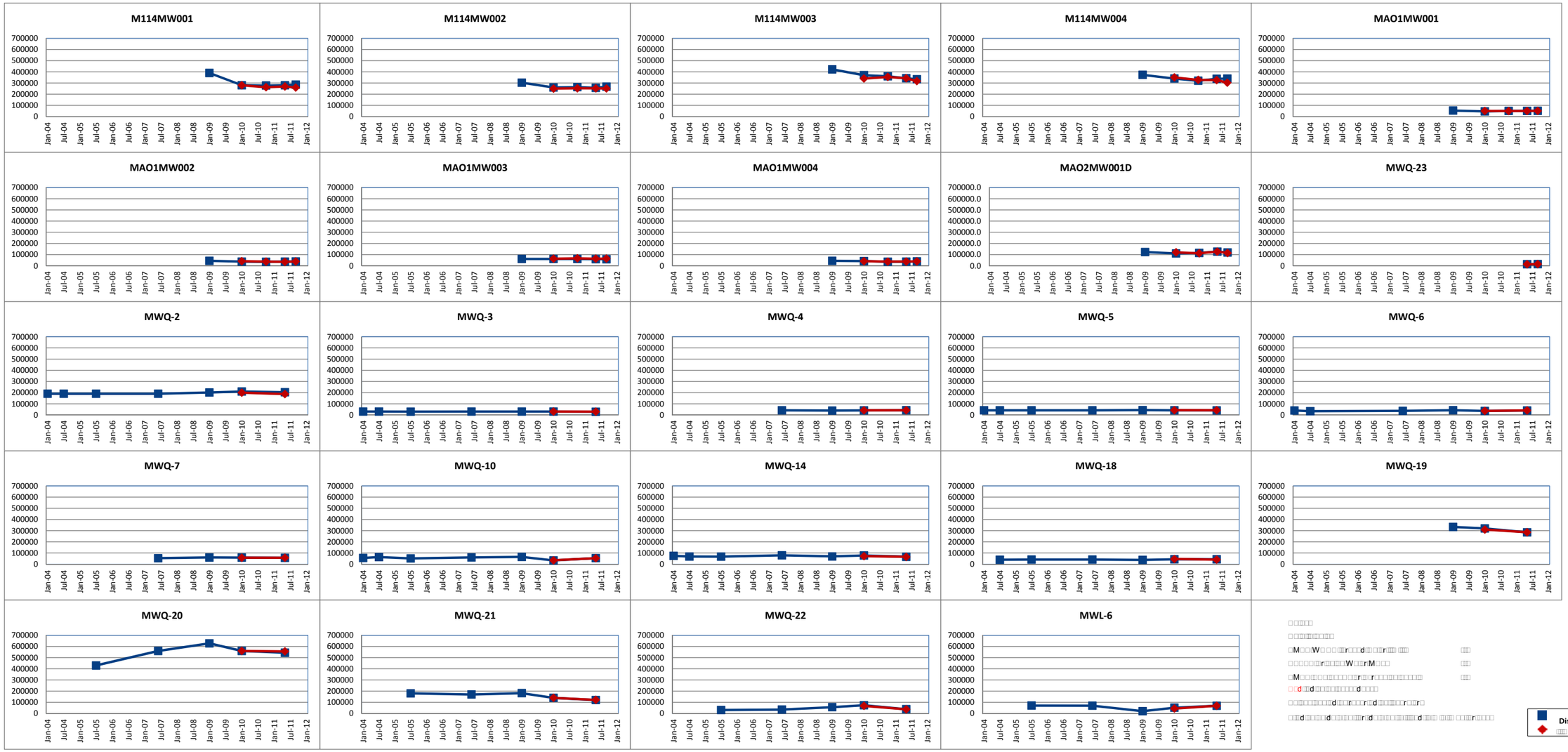

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M□□□11	0□□1	0□□□	□□ □□□	0□□□	□□ □□□	0□□1	0□□□	0□□0	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□	□□ □□□
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Max	1□□	□□□	1□4	□□□	1□□	1□4	1□□	□□□	0□□	0□□	0□0	□□□	0□□	0□□	0□0	1□4	0□7	0□□	0□0	0□0
Avg	0□□	1□□	0□□	1□□	0□7	0□7	0□□	1□□	0□1	0□□	0□0	0□□	0□1	0□1	0□0	0□□	0□□	0□1	0□0	0□0

□□□□	Annual Network													
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□ □□□10														
M□□□11	□□ □□□	0□4□	0□44	0□□□	0□□□	0□□4	0□7□	1□1	0□7□	0□□□	0□□7	1□□□	0□7□	0□□□
□□□□11														
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Max	1□0	1□□	0□4	0□□	0□4	0□□	0□□	1□□	0□7	1□0	0□□	□□□	0□7	0□□
Avg	0□□	0□□	0□□	0□1	0□□	0□□	0□4	0□□	0□4	0□□	0□4	1□1	0□4	0□□

□□□□	Annual Network													
	MW□□14		MW□□1□		MW□□1□		MW□□□0		MW□□□1		MW□□□□		MW□□□	
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□□□□11														
Min	0□0	0□0	0□0	0□0	0□□	0□□	1□□	0□1	0□□	0□0	0□0	0□0	0□0	0□0
Max	0□7	0□□	0□7	1□□	1□1	1□4	1□□	□□0	0□7	□□0	0□0	□□□	0□0	0□□
Avg	0□4	0□1	0□□	0□4	1□0	1□1	1□□	0□□	0□□	0□7	0□0	0□4	0□0	0□1

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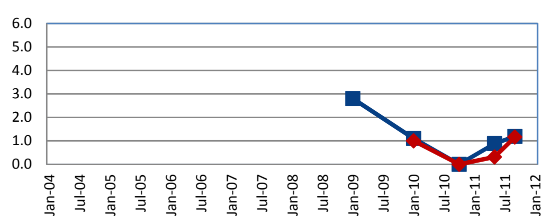

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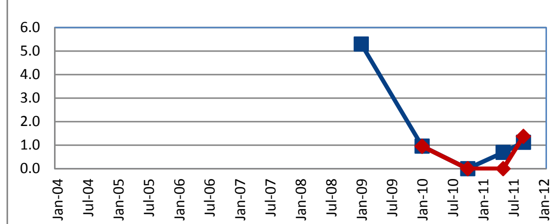

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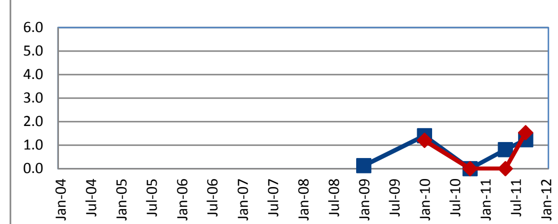

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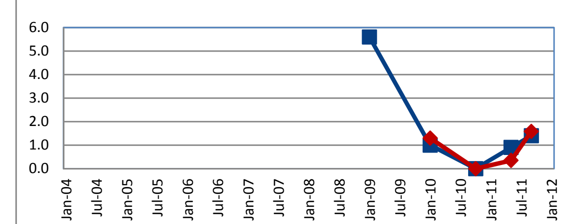

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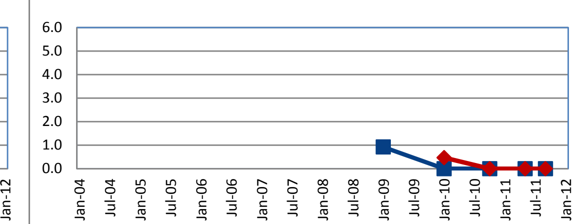

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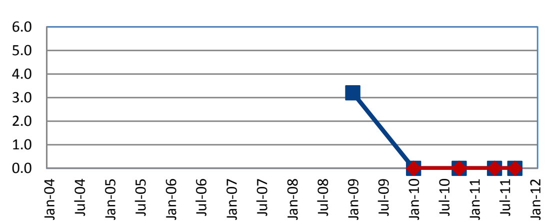

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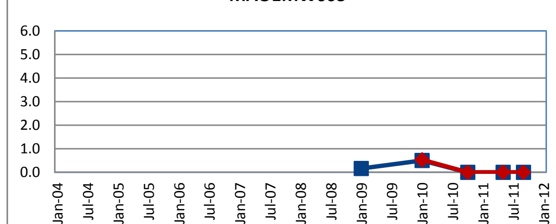

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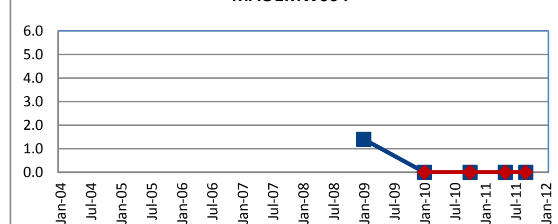

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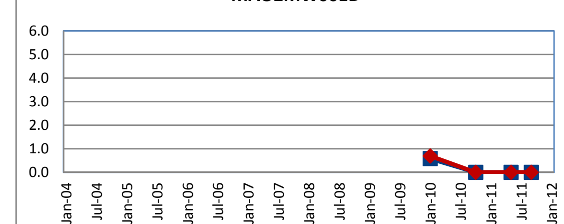

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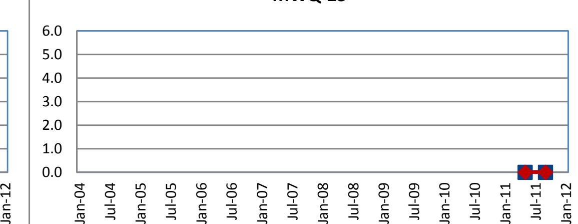

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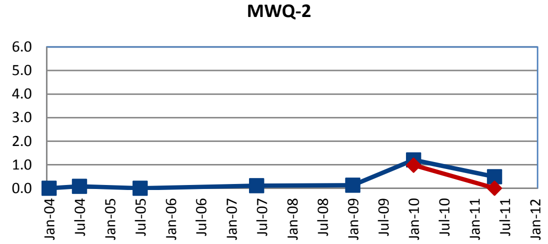

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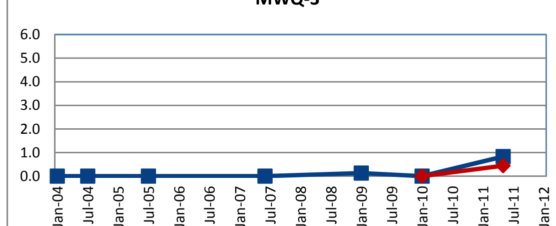

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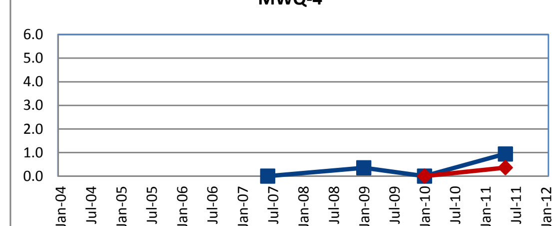

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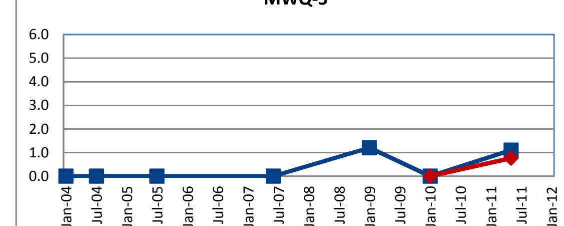

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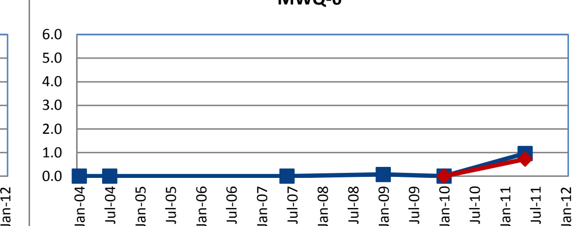

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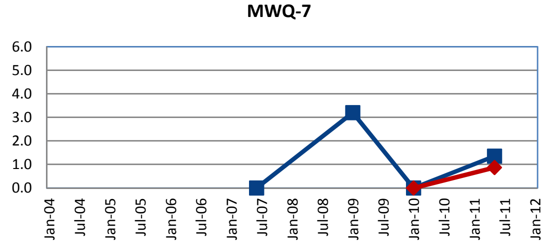

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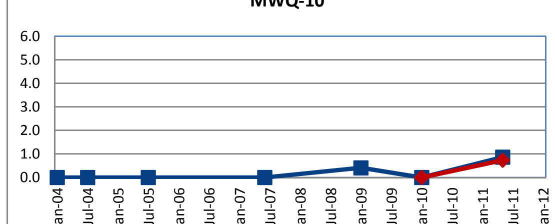

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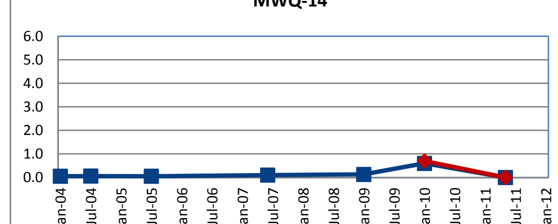

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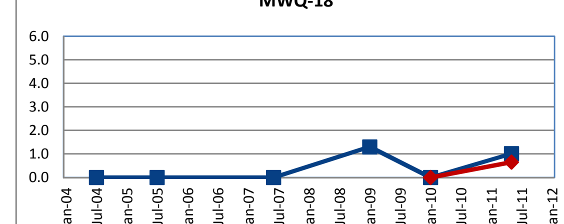

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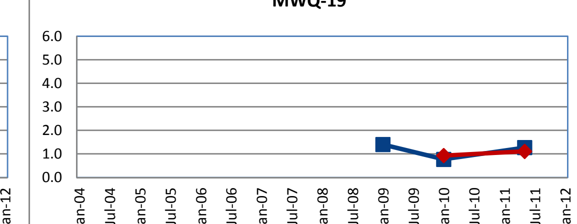

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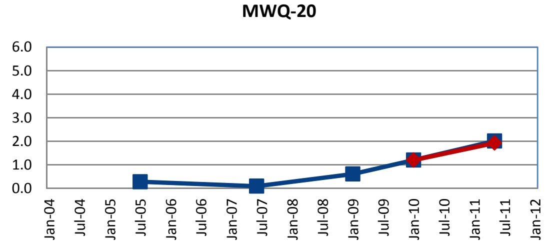

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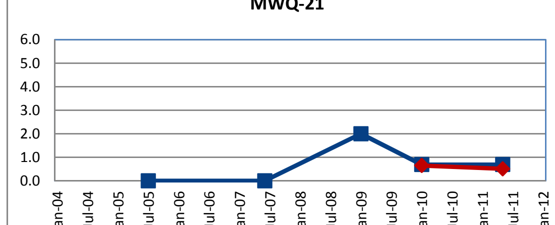

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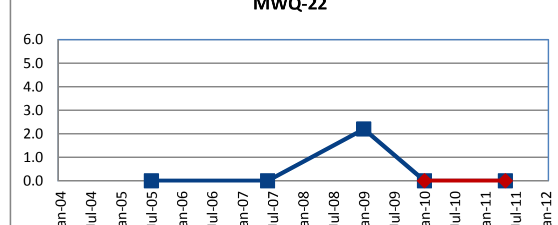

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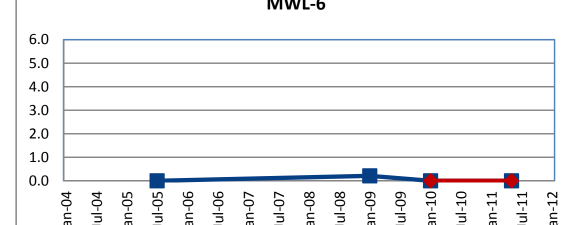

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■ Dissolved
◆ Total

MELROSE
AIR FORCE RANGE

□□□□	Semiannual Network																		Annual Network																							
	□WM□□114								□WM□□1□0								□WM□1□1		□□□□r□□□d								□□□□r□□□d		□□□□r□□□d														
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□□□04																				4□1		0□0□4				0□1□		0□11				0□1□		0□4□									
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□□10	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	1□7	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□
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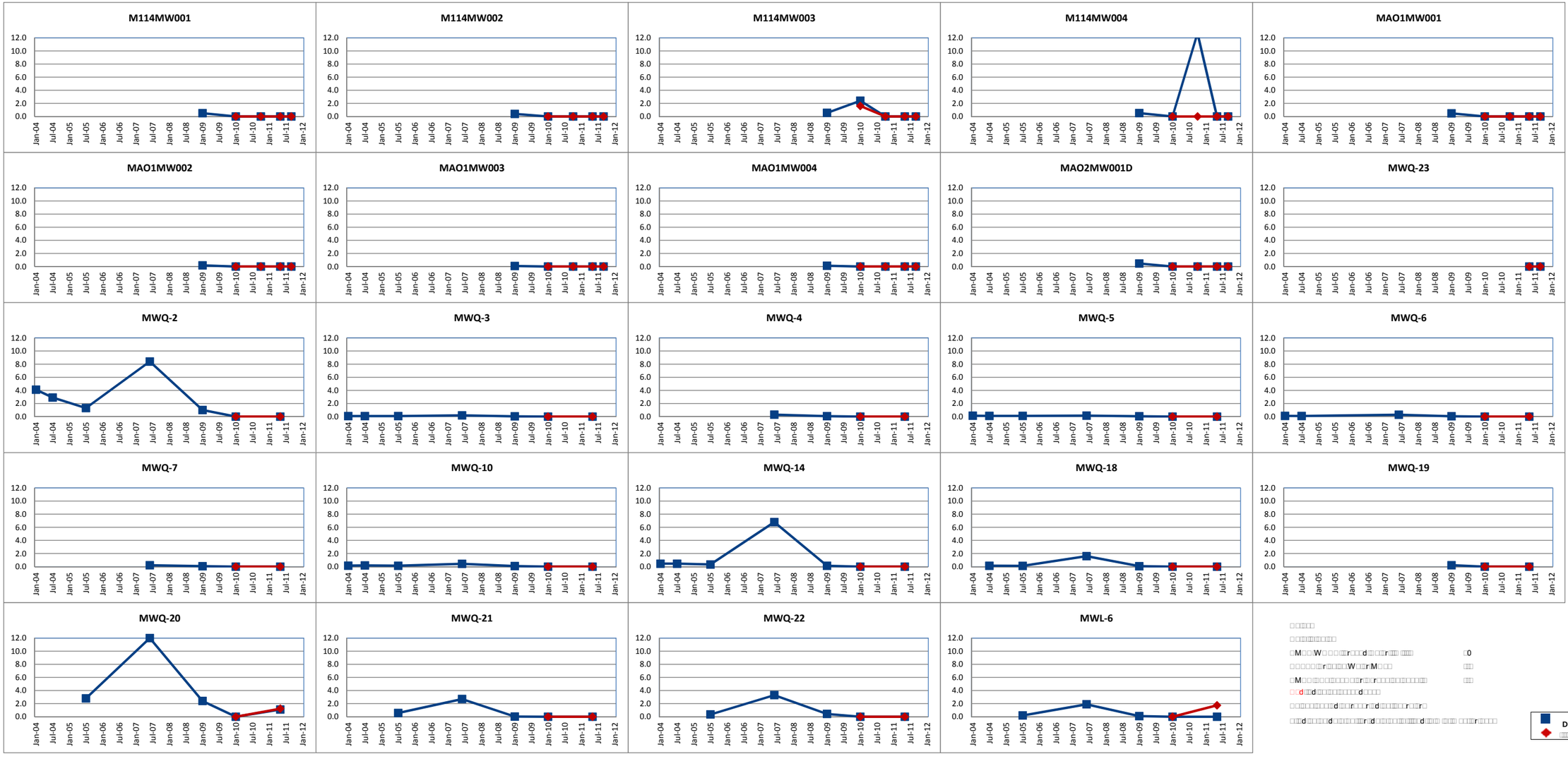
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	0.□□	0.0	0.4	1.□□	□.4	0.0	1.□7	0.0	0.□□	0.0	0.□□	0.0	0.1	0.0	0.1	0.0	0.□□	0.0	0.0	□.4	0.0	0.□□	0.0	0.□□	0.0	0.□□	0.0	0.□□	0.0	0.□□	0.0	0.4	0.0	□.□□	0.0	1.□□	0.0	0.□□	1.□□	1.□0	0.0	□.7	0.0	□.□□	1.7	1.□□
Avg	0.0	0.1	0.0	0.1	0.4	0.□□	0.0	□.□□	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	□.□□	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	1.□□	0.0	0.□□	0.0	0.1	0.0	□.7	0.0	0.7	0.0	0.□□	0.□□	0.4



MELROSE
AIR FORCE RANGE

Semiannual Network

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□□□□10	□□□0	□□40	4□□0	□□00	□□70	□□□0	□□10	□□□0	1□□0	0□□7	□□□0	□□10
□□□10	4□□7	4□□7	7□10	□□04	□□□□	□□□0	4□0□	□□04	□□4□	□□7□	□□□□	□□11
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Min	□□□	□□4	4□□	□□0	□□7	1□□	□□1	□□0	1□1	0□0	□□□	1□1
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Min	1□4	0□0	1□□	0□0	0□0	0□0	0□0	0□0
Max	17□1	□□7	□□1	□□□	□□□	1□7	0□0	0□0
Avg	□□□	□□□	□□□	1□□	1□4	0□□	0□0	0□0

Annual Network

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Min	1□4	0□0	0□0	0□0	0□0	0□0	0□□	0□0	1□0	0□0	0□0	0□□	0□0	0□4
Max	□□□	4□□	1□7	1□□	0□0	1□1	1□□	1□4	1□4	1□7	1□0	1□□	0□□	1□1
Avg	□□0	□□0	0□□	1□1	0□0	0□4	1□1	0□7	1□□	1□0	0□□	1□0	0□□	0□7

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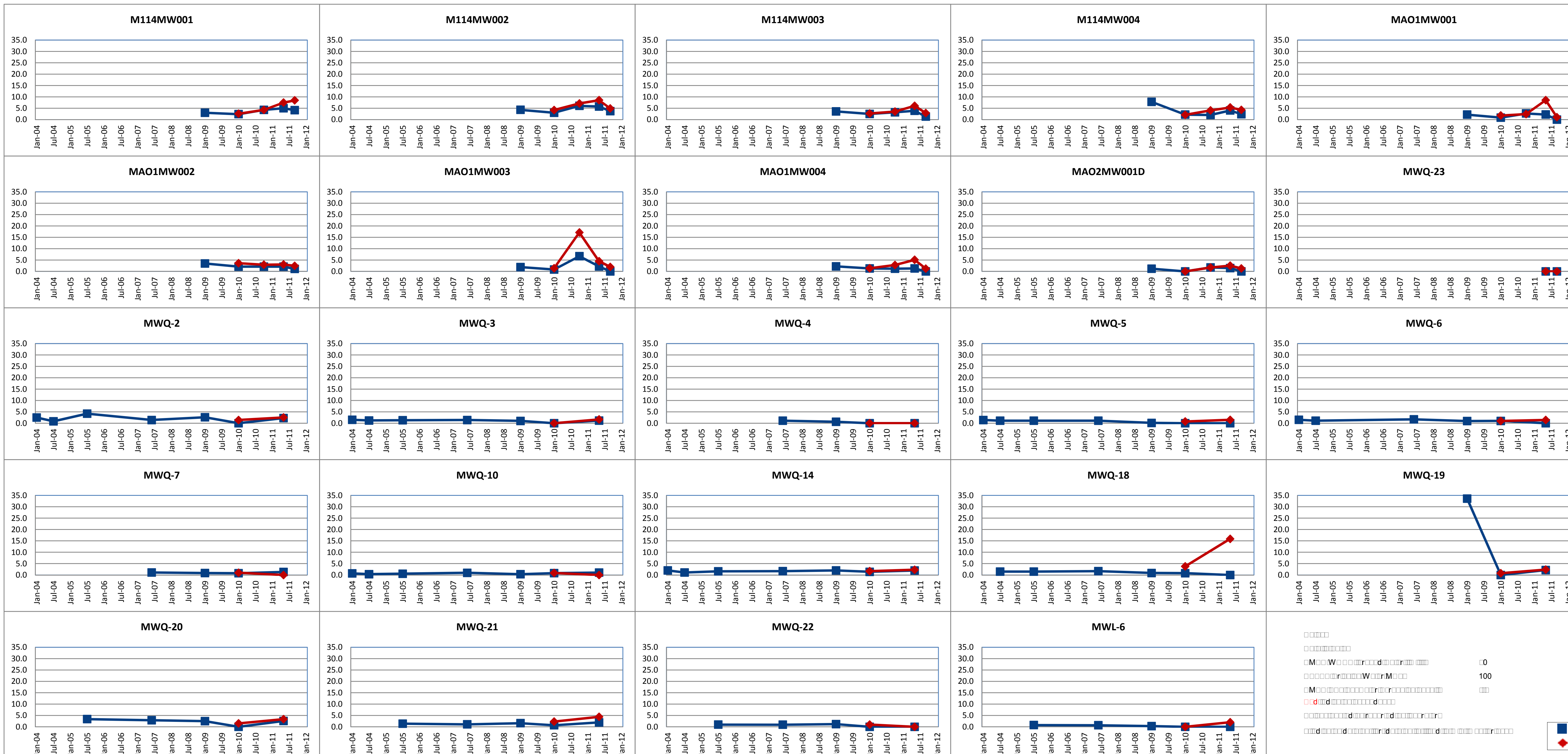
Min	1□7	1□1	□□□	0□0	0□□	0□0	1□□	0□0	□□□	0□7	0□0	0□0	0□0	0□0
Max	□□□	□□0	1□□□	1□7	□□4	□□□□	□□4	□□4	4□4	□□0	1□0	1□□	□□0	0□□
Avg	□□0	1□7	□□□	1□1	1□□	11□□	□□4	□□□	□□4	1□4	0□□	0□□	1□0	0□4



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Dissolved
□□□ Total

MELROSE
AIR FORCE RANGE

□□□□	Semiannual Network																		Annual Network																					
	□WM□□114								□WM□□1□0								□WM□1□1		□□□□r□□□d		MW□□□		MW□□□		MW□□4		MW□□□		MW□□□		□□□□r□□□d		□□□□r□□□d																	
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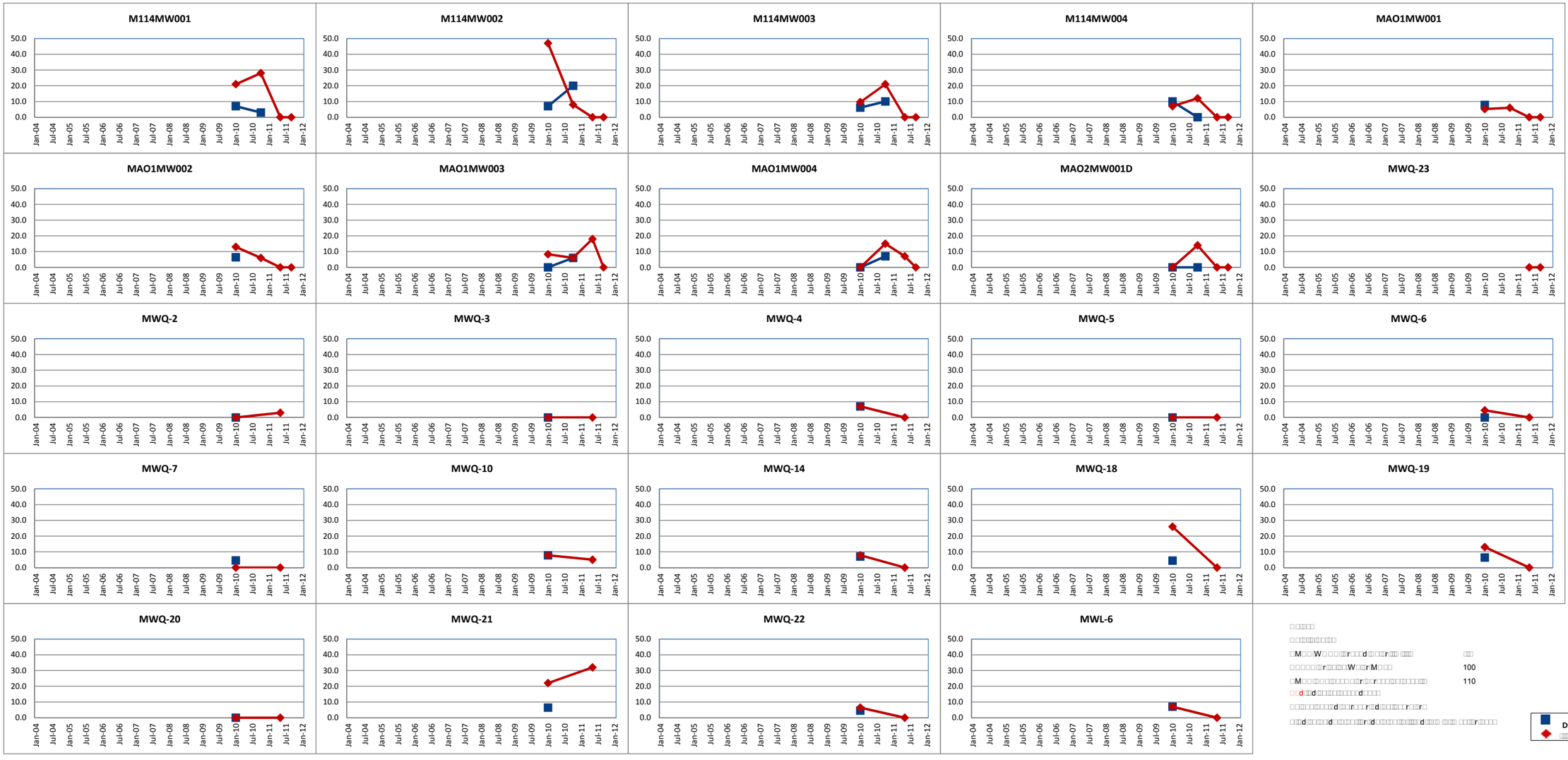
Min	0□0	□0	0□0	7□0	0□0	□1	0□0	0□0	0□0	7□□	0□0	□4	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	0□0	4□□	□0	7□□	0□0	7□0	0□0	4□4	0□0	□4	0□0	0□0	□□0	□4	0□0	4□□	0□0	7□0
Max	□□0	7□0	47□0	□0□0	□1□0	10□0	1□□0	10□0	□□0	7□□	1□□0	□4	1□□0	□0	1□□0	7□0	14□0	0□0	0□0	0□0	□0	0□0	0□0	0□0	7□0	7□0	0□0	0□0	0□0	4□□	7□□	7□□	7□□	7□0	□□0	4□4	1□□0	□4	0□0	0□0	□□0	□4	□4	4□□	7□0	7□0
Avg	1□□□	□0	1□□□	1□□□	7□7	□1	4□□	□0	□□□	7□□	4□□	□4	□1	□0	□□□	□□□	□□□	0□0	0□0	0□0	1□□	0□0	0□0	0□0	7□0	0□0	0□0	0□0	0□0	4□□	0□0	7□□	□4	7□□	□□□	7□0	1□□0	4□4	□□□	□4	0□0	0□0	□7□0	□4	□□□	4□□	□□□	7□0



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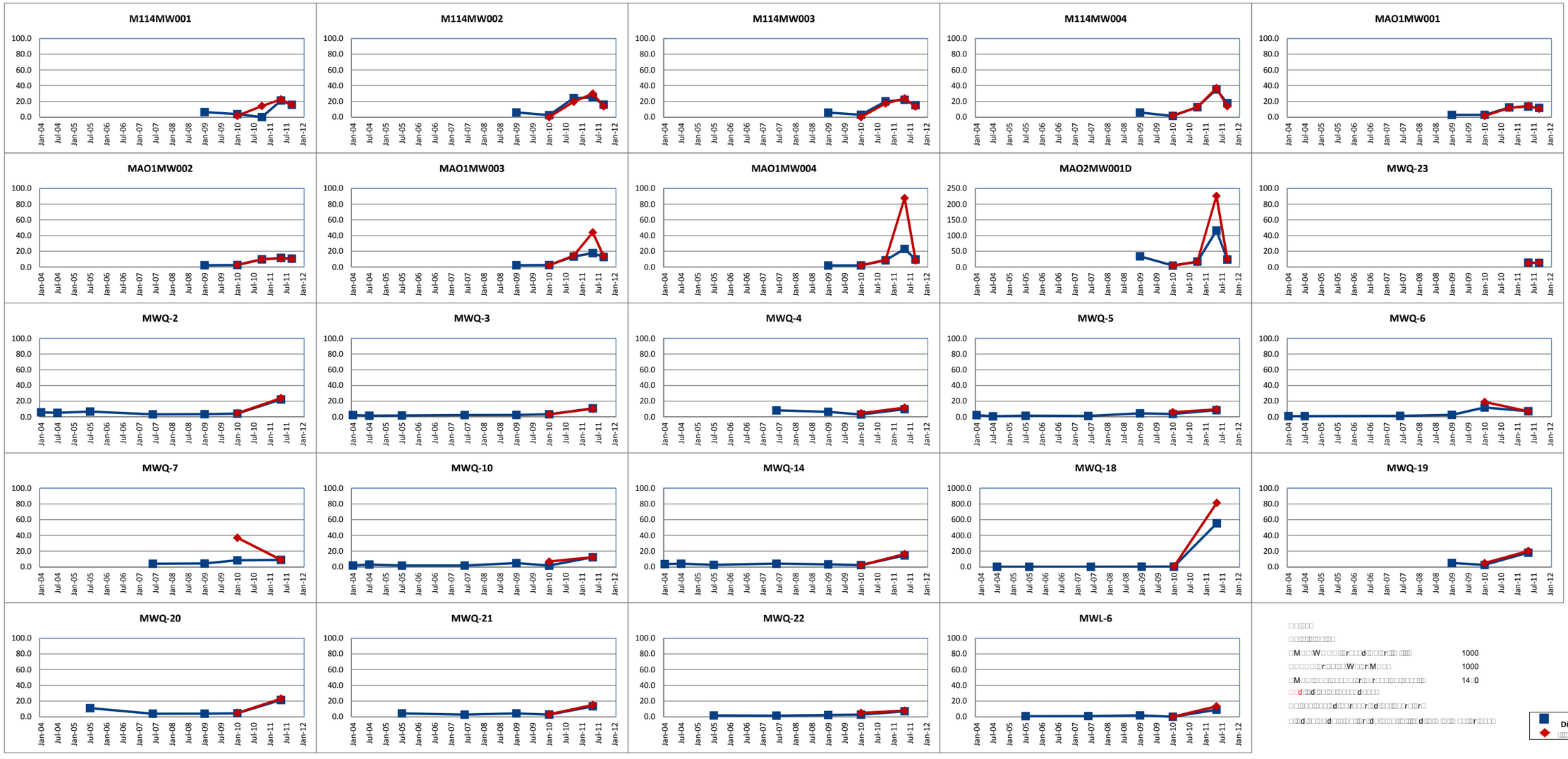

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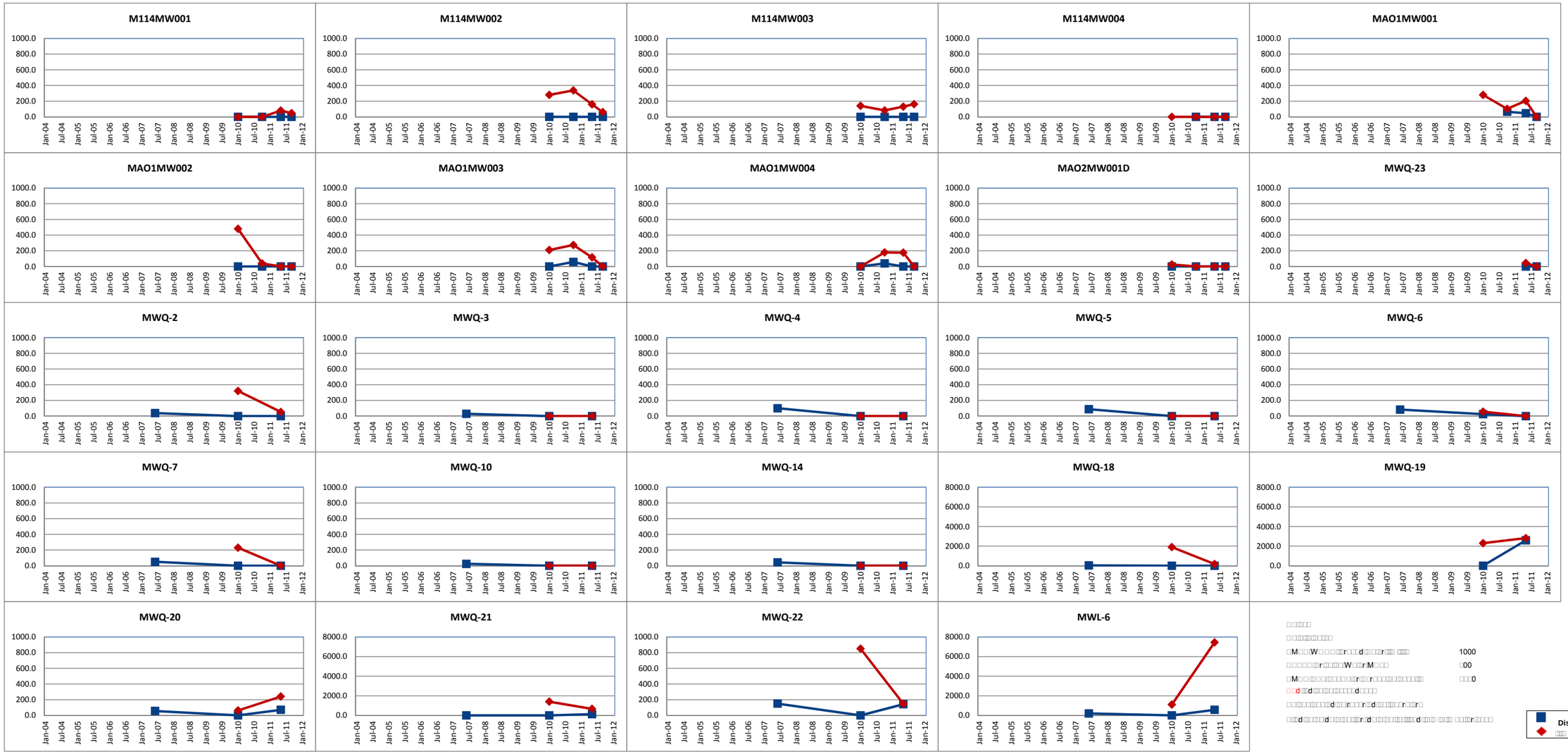

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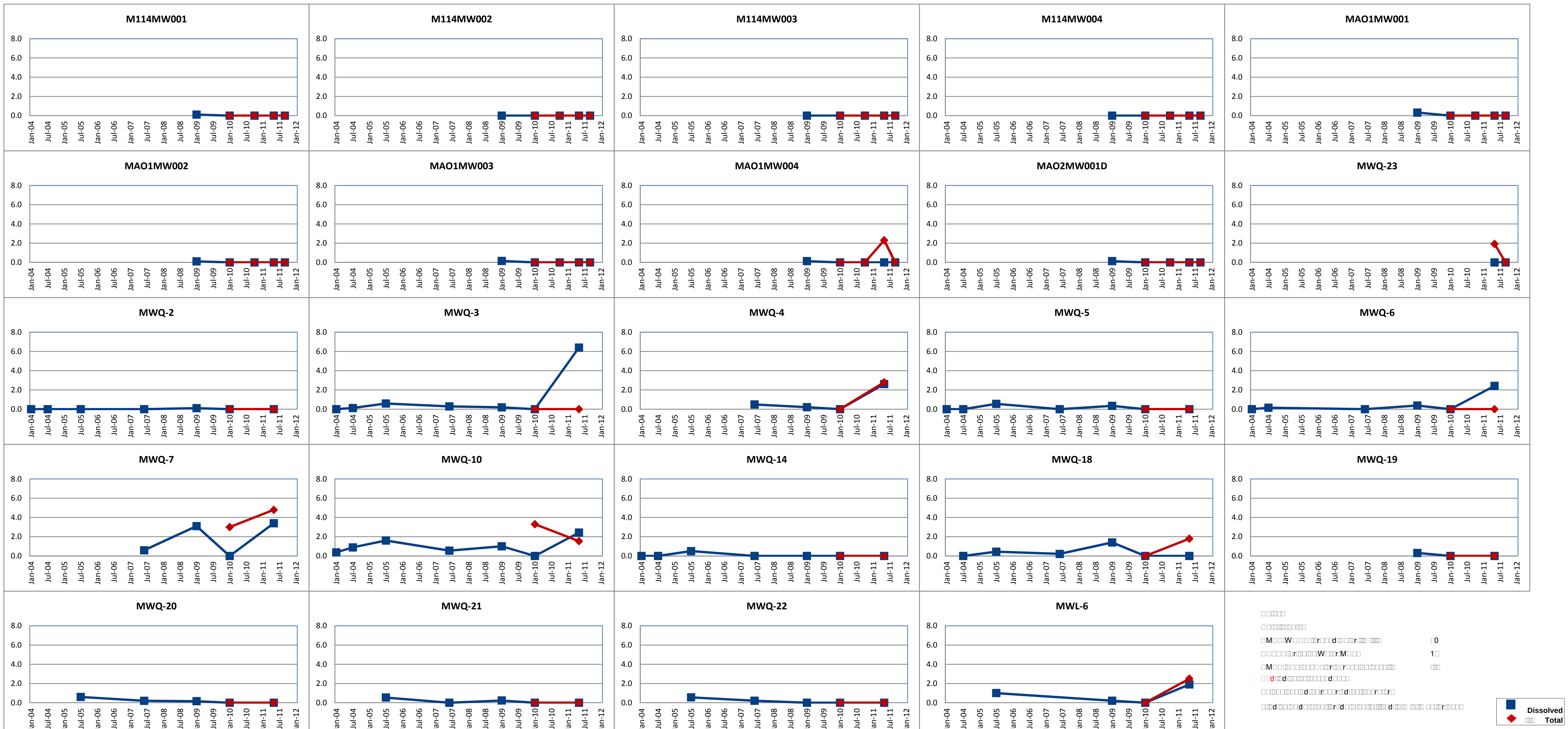

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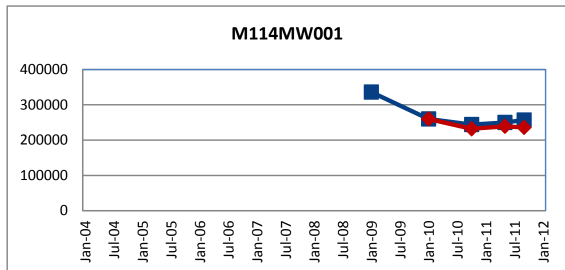

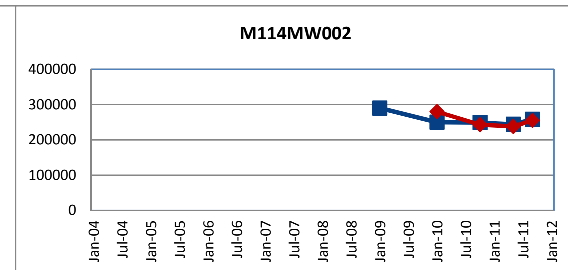

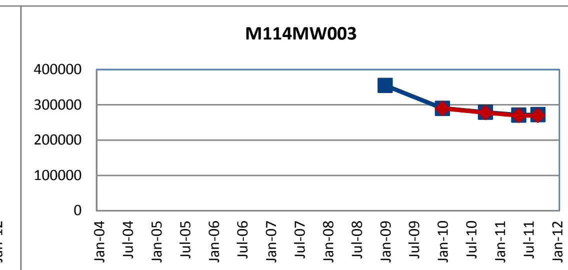

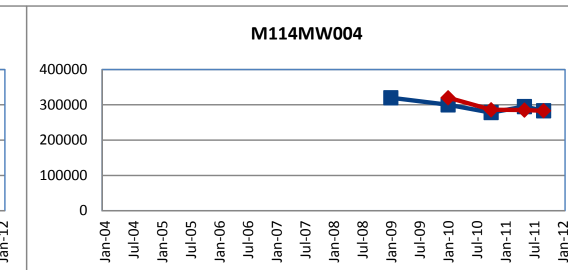

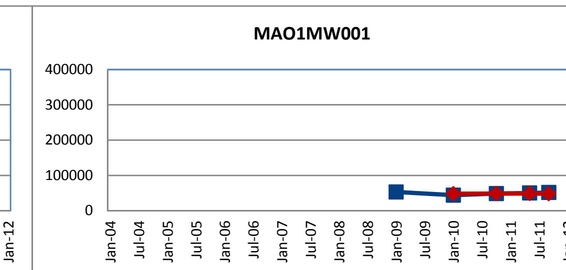

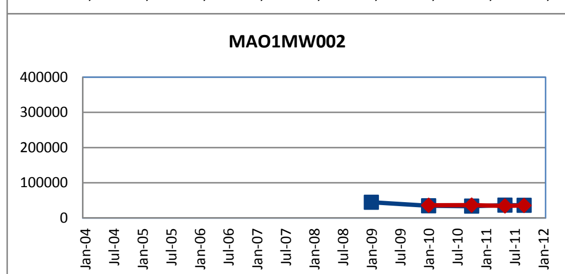

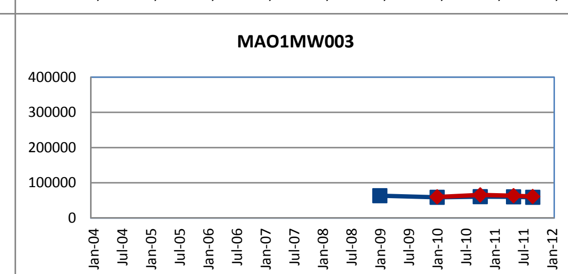

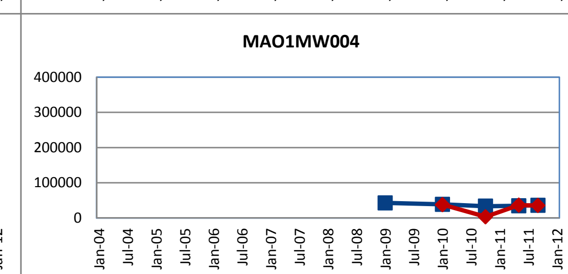

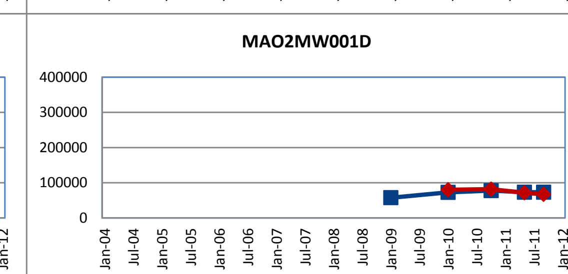

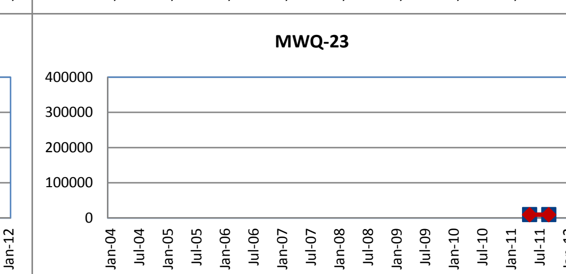

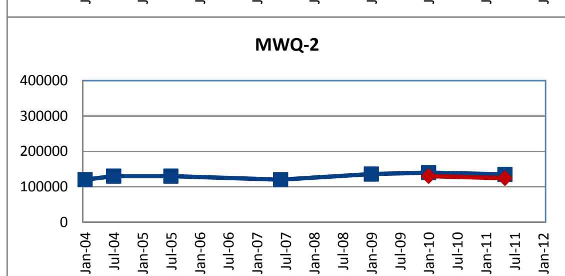

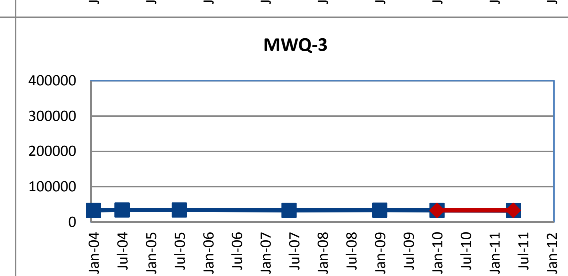

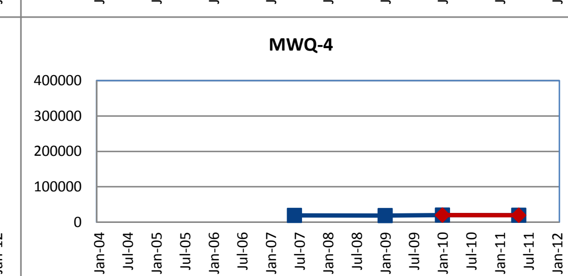

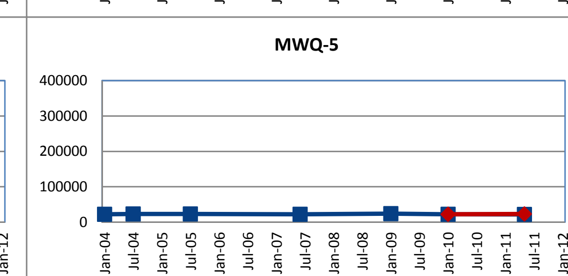

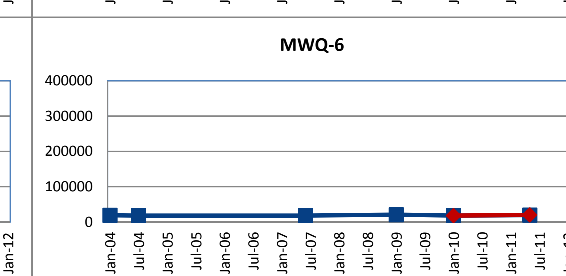

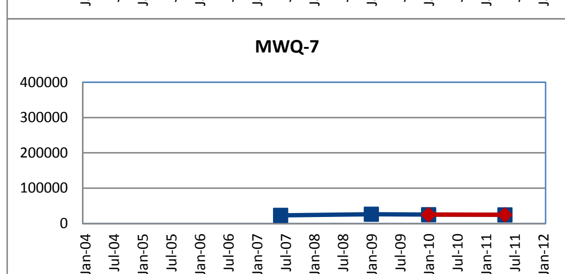

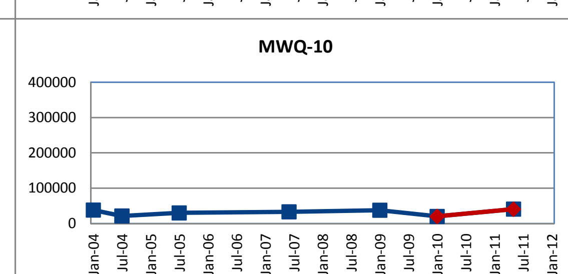

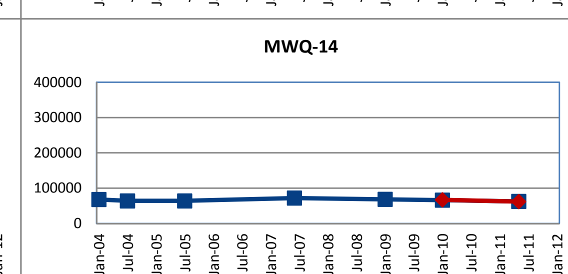

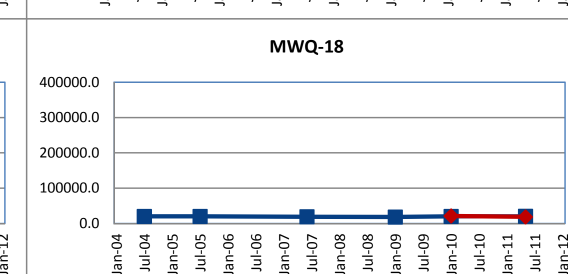

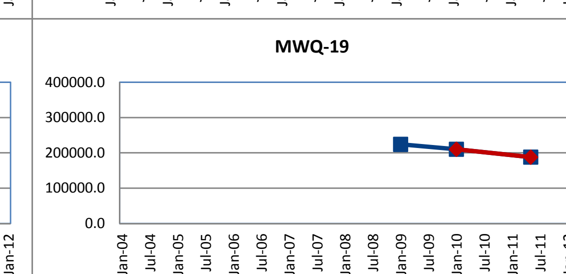

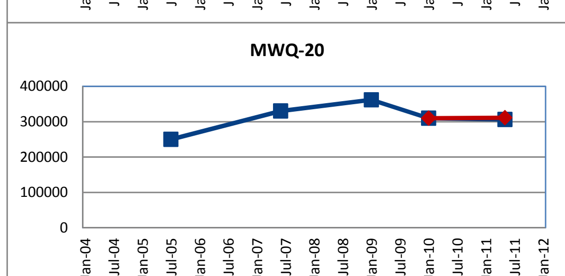

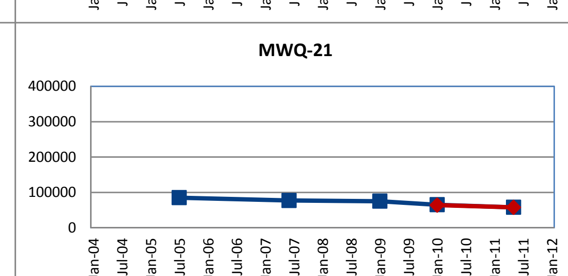

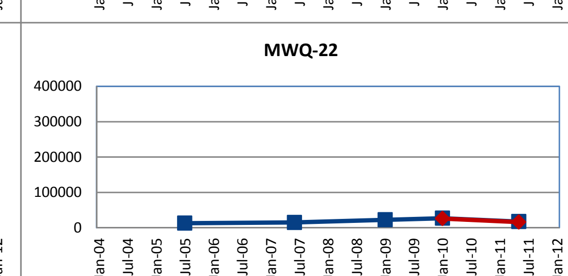

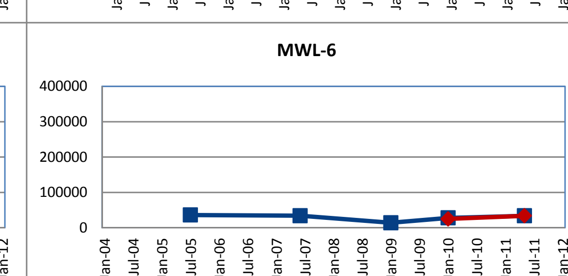

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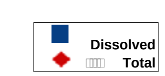

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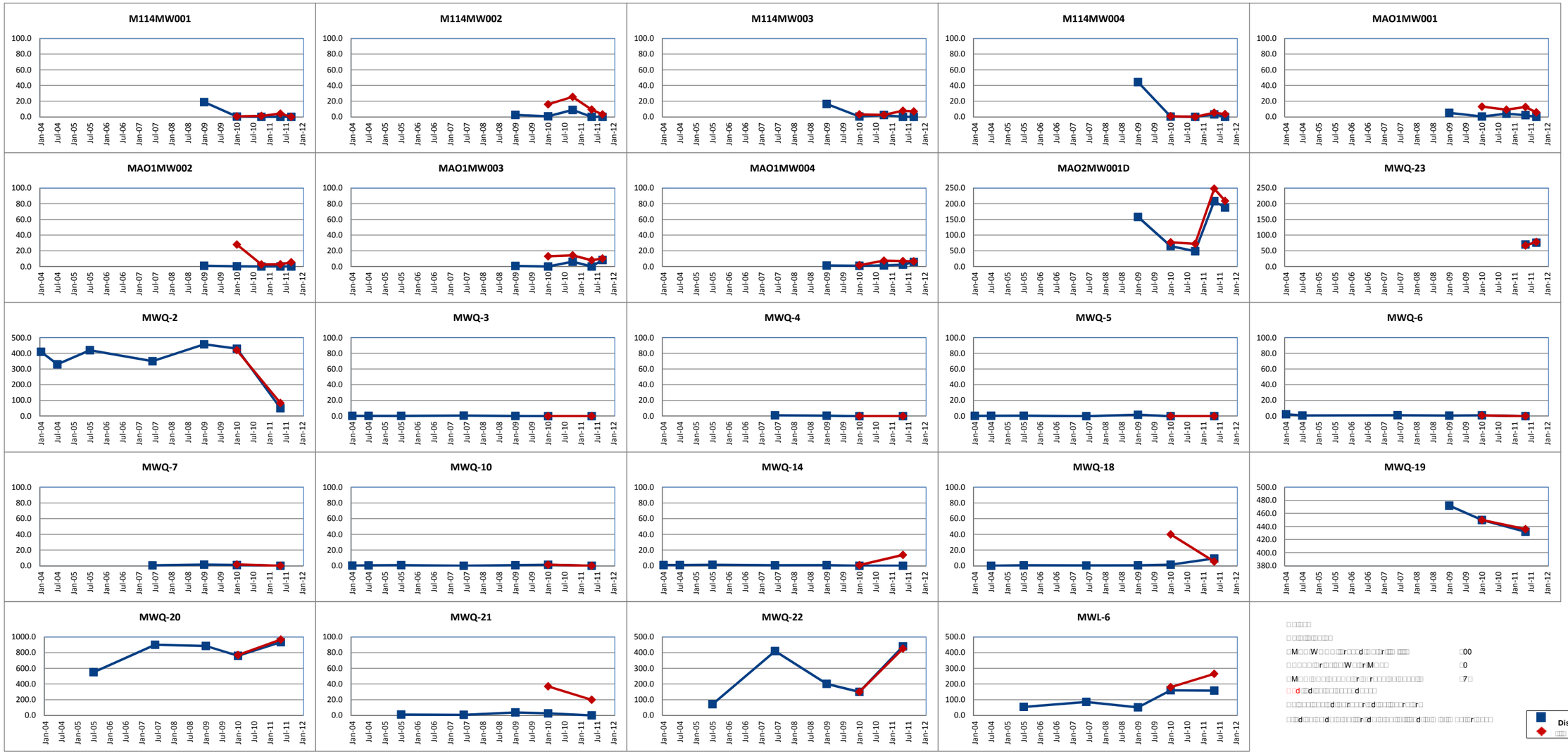

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Min	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00	0□00
Max	0□00	0□1□	0□00	0□10	0□00	0□00	0□00	0□0□	0□0□	0□10	0□0□	0□04	0□00	0□0□
Avg	0□00	0□0□	0□00	0□0□	0□00	0□00	0□00	0□0□	0□01	0□0□	0□0□	0□01	0□00	0□0□

□□□□	Annual Network (cont.)													
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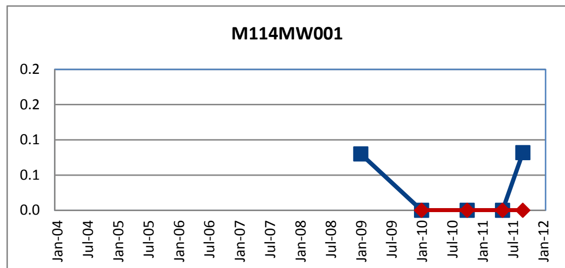
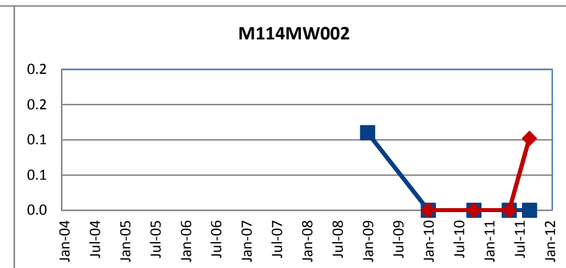
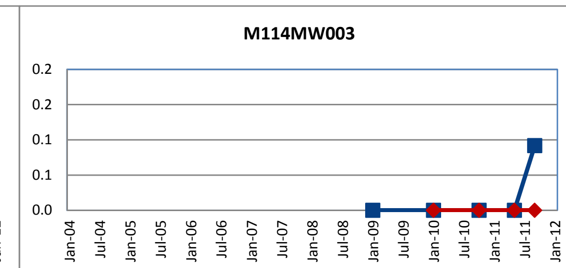
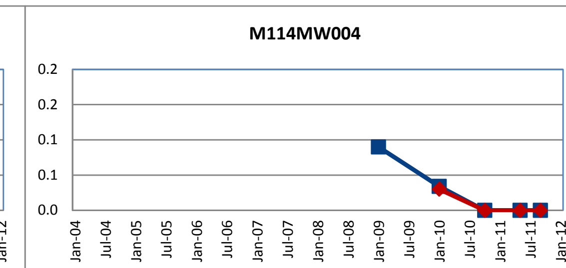
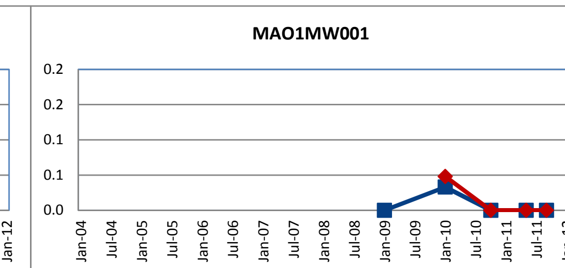
Max	0□00	0□0□	0□04	0□07	0□04	0□04	0□04	0□04	0□00	0□00	0□00	0□00	0□00	0□00
Avg	0□00	0□0□	0□0□	0□0□	0□0□	0□01	0□0□	0□01	0□00	0□00	0□00	0□00	0□00	0□00

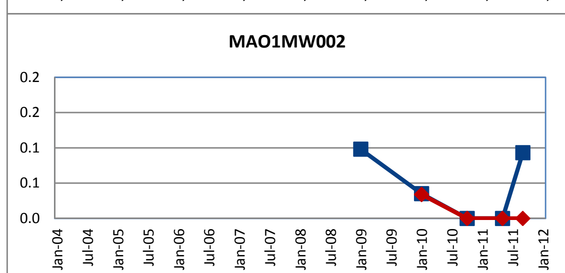


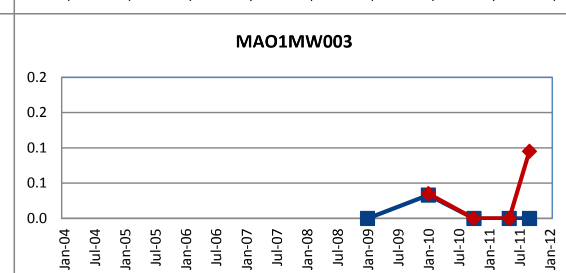


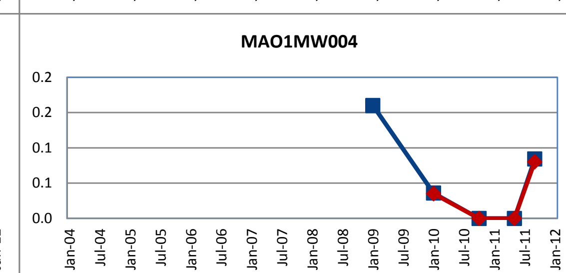


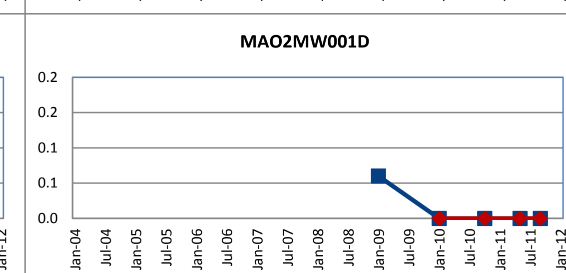


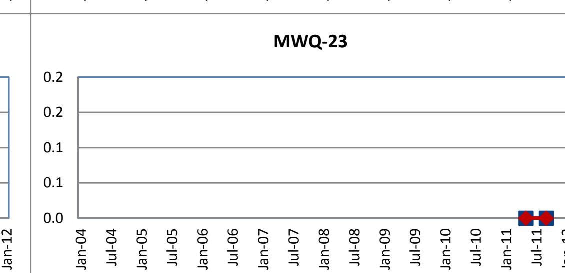


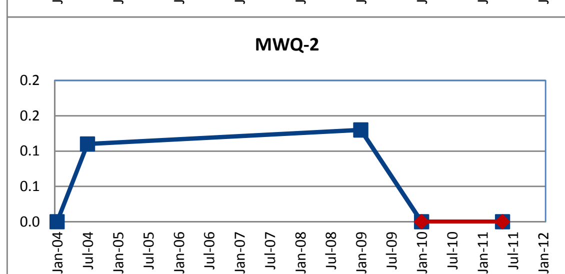


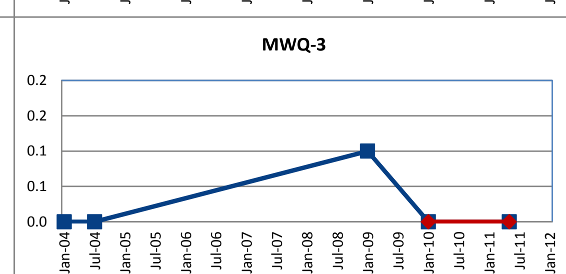


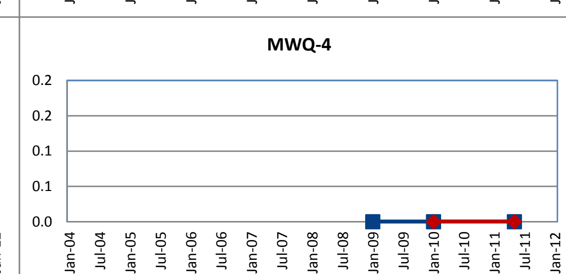


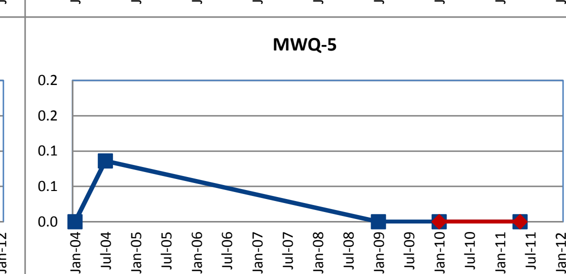


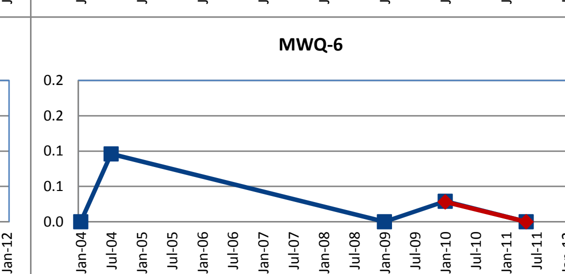


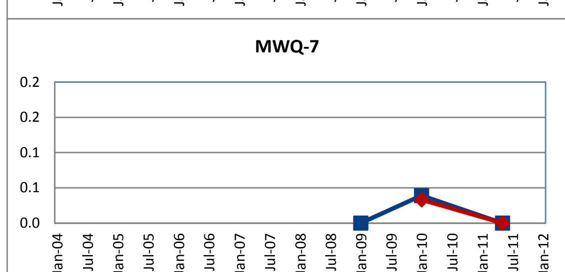


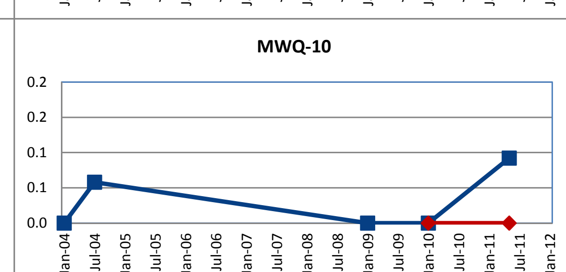


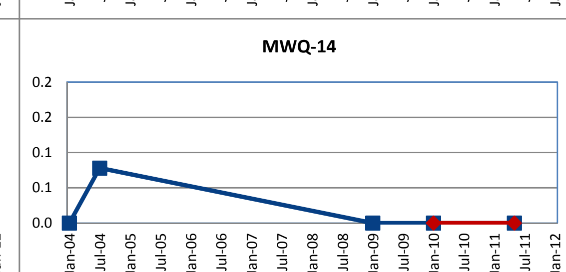


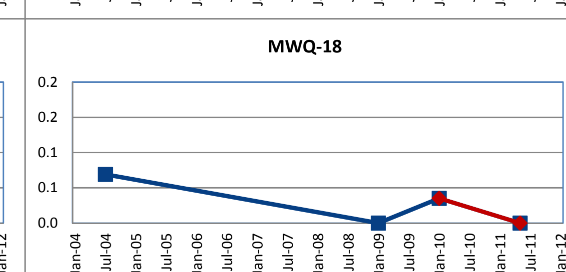


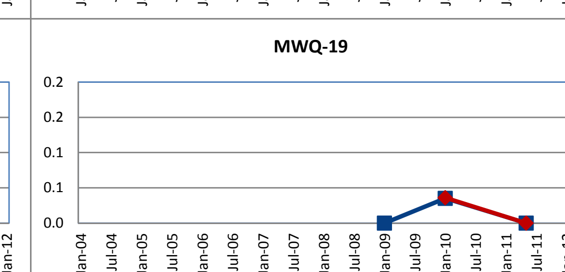


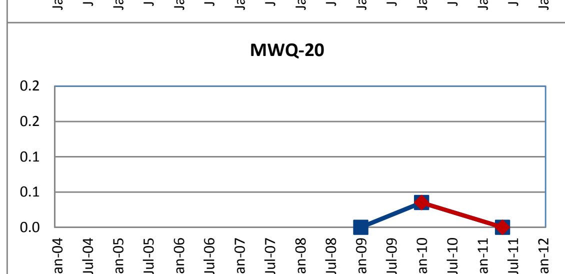


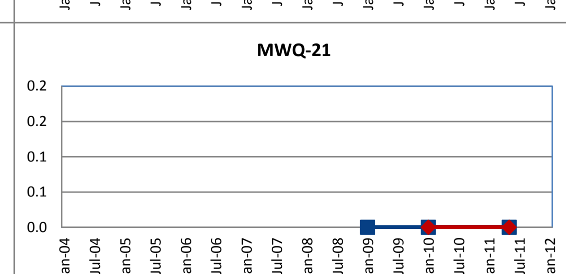


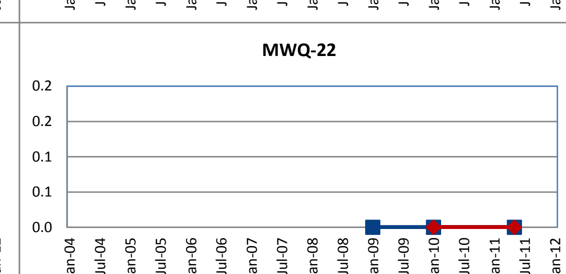


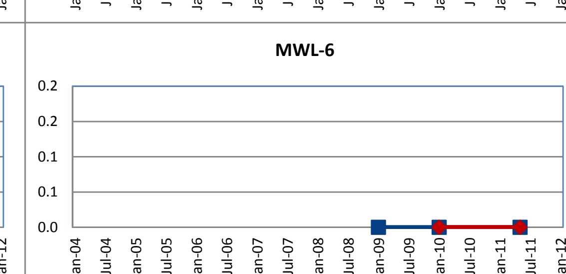












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Dissolved
Total

MELROSE
AIR FORCE RANGE

Semiannual Network

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M□□11	1□□	17□	□0□	□0□	□07	□4□	1□□	1□	4□4	□□□	7□44	□7□	4□□	4□0□	7□1	□□7	1□1	17□	□1□	□4
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Max	□4□	□□□	□□7	□□1	1□0	1□0	□□7	□□1	7□	□□	□4	11□4	4□7	4□	7□	□□	1□1	□□□	□1□	□4□0
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Annual Network

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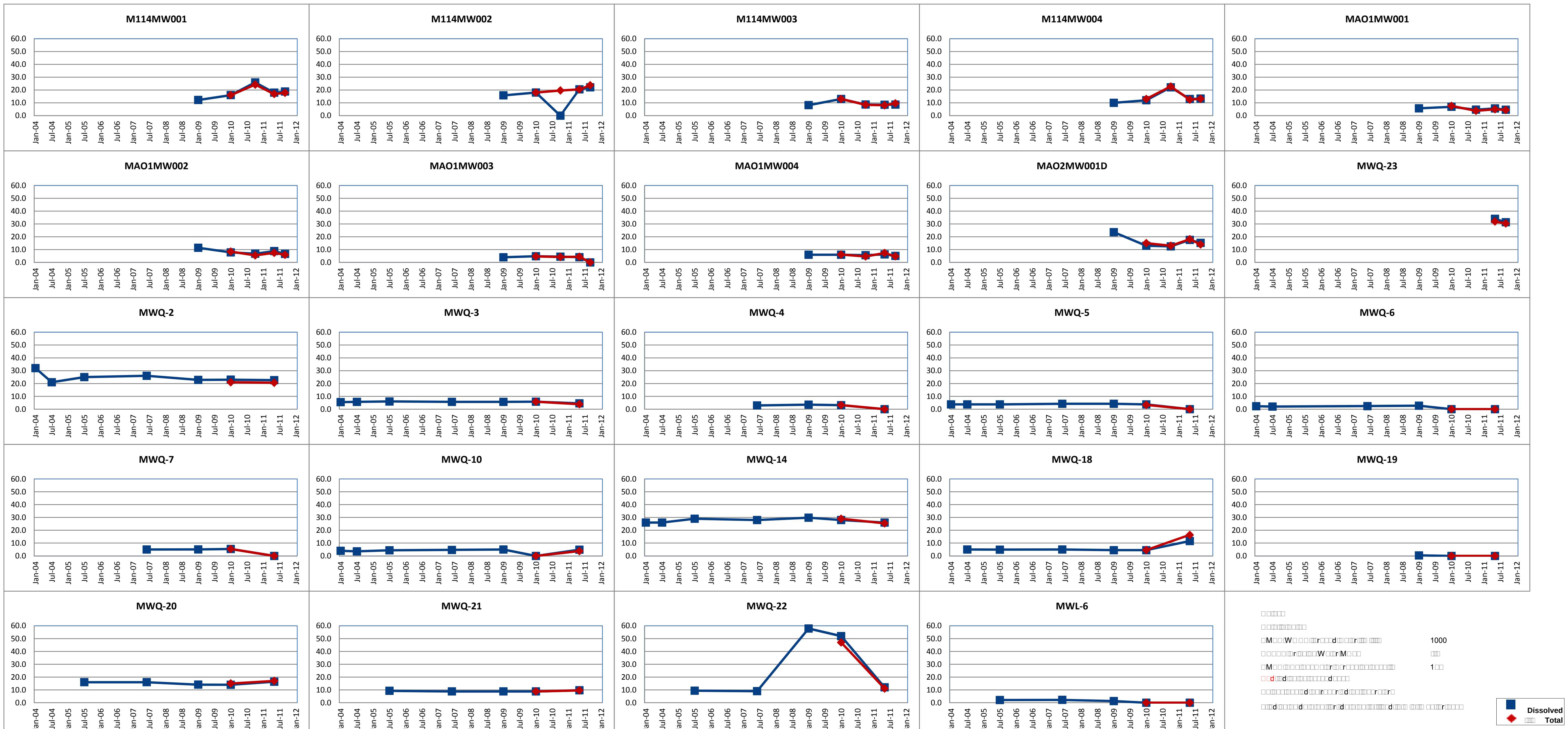

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MELROSE
AIR FORCE RANGE

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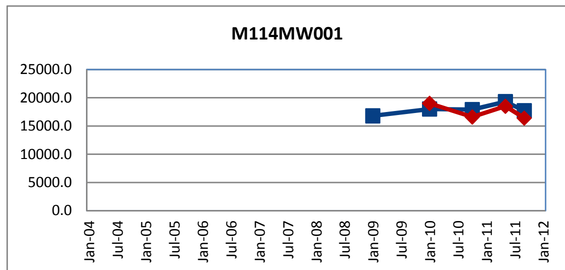
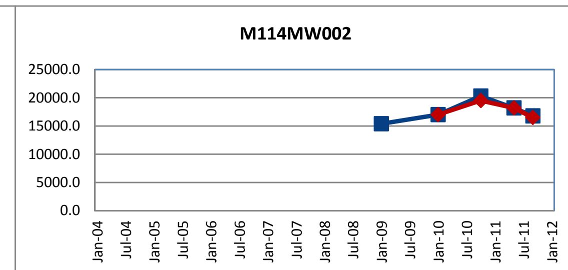
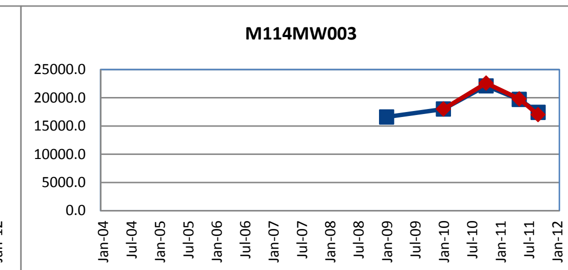
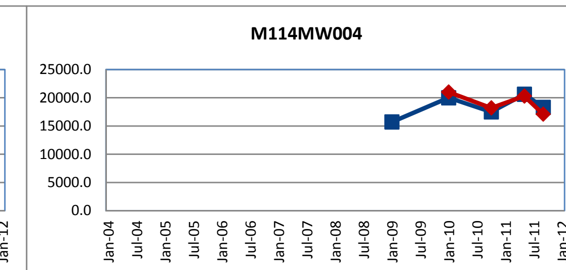
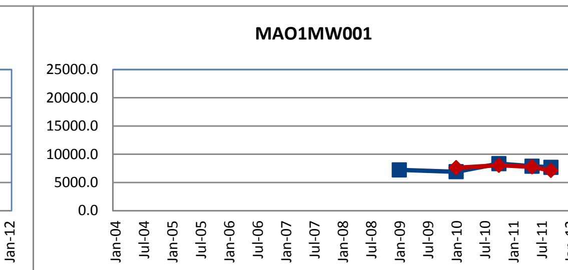
Avg	107□0	10070	□□0□	□□□□□	□1□□□	□□4□	□1□0	□□□41	□□□0	□□4□	□□□□□	□4□□	4□□□	□0□4	11700	11□□7	□1□□□	□□□17	10700	10□□00	1□□00	14□00	10□□0	10714	□□□0	□□□□□	□□□□□	4□□□□

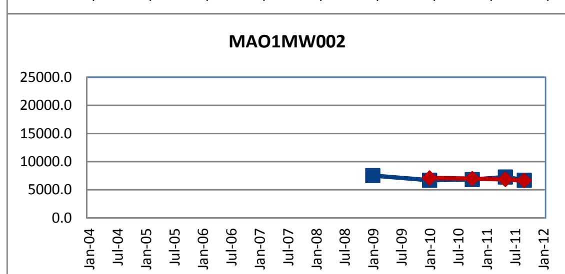


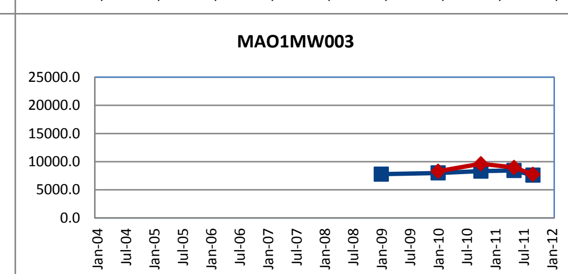


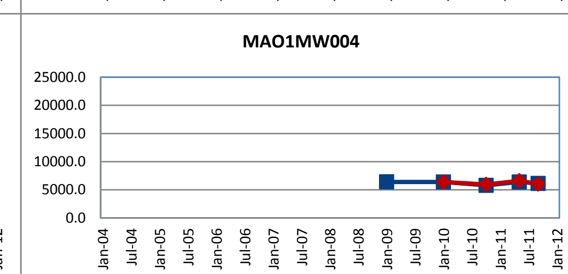


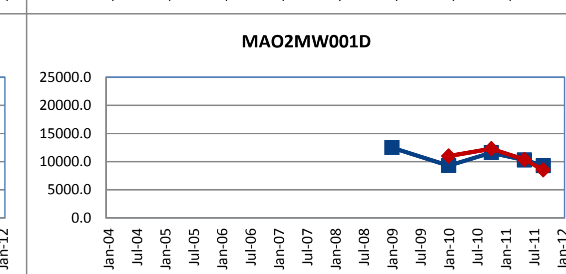


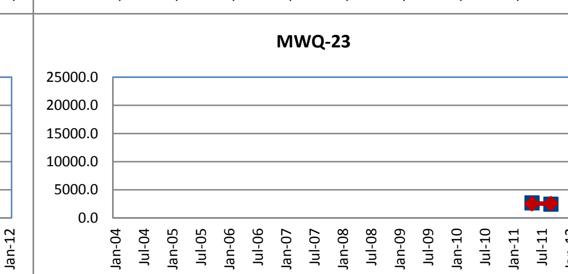


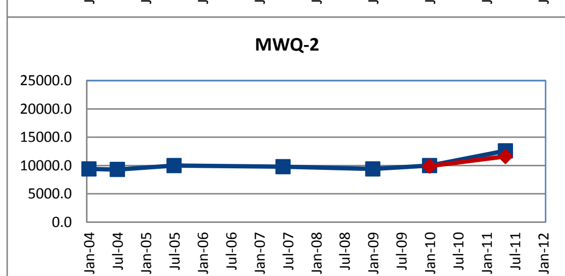


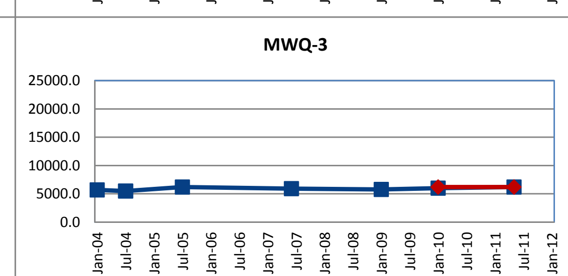


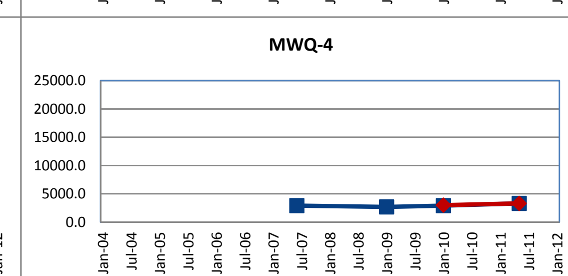


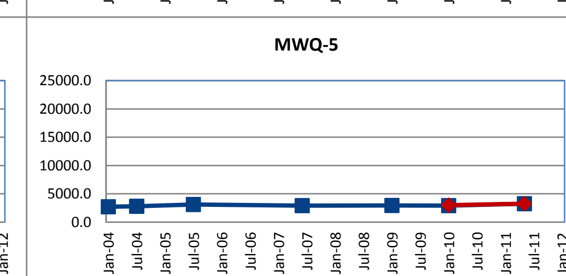


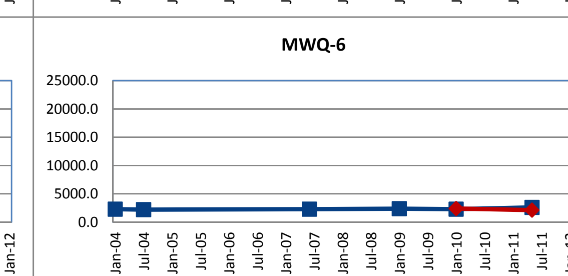


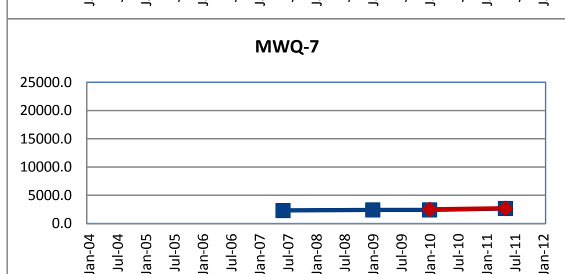


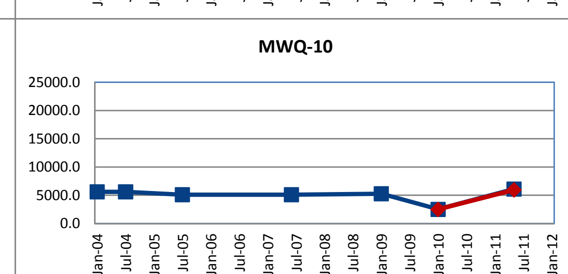


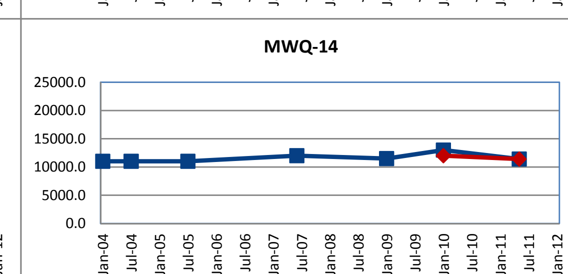


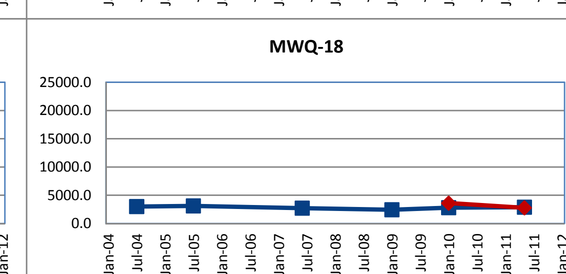


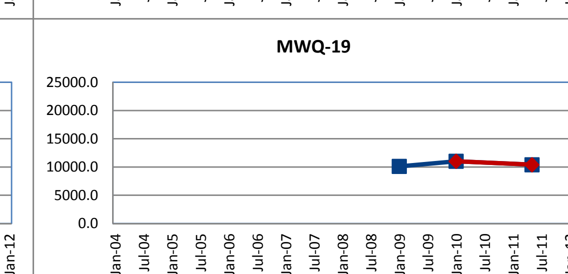


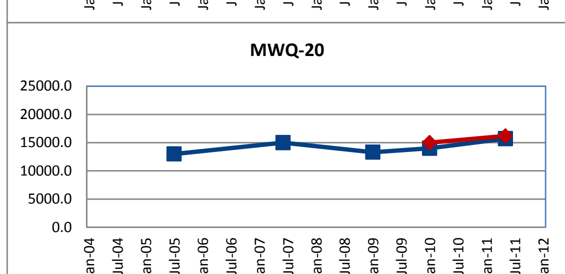


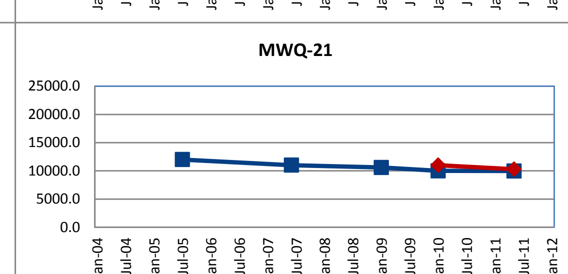


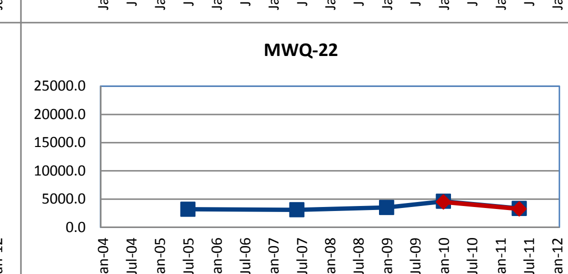


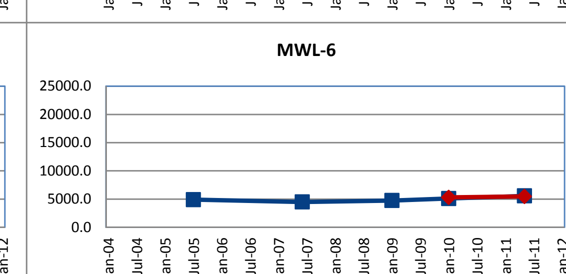












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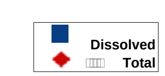

MELROSE
AIR FORCE RANGE

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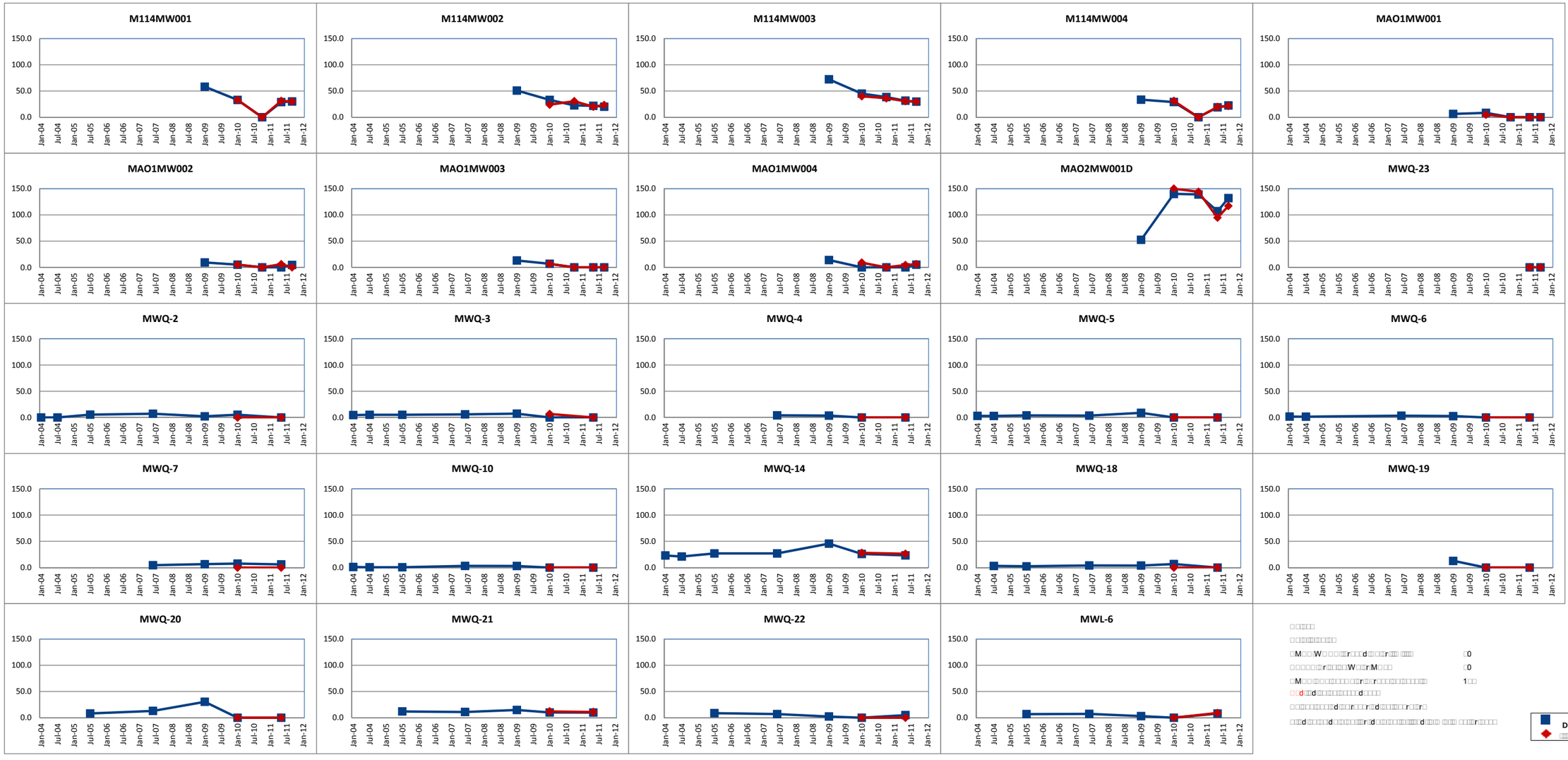

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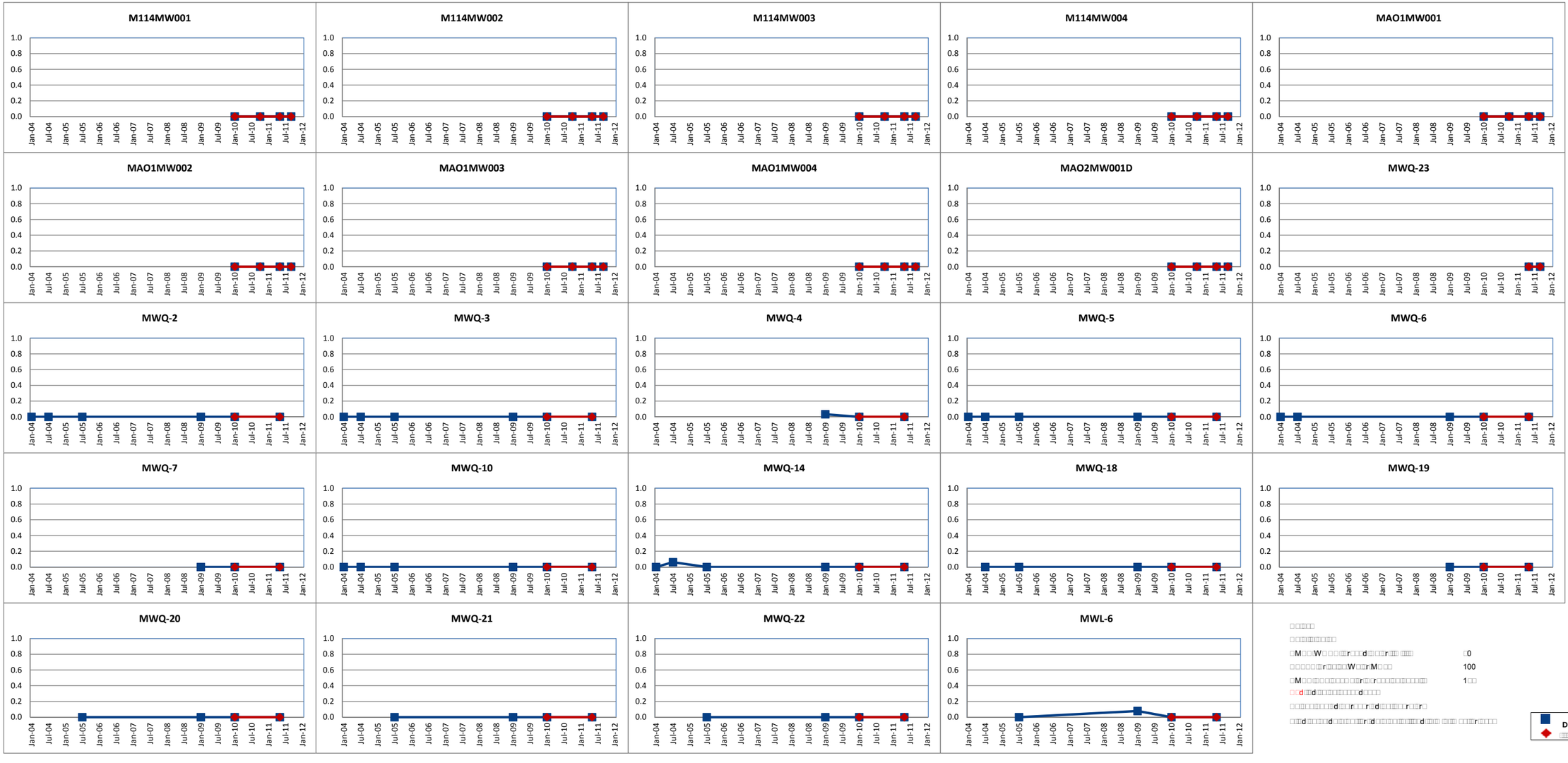
Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Avg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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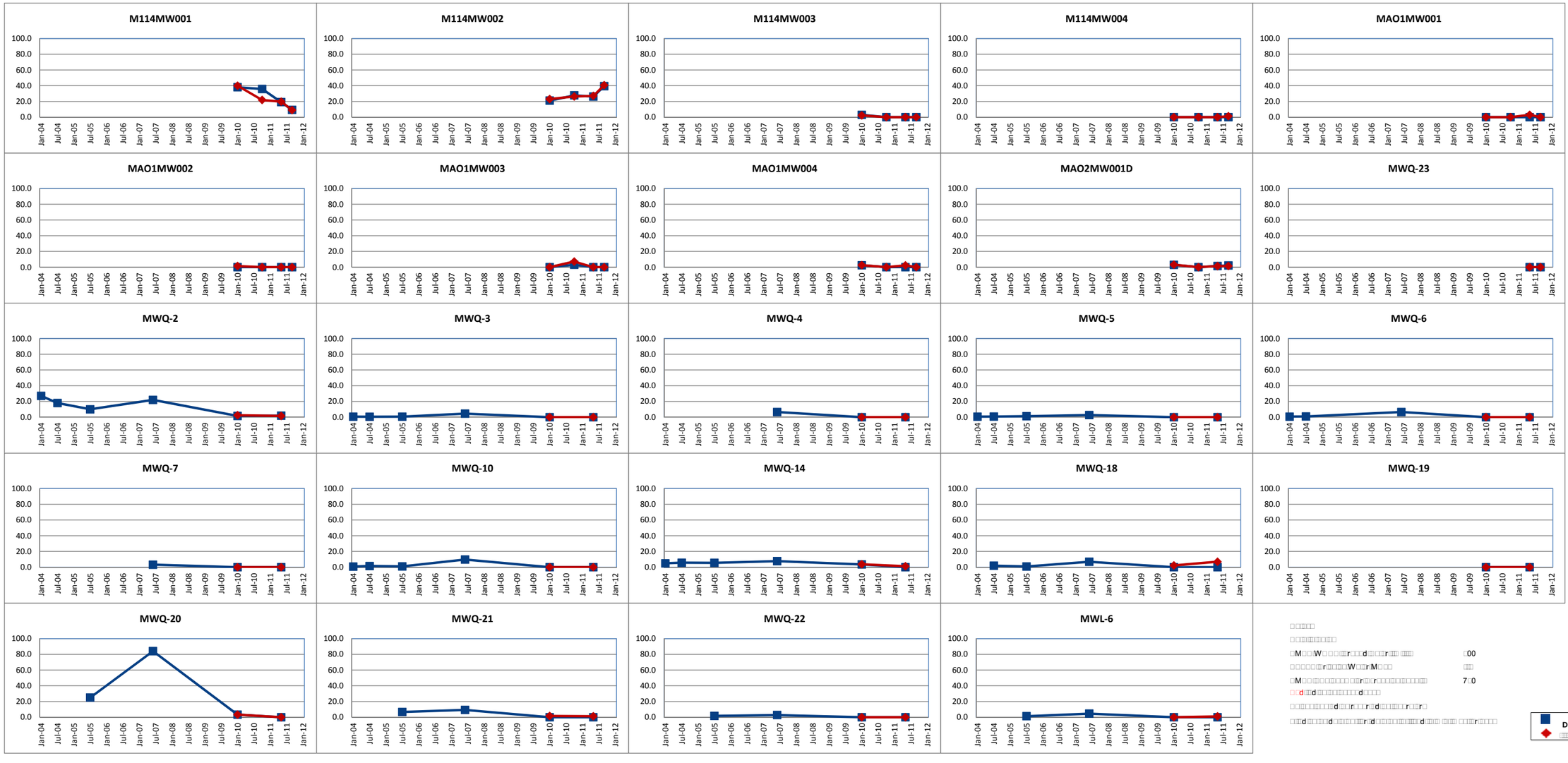

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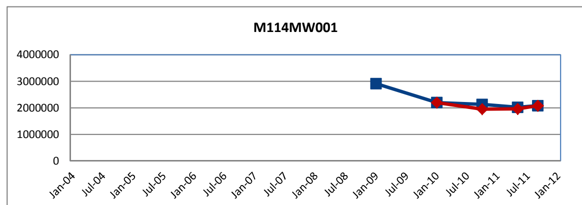

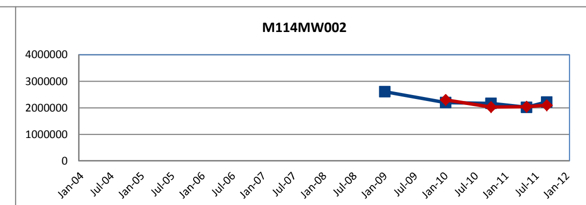

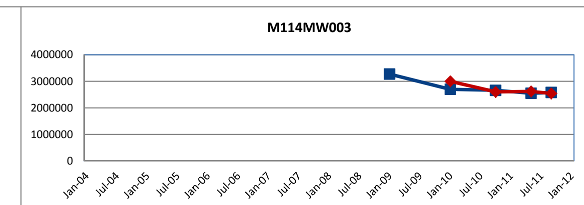

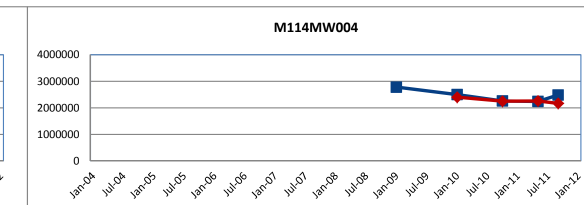

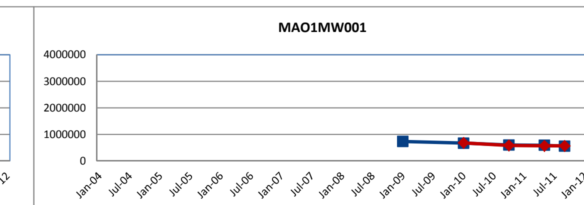

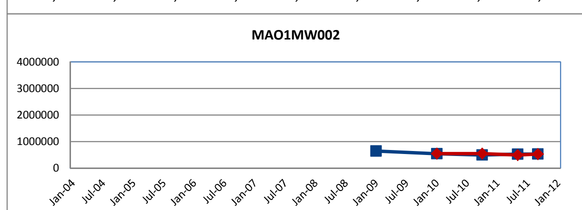

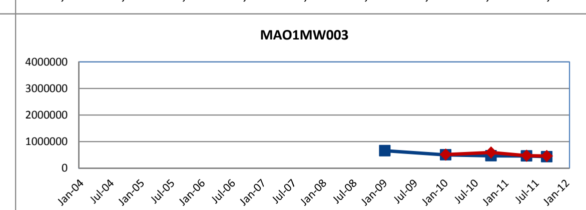

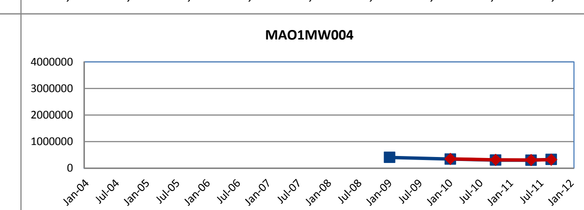

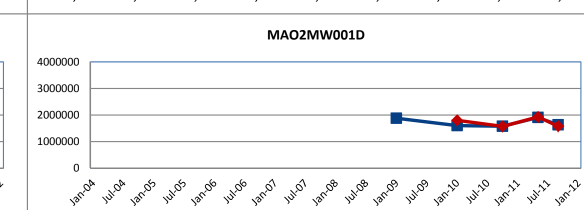

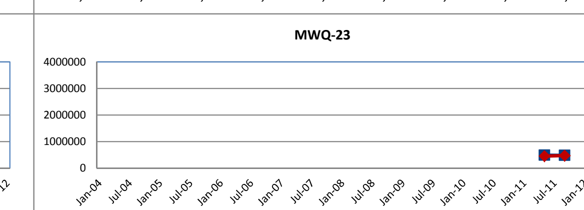

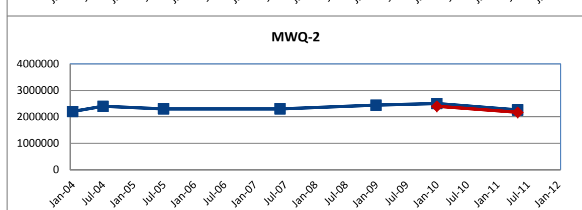

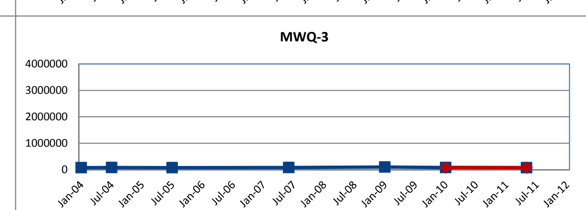

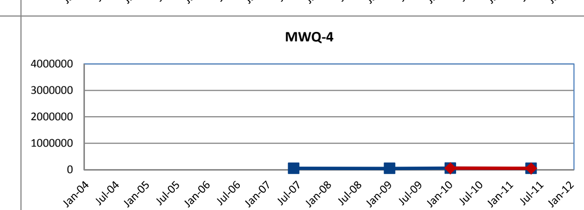

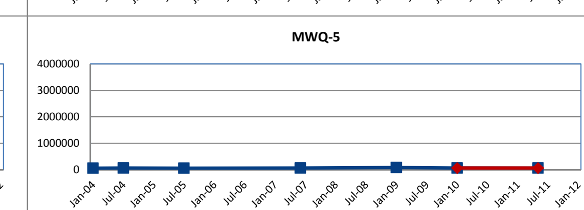

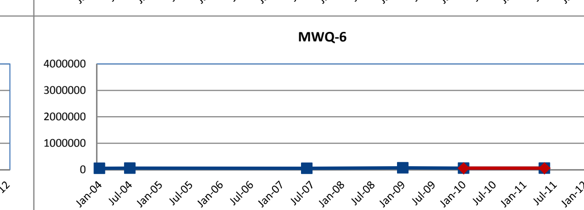

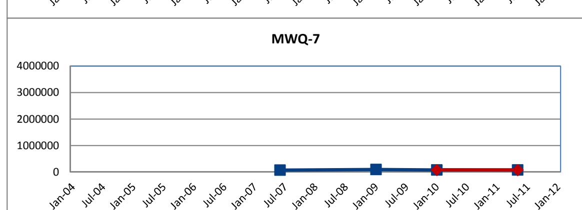

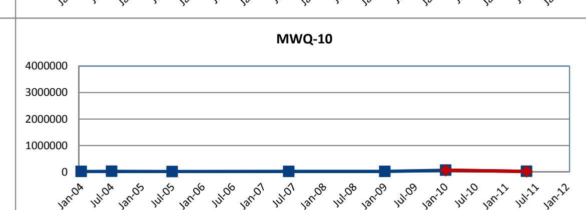

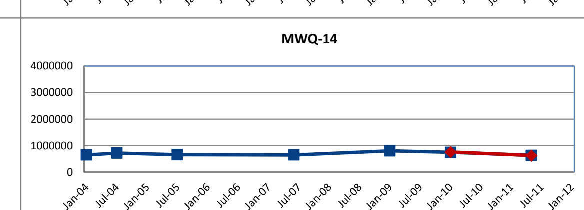

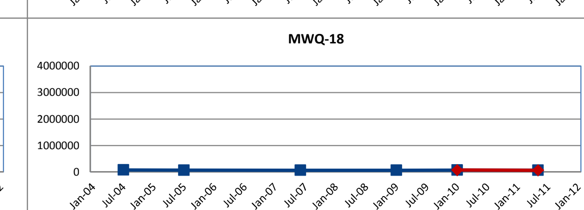

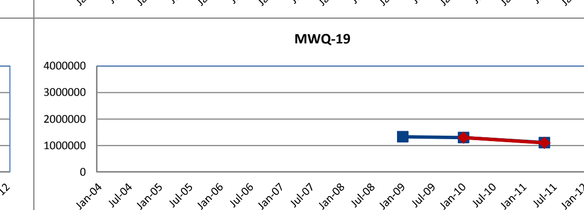

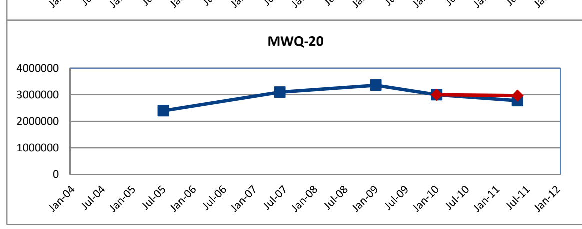

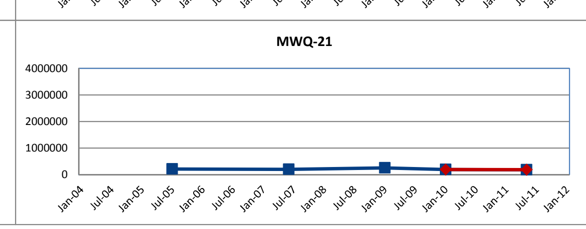

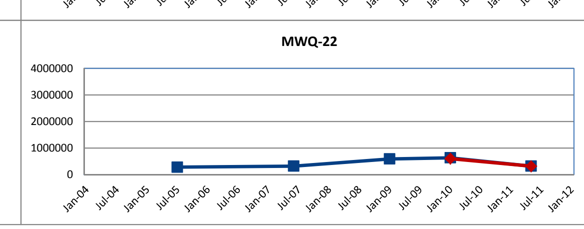

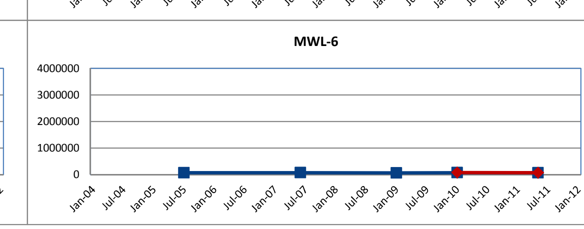

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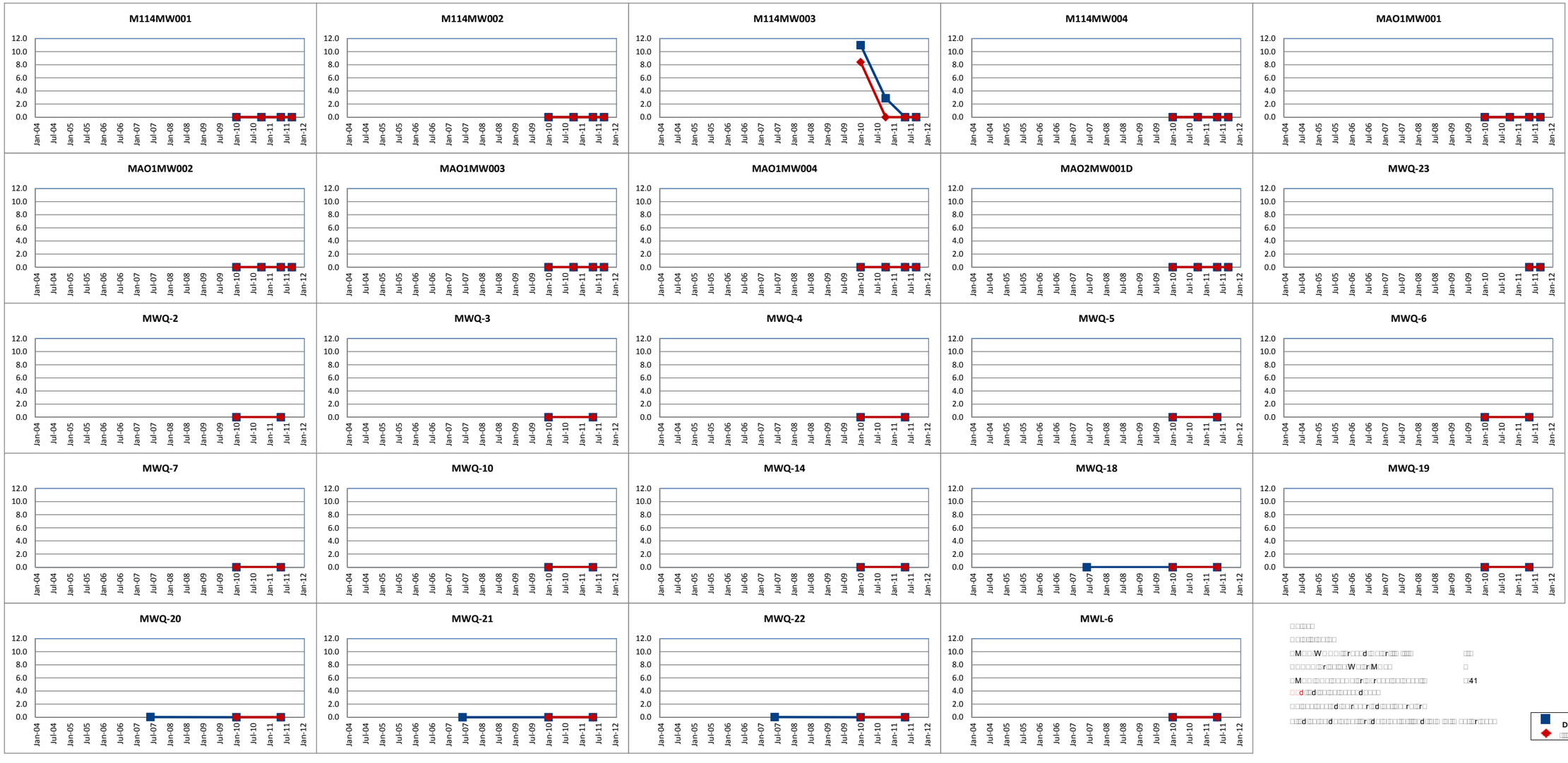
Avg	0.0	0.0	0.0	0.0	□1	□□	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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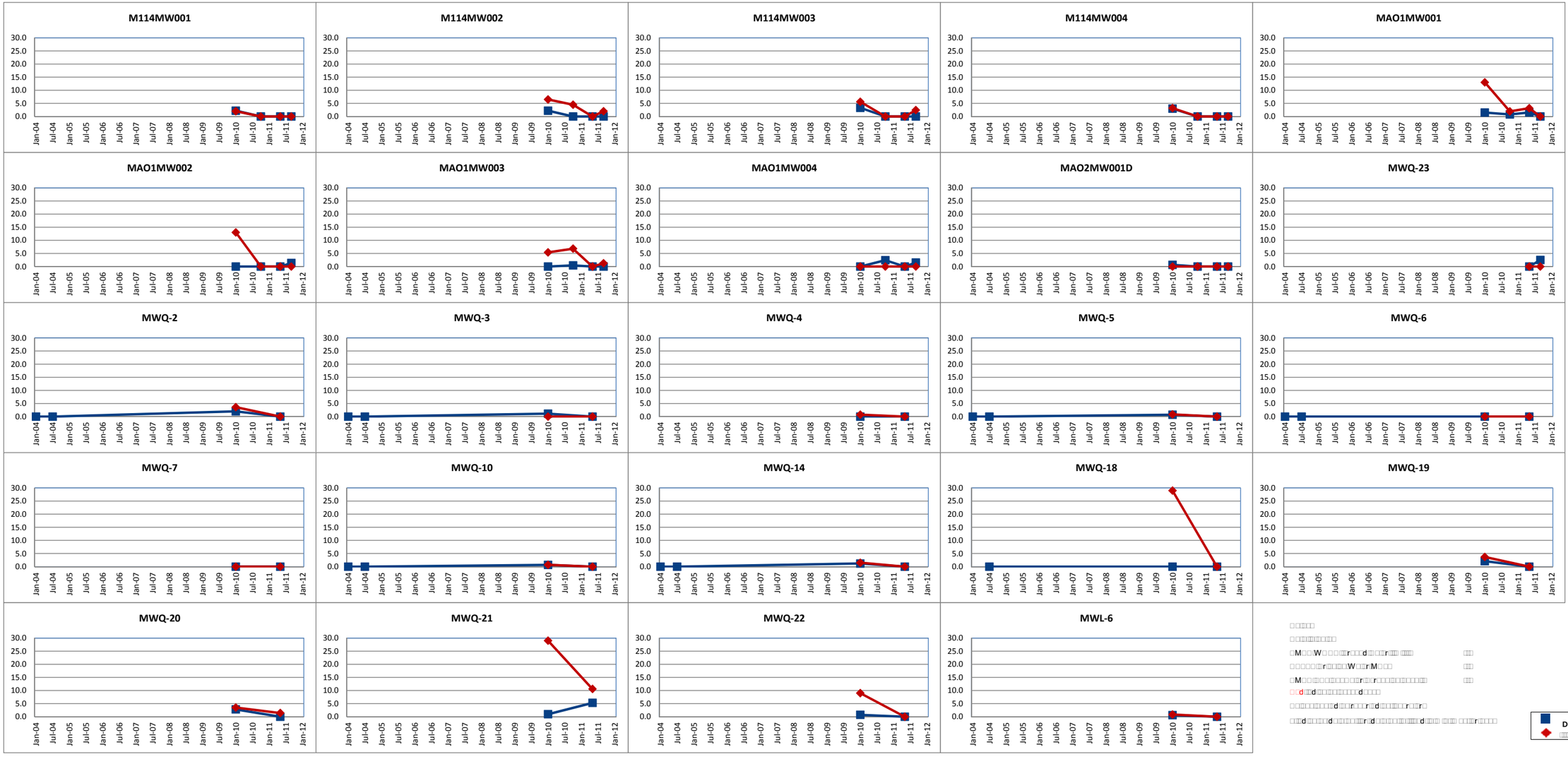

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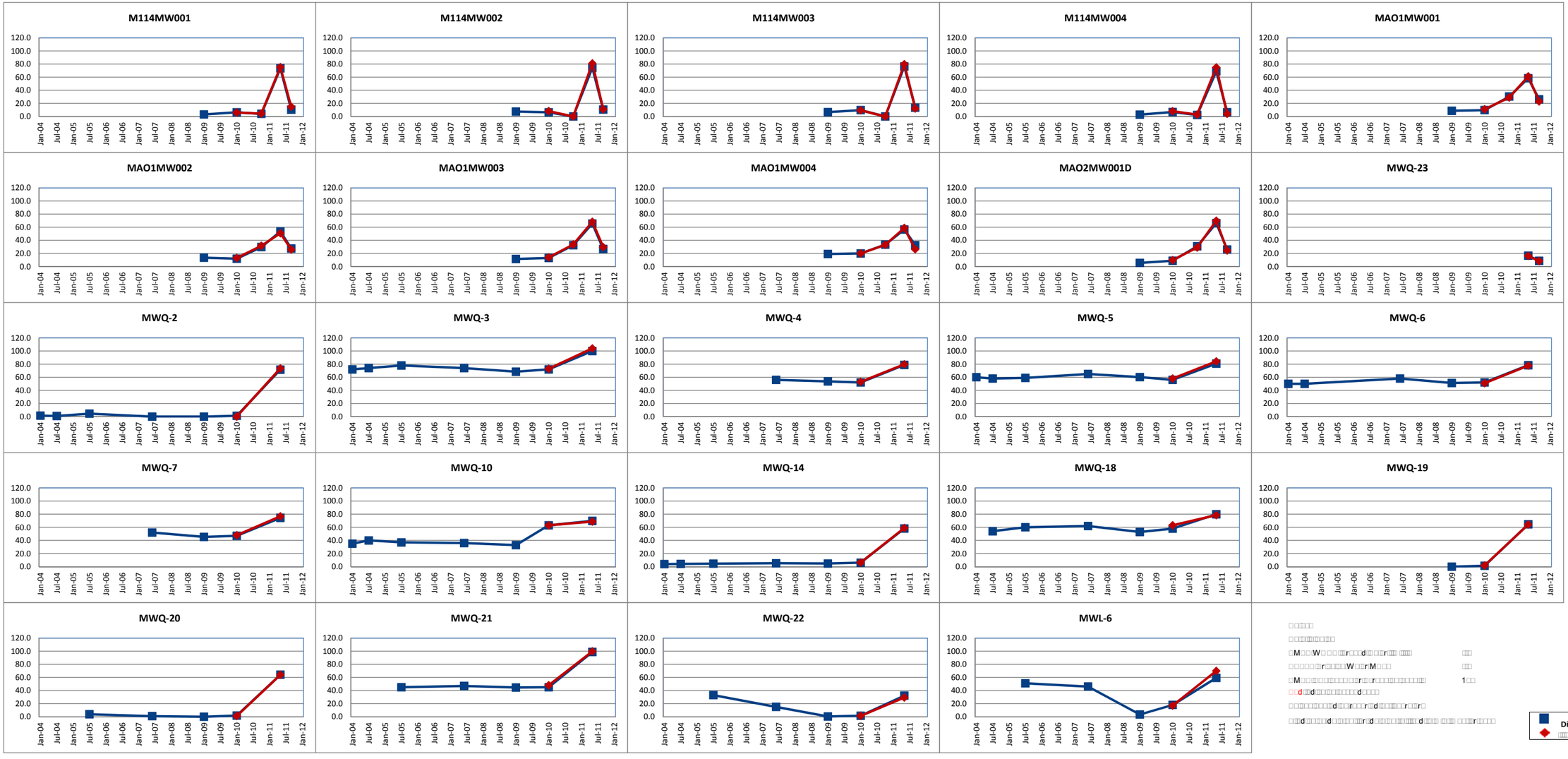

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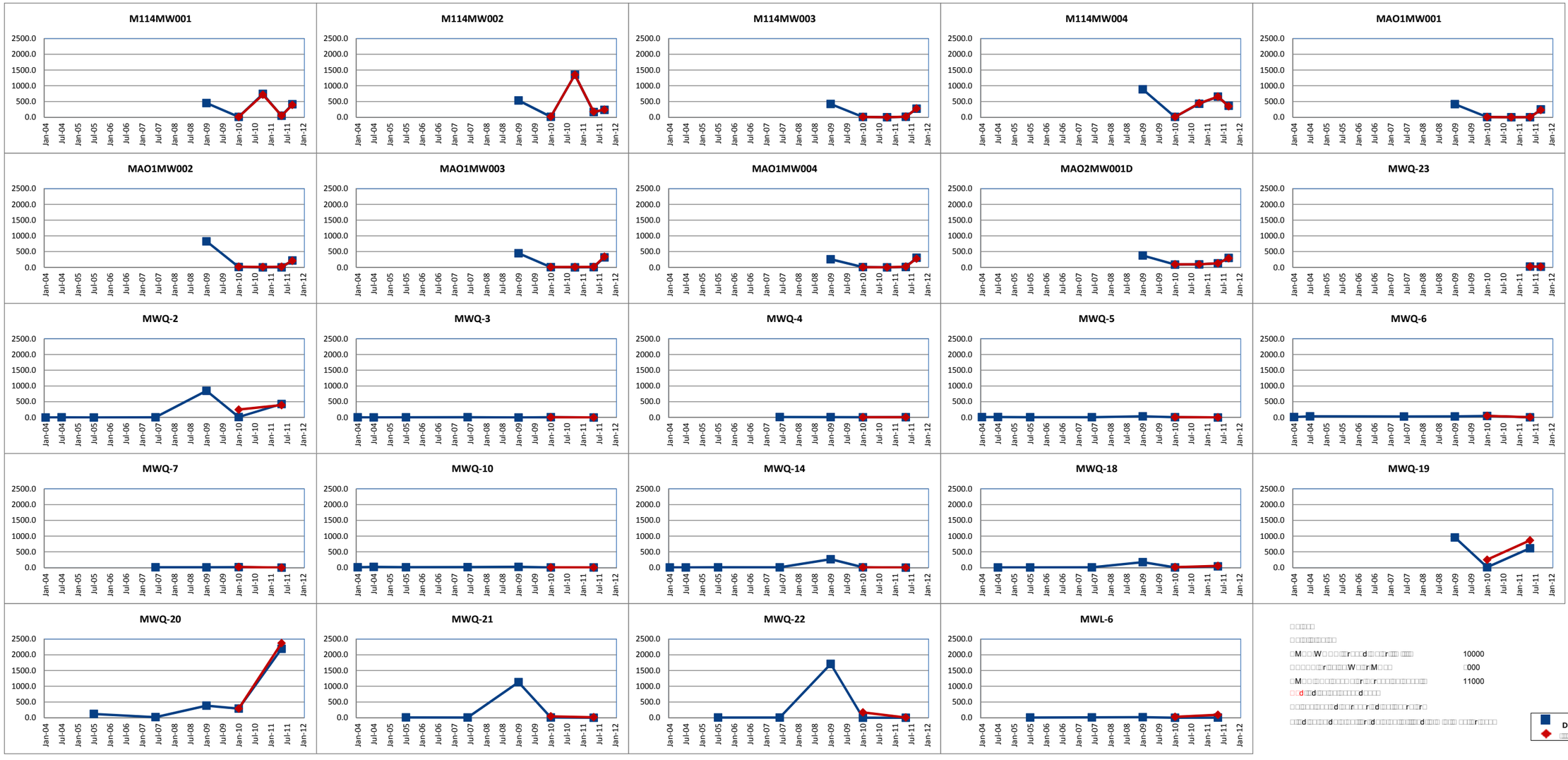

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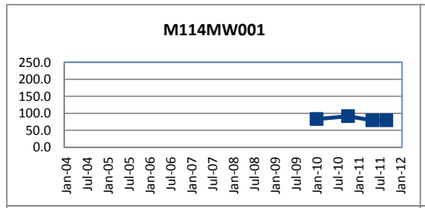
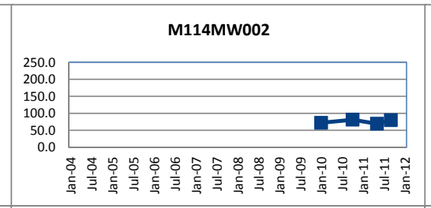
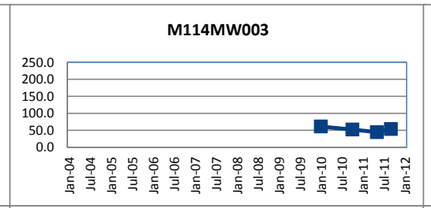
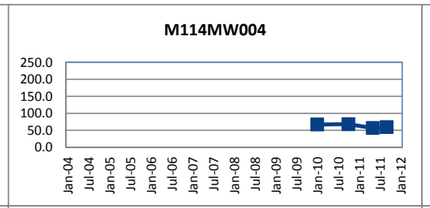
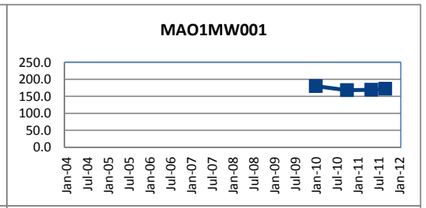
□□□□	Semiannual Network										Annual Network												
	□WM□114				□WM□1□0				□WM□1□1	□□□□r□□□d						□□□□r□□□d	□□□□r□□□d						
	M114MW001	M114MW00□	M114MW00□	M114MW004	M□□1MW001	M□□1MW00□	M□□1MW00□	M□□1MW004	M□□□MW001□	MW□□□	MW□□□	MW□□□	MW□4	MW□□□	MW□□□	MW□7	MW□10	MW□14	MW□1□	MW□1□	MW□□0	MW□□1	MW□□□	MW□□□
□□□04											□□	1□0		170	1□0		□□0	140						
□□04											□7	1□0		170	1□0		1□0	140	170					
□□0□											□□□	1□□□		171□			□0□□	1□□□	1□□□		□□7	□0□□	1□□□	1□1□
□□07											□□	1□0	1□0	170	1□0	1□0	□10	1□0	1□0		□1	□□0	170	1□0
□□0□											□□7	1□7	□□□	□14	□□1	1□□	□□□	□1□	1□7	4□□	□4□	□0□	□□□	□□
□□10	□□	7□	□1	□7	1□0	1□0	1□0	□00	1□0		□□		□00		170	1□0	170	140	170	□70	□□			1□0
□□10	□1□	□1	□□	□7□	1□□	17□	1□0	□0□	171															
M□□11	7□1	□□□	44□	□□□	1□□	171	1□1	1□□	1□0	□7	□□1	14□	177	17□	1□0	147	□1□	1□□	1□1	□0□	□□7	□44	147	1□□
□□□11	7□4	7□□	□□□	□□□	17□	1□0	1□□	□00	14□	□□□														
Min	7□	□□	4□	□7	1□□	171	1□□	1□□	1□0	□7	□□	14□	177	170	1□0	147	170	1□0	1□0	□0□	□1	□0□	100	□□
Max	□□	□1	□1	□□	1□0	1□0	1□1	□0□	171	□□□	□4	1□7	□□□	□14	□□1	1□□	□□□	□1□	1□7	4□□	□□	□0□	170	1□0
Average	□□	7□	□□	□□	17□	177	1□□	1□□	14□	□0	7□	1□□	□1□	17□	177	1□□	□0□	147	171	□7□	□□	□47	1□□	11□

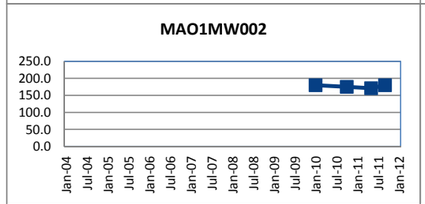


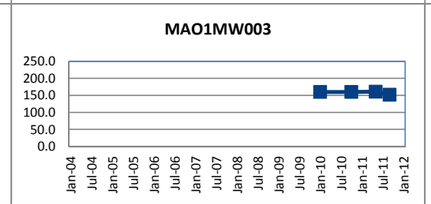


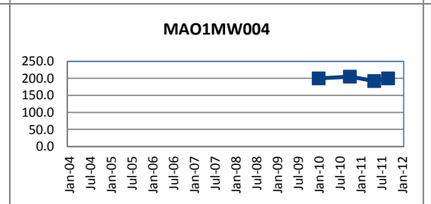


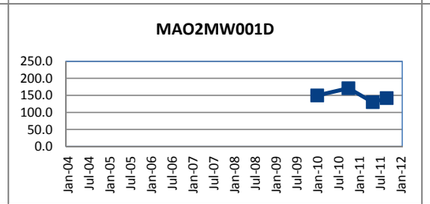


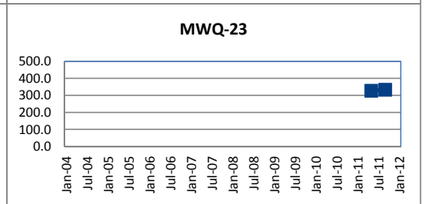


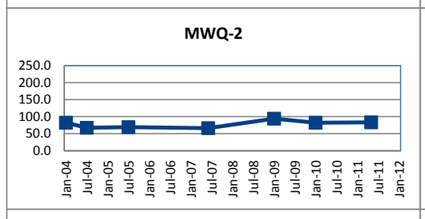


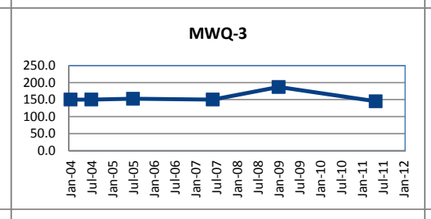


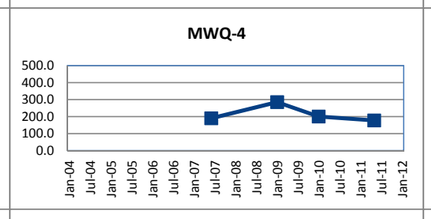


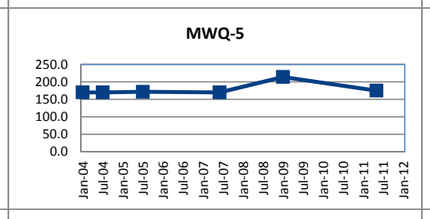


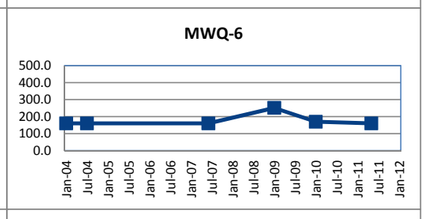


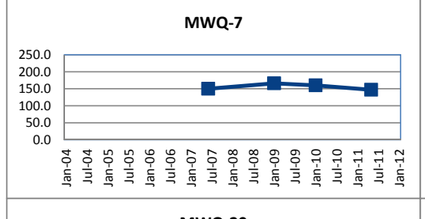


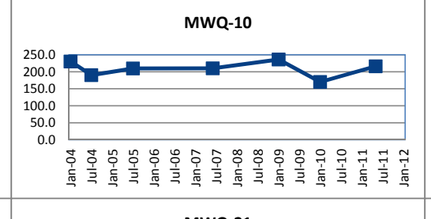


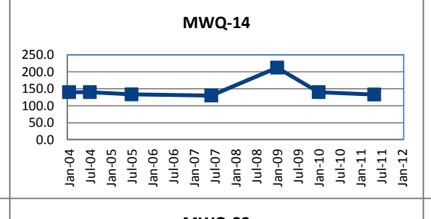


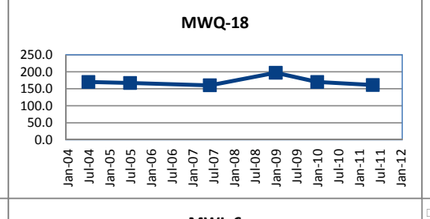


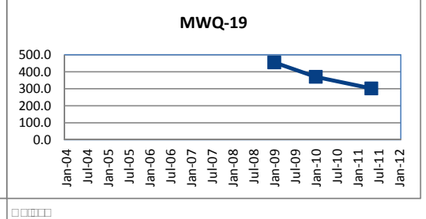


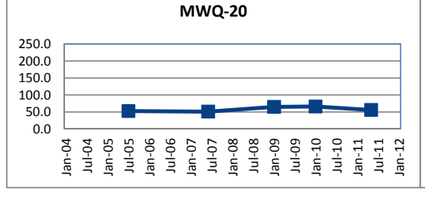


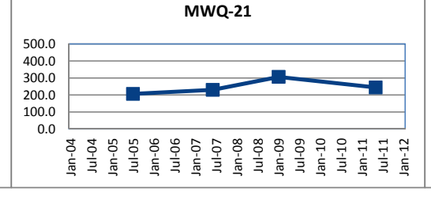


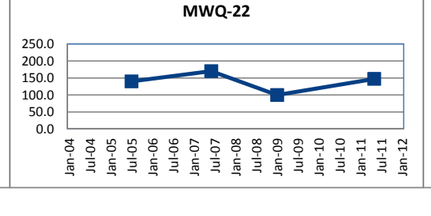


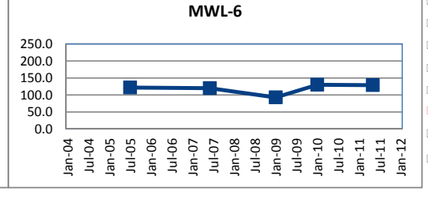












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□□□□	Semiannual Network										Annual Network											
	□WM□□114				□WM□□1□0				□WM□1□1	□□□□r□□□d						□□□□r□□□d	□□□□r□□□d						
	M114MW001	M114MW00□	M114MW00□	M114MW004	M□□1MW001	M□□1MW00□	M□□1MW00□	M□□1MW004	M□□□MW001□	MW□□□	MW□□□	MW□□□	MW□□4	MW□□□	MW□□□	MW□7	MW□10	MW□14	MW□1□	MW□1□	MW□□0	MW□□1	MW□□□	MW□□□
□□□04											3,200	□4		□□	17		1□	470						
□□04											3,300	□□		□□	1□		□□	480	4□					
□□0□											3,500	□□		□4			71	650	41		2,700	1□0	280	100
□□□07											3,400	□□	1□	□4	17	□0	□□	640	□□		5,900	1□0	290	110
□□□0□	3,870	3,340	4,050	3,960	571	449	480	267	2,120															
□□□10	3,000	3,200	4,100	4,100	630	470	500	270	1,500		3,300	□□	□0	1□	1□	□1	□0	630	□□	1,800	5,500	1□0	770	100
□□□10	3,290	3,180	4,280	3,530	581	461	506	□□□	1,410															
M□□11	3,280	3,660	4,550	4,180	651	473	537	269	2,190	□□□	3,310	□□□	17□	□1□	□14	□□□	□□□	715	40□	2,050	6,010	1□1	342	107
□□□11	3,060	3,130	3,920	3,970	525	431	477	251	1,640	□1□														
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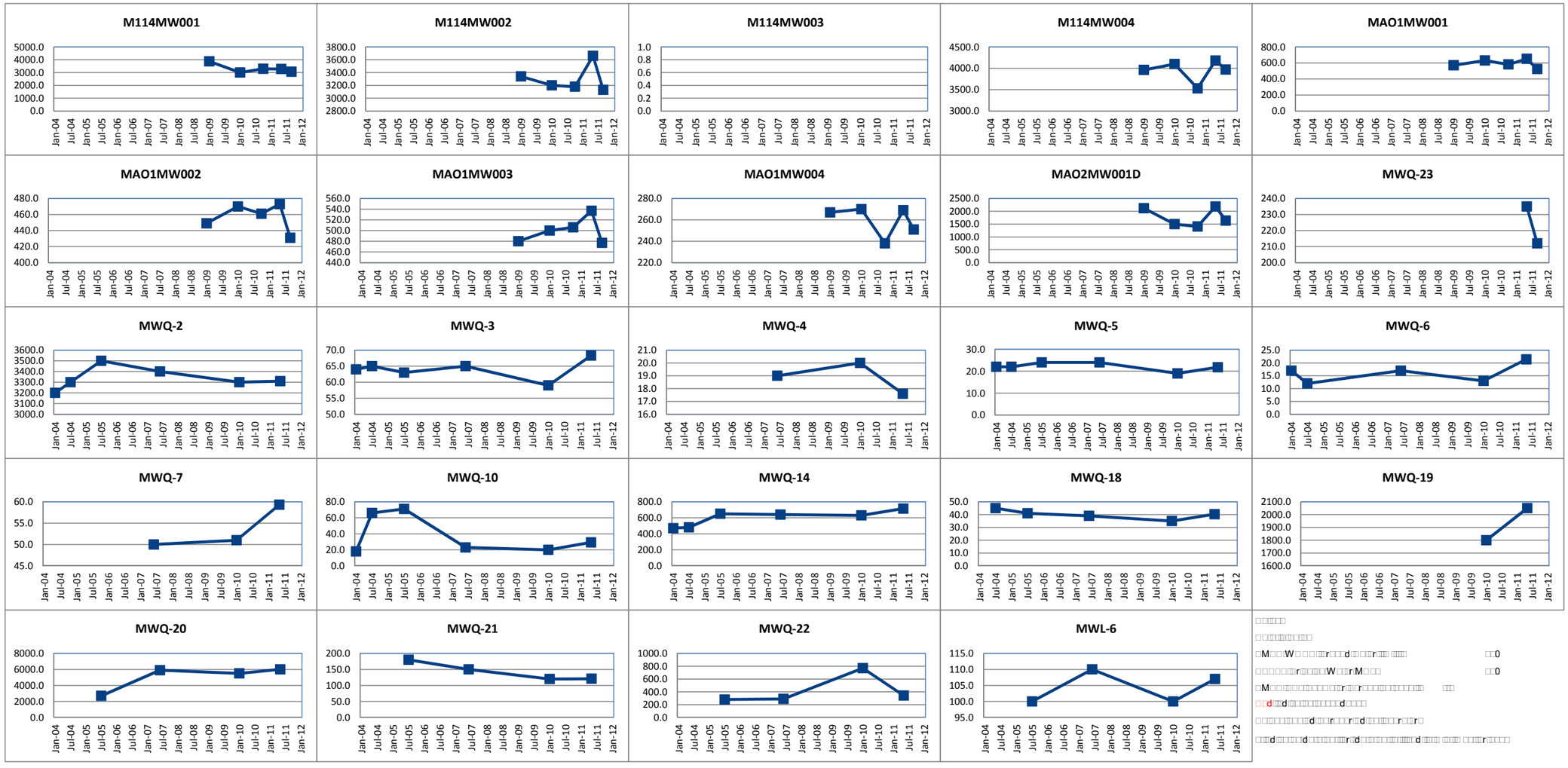
Average	□□00	□□0□	41□0	□□4□	□□□	4□7	□00	□□□	177□	□□4	□□□□	□4	1□	□□	1□	□□	□□	□□□	40	1□□□	□0□□	14□	4□1	104



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	M114MW001	M114MW00□	M114MW00□	M114MW004	M□□1MW001	M□□1MW00□	M□□1MW00□	M□□1MW004	M□□□MW001□	MW□□□	MW□□□	MW□□□	MW□□4	MW□□□	MW□□□	MW□□7	MW□□10	MW□□14	MW□□1□	MW□□1□	MW□□□0	MW□□□1	MW□□□□	MW□□□
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□□□10	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□														
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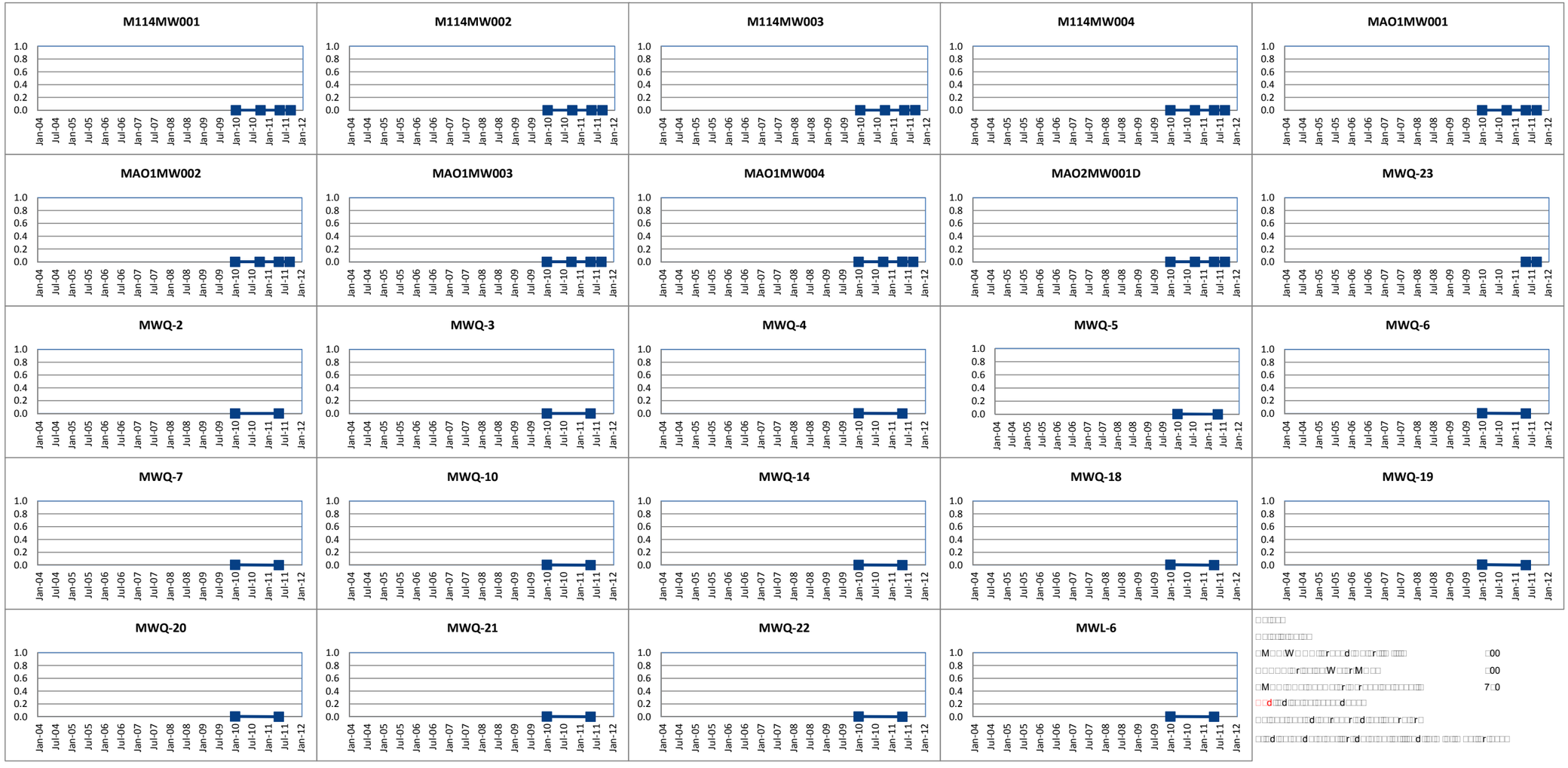
□□□11	□□□□	□□□□	0□000□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□	□□□□														
Min	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000
Max	0□000	0□000	0□001	0□000	0□000	0□000	0□000	0□001	0□000	0□000	0□000	0□000	0□00□	0□004	0□004	0□004	0□00□	0□00□	0□00□	0□00□	0□007	0□004	0□00□	0□00□
Average	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□000	0□001	0□00□	0□00□	0□00□	0□00□	0□001	0□00□	0□00□	0□00□	0□00□	0□001	0□001



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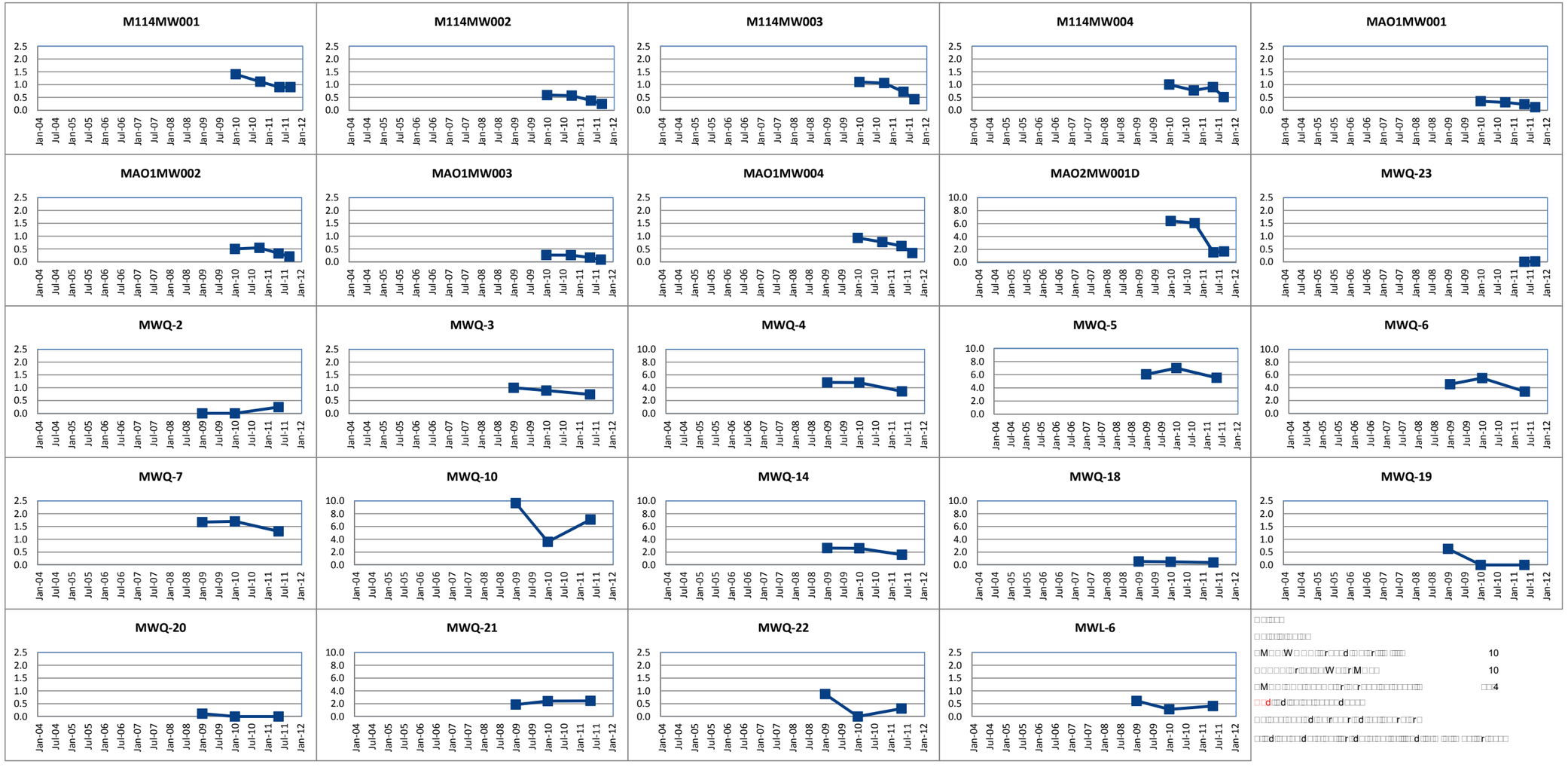
Min	0.□0	0.□□	0.4□	0.□1	0.1□	0.□1	0.0□	0.□4	1.□□	0.00	0.00	0.74	□4□	□.□□	□.□□	1.□1	□.□0	1.□□	0.□7	0.00	0.00	1.□□	0.00	0.□□
Max	1.40	0.□□	1.10	1.00	0.□□	0.□□	0.□□	0.□□	□.40	0.01	0.□4	1.00	4.□□	7.00	□.□0	1.70	□.□□	□.□□	0.□□	0.□□	0.11	□44	0.□7	0.□1
Average	1.0□	0.44	0.□□	0.□0	0.□□	0.□□	0.1□	0.□□	□.□4	0.01	0.0□	0.□□	4.□□	□.□0	4.4□	1.□□	□.77	□.□7	0.47	0.□1	0.04	□.□□	0.□□	0.4□



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Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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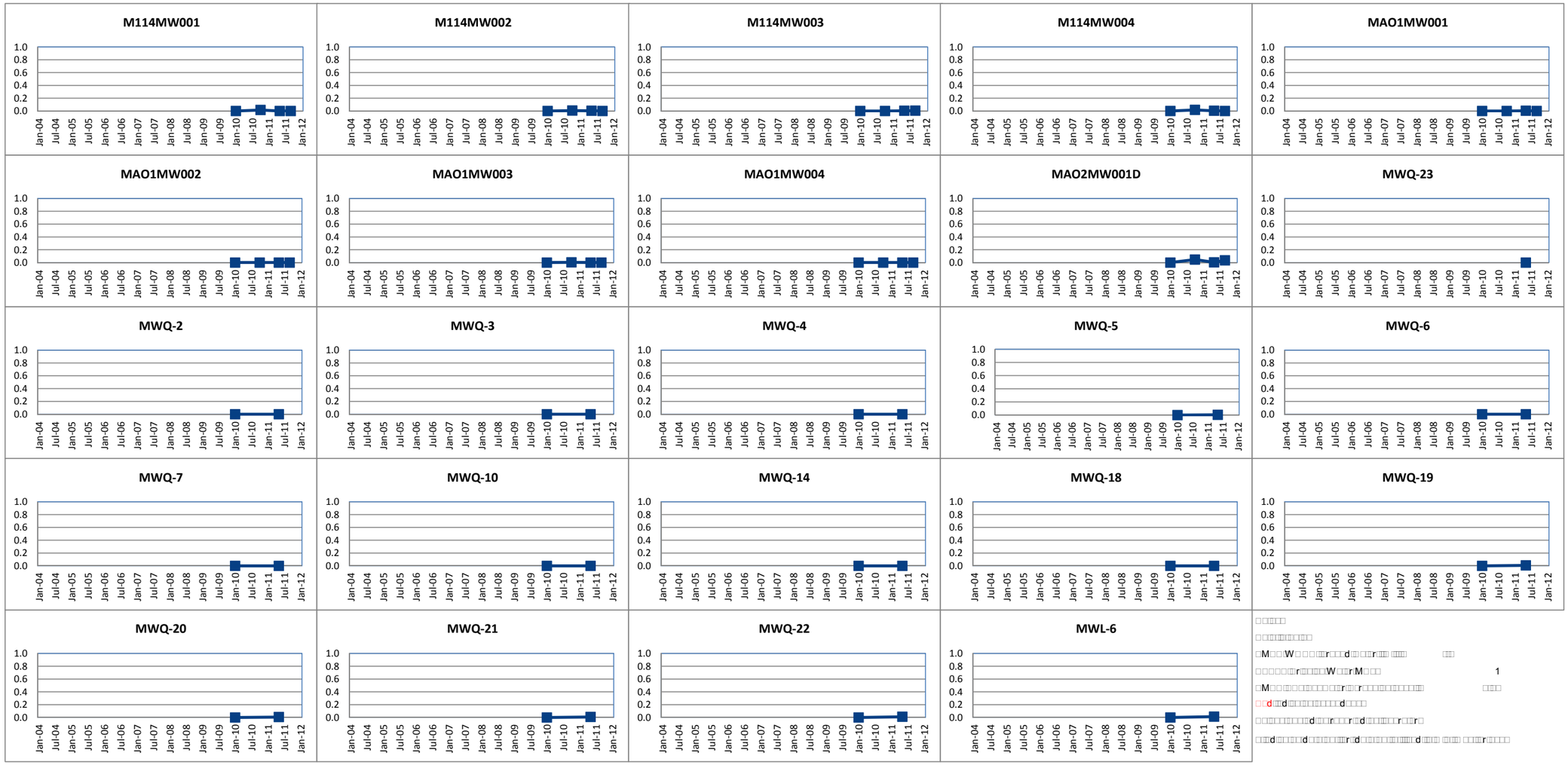

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Max	□4	□7	□□	□□	4:4	□□	□□	□□	□□	□7	□1	1□	4:1	□0	□□	□□	□□:0	1□:□	0:□	0:0	0:□		7□□		□1		□□		□□		4:0		□□		0□		4□□		10□□		0□□		0:□□		□□		1□		11:0	
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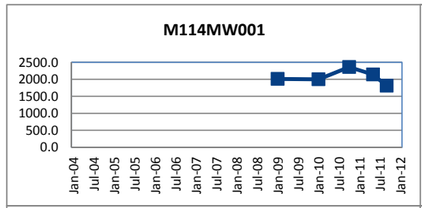
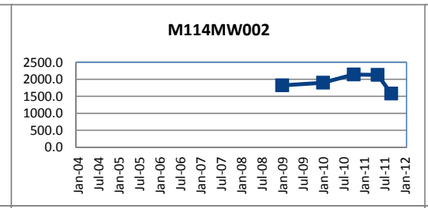
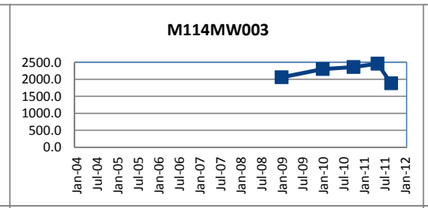
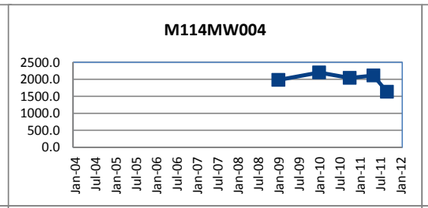
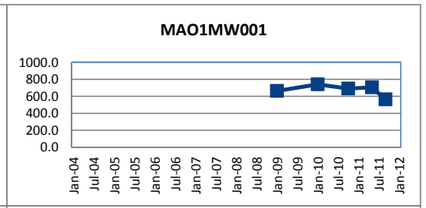
Max	□□□0	□140	□4□0	□□00	740	□□□	□77	□7□	□1□0	4□□	1□00	1□0	□□	110	□□	1□0	□□	□□4	110	1□□0	1□00	7□0	4□0	□1□	
Average	□0□4	1□14	□□1□	1□□□	□7□	□□□	□□□	□□0	1□7□	410	1□4□	14□	□□	□□	□0	1□□	□□	□□□	110	1□1□	1440	□17	□□□	1□□	

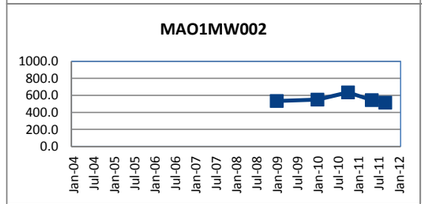


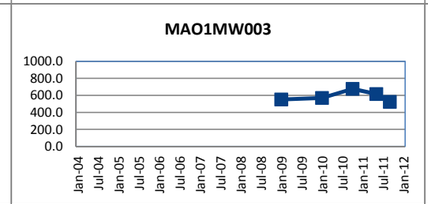


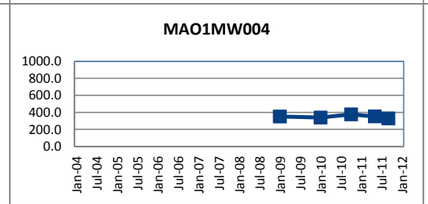


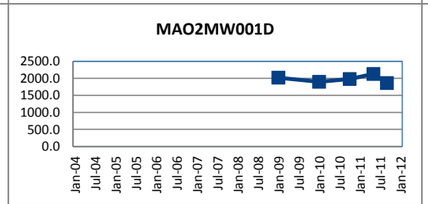


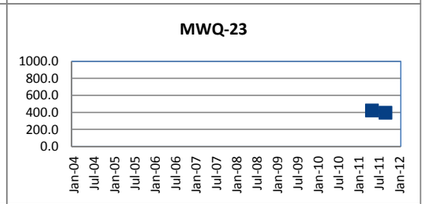


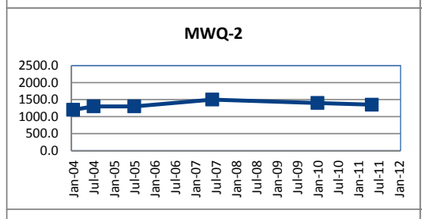


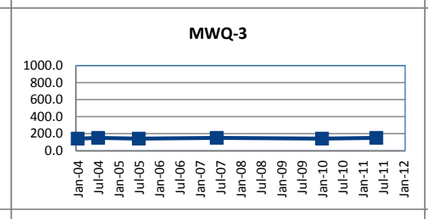


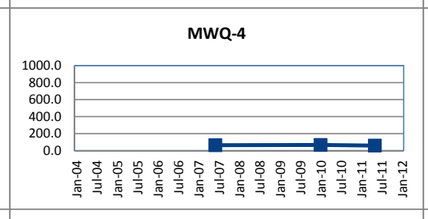


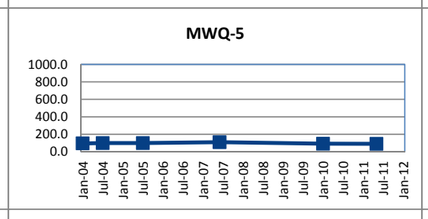


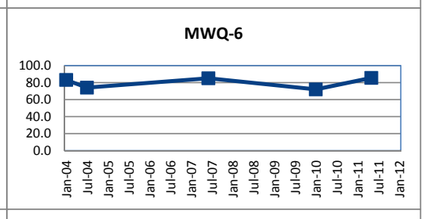


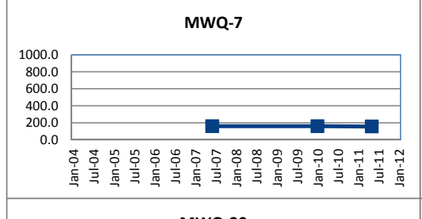


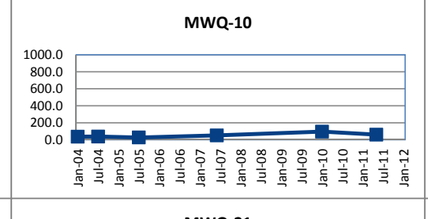


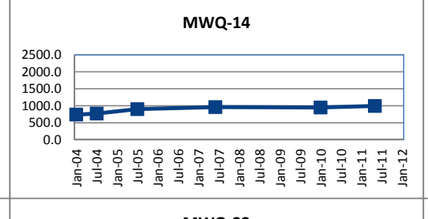


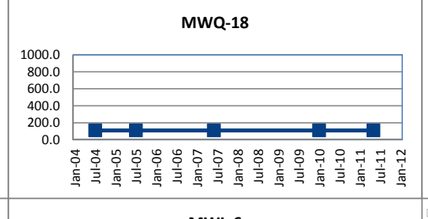


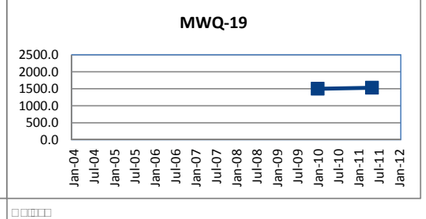


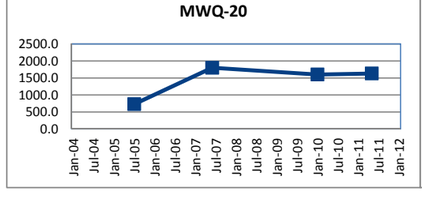


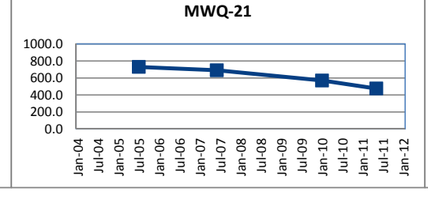


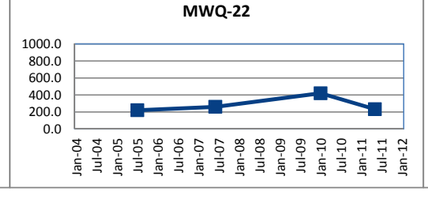


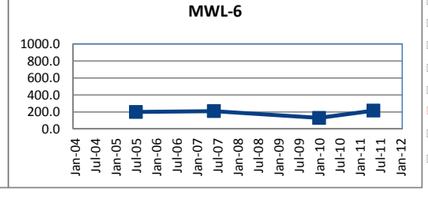












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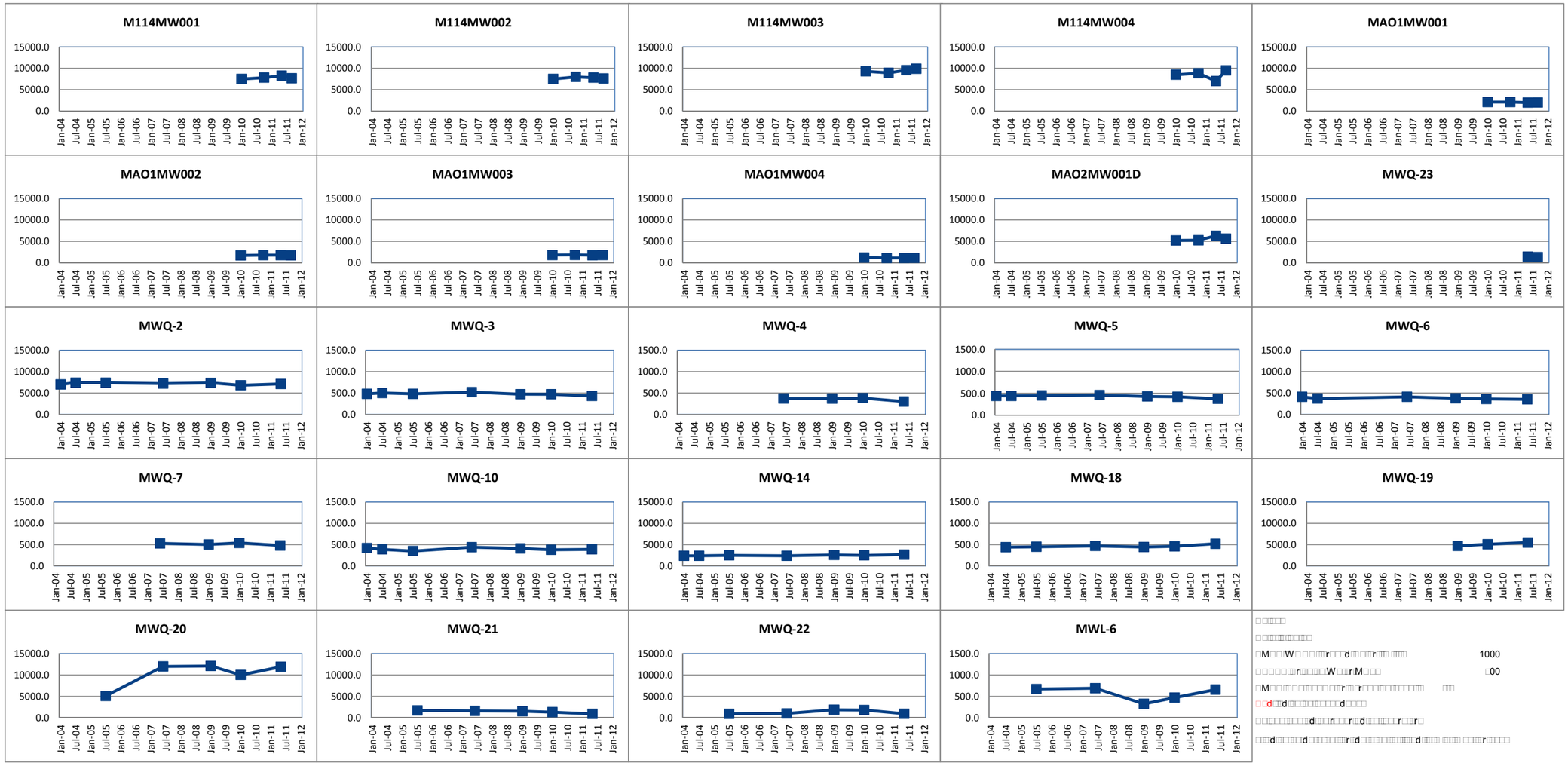

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APPENDIX D

Analytical Data (On attached CD)

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GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 06/06/2011

GCAL Report 211050426

Deliver To	TRINITY Analysis & Development Corp. 90 NW Beal Pkwy Suite A2 Fort Walton Beach, FL 32548 850-243-0072
Attn	Jonathan Kramer

Project Melrose AFB Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050426

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C (Dissolved and Total) analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument. The dilutions are reflected in elevated detection limits.

In the SW-846 6010C analysis for prep batch 455675, the MS/MSD and post-digestion spike recoveries recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 455676, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Barium was detected at a concentration > ½ the PQL in the method blank. The concentration is less than 1/10 the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium and Sodium on ICP6, 05/25/11 at 1921. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456691, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method

blank was analyzed for Barium on ICP6, 05/27/11 at 1406 and for Sodium on ICP6, 05/31/11 at 1254. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1505. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456692, the MS/MSD and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 456846, the MS recovery is outside the control limits for Sodium. The MSD and LCS recoveries are acceptable. A post-digestion spike was performed on the QC sample for this batch with a recovery of 110%. The MS/MSD and post-digestion spike recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Thallium on ICP6, 05/31/11 at 1448. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1637. Only one schedule can be reported on a form 3 for a method blank. Manganese is flagged E, estimated on the serial dilution due to the fact that the % difference between the original result and the serial dilution result is greater than 10.

In the SW-846 6010C analysis for prep batch 456848, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Beryllium and Thallium on ICP6, 05/31/11 at 1555. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/26/11 at 1758. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 7470A analysis for prep batch 457095, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010C analysis, the recovery for the low level check standard (CRDL) is outside 80-120% for Zinc (79%). This is associated with sample 21105190401 (MWL6). This sample was analyzed twice. The method blank concentration exceeded ½ PQL and was greater than 10% of the concentration detected in the sample in the first run. All other batch and instrument QC was acceptable. The only issue in the second run was the low recovery for the CRDL standard. The sample result for Zinc is comparable in both runs with a slightly higher result in the second run. The client was contacted and allowed the data to be reported with the CRDL exceedance.

In the SW-846 6010C analysis, Thallium was detected at a concentration greater than the LOD in one CCB (ICP6, 05/10/11, 1130). Thallium was not detected in the associated samples.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (ICP6, 05/24/11; 1431, 1608, 1732) is greater than the LOD but less than the PQL. The

concentrations are less than 1/10 the concentration detected in the associated samples. Some samples required reanalysis.

CONVENTIONALS

In the EPA 300.0 analysis, all samples except 21105042622 (EB2 had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 300.0 analysis for analytical batch 456395, the MS/MSD was analyzed on sample 21105042615 (MWQ-18) rather than sample 21105042616 (MWQ14) as requested on the COC.

In the EPA 353.2 analysis, samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), 21105042606 (MWQ-7), 21105042607 (MWQ-10), 21105042608 (MWQ-10-MS), 21105042609 (MWQ-10-MSD), 21105042613 (MWQ21), 21105042616 (MWQ14), 21105042617 (MWQ14 MS), and 21105042618 (MWQ14 MSD) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SW-846 9012A analysis for prep batch 455725, the MS/MSD recoveries are outside the control limits for Total Cyanide. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 9012A analysis for analytical batch 456904, the MSD recovery is outside the control limits for Total Cyanide. The MSD and LCS recoveries are acceptable.

Sample 21105042601 (MWQ-3) was received after expiration of the 24-hour holding time for Chromium VI. Samples 21105042602 (MWQ-4), 21105042603 (MWQ-5), 21105042604 (MWQ-5-DUP), 21105042605 (MWQ-6), and 21105042606 (MWQ-7) were received within the 24-hour holding time but were not processed through receiving prior to expiration of the holding time. The client was contacted and authorized the laboratory to proceed with the analysis.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105042607 (MWQ-10) and 21105042613 (MWQ21) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

Sample 21105042615 (MWQ-18) was filtered and preserved at the laboratory for dissolved metals.

See the sub-contract lab report narrative for the Perchlorate analysis.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 211050426

THIS REPORT CONTAINS 652 PAGES.

Sample Test Summary Report: 211050426

Lab Sample ID	Cust. Sample ID	Matrix	Proc. Desc.
21105042601	MWQ-3	W	SM 2540C TDS
21105042601	MWQ-3	W	SM 2320B Alkalinity Water
21105042601	MWQ-3	W	EPA 300.0 Inorganic Anions
21105042601	MWQ-3	W	SW-846 6010C
21105042601	MWQ-3	W	SW-846 6010C Dissolved
21105042601	MWQ-3	W	SW-846 6010C Dissolved Prep
21105042601	MWQ-3	W	SW-846 6010C Prep Water
21105042601	MWQ-3	W	SW-846 7196A Chromium VI
21105042601	MWQ-3	W	SW-846 7470A Water
21105042601	MWQ-3	W	SW-846 7470A Prep Water
21105042601	MWQ-3	W	SW-846 7470A Dissolved Prep
21105042601	MWQ-3	W	SW-846 7470A Dissolved
21105042601	MWQ-3	W	SW-846 9012A Cyanide Water
21105042601	MWQ-3	W	SW-846 9012A Cyanide Prep Water
21105042601	MWQ-3	W	EPA 353.2 Nitrite
21105042601	MWQ-3	W	EPA 353.2 Nitrate
21105042601	MWQ-3	W	Ship work pending results
21105042602	MWQ-4	W	SM 2540C TDS
21105042602	MWQ-4	W	SM 2320B Alkalinity Water
21105042602	MWQ-4	W	EPA 300.0 Inorganic Anions
21105042602	MWQ-4	W	SW-846 6010C
21105042602	MWQ-4	W	SW-846 6010C Dissolved
21105042602	MWQ-4	W	SW-846 6010C Dissolved Prep
21105042602	MWQ-4	W	SW-846 6010C Prep Water
21105042602	MWQ-4	W	SW-846 7196A Chromium VI
21105042602	MWQ-4	W	SW-846 7470A Water
21105042602	MWQ-4	W	SW-846 7470A Prep Water
21105042602	MWQ-4	W	SW-846 7470A Dissolved Prep
21105042602	MWQ-4	W	SW-846 7470A Dissolved
21105042602	MWQ-4	W	SW-846 9012A Cyanide Water
21105042602	MWQ-4	W	SW-846 9012A Cyanide Prep Water
21105042602	MWQ-4	W	EPA 353.2 Nitrite
21105042602	MWQ-4	W	EPA 353.2 Nitrate
21105042602	MWQ-4	W	Ship work pending results
21105042603	MWQ-5	W	SM 2540C TDS
21105042603	MWQ-5	W	SM 2320B Alkalinity Water
21105042603	MWQ-5	W	EPA 300.0 Inorganic Anions
21105042603	MWQ-5	W	SW-846 6010C
21105042603	MWQ-5	W	SW-846 6010C Dissolved
21105042603	MWQ-5	W	SW-846 6010C Dissolved Prep
21105042603	MWQ-5	W	SW-846 6010C Prep Water
21105042603	MWQ-5	W	SW-846 7196A Chromium VI
21105042603	MWQ-5	W	SW-846 7470A Water
21105042603	MWQ-5	W	SW-846 7470A Prep Water
21105042603	MWQ-5	W	SW-846 7470A Dissolved Prep
21105042603	MWQ-5	W	SW-846 7470A Dissolved
21105042603	MWQ-5	W	SW-846 9012A Cyanide Water
21105042603	MWQ-5	W	SW-846 9012A Cyanide Prep Water

21105042603	MWQ-5	W	EPA 353.2 Nitrite
21105042603	MWQ-5	W	EPA 353.2 Nitrate
21105042603	MWQ-5	W	Ship work pending results
21105042604	MWQ-5-DUP	W	SM 2540C TDS
21105042604	MWQ-5-DUP	W	SM 2320B Alkalinity Water
21105042604	MWQ-5-DUP	W	EPA 300.0 Inorganic Anions
21105042604	MWQ-5-DUP	W	SW-846 6010C
21105042604	MWQ-5-DUP	W	SW-846 6010C Dissolved
21105042604	MWQ-5-DUP	W	SW-846 6010C Dissolved Prep
21105042604	MWQ-5-DUP	W	SW-846 6010C Prep Water
21105042604	MWQ-5-DUP	W	SW-846 7196A Chromium VI
21105042604	MWQ-5-DUP	W	SW-846 7470A Water
21105042604	MWQ-5-DUP	W	SW-846 7470A Prep Water
21105042604	MWQ-5-DUP	W	SW-846 7470A Dissolved Prep
21105042604	MWQ-5-DUP	W	SW-846 7470A Dissolved
21105042604	MWQ-5-DUP	W	SW-846 9012A Cyanide Water
21105042604	MWQ-5-DUP	W	SW-846 9012A Cyanide Prep Water
21105042604	MWQ-5-DUP	W	EPA 353.2 Nitrite
21105042604	MWQ-5-DUP	W	EPA 353.2 Nitrate
21105042604	MWQ-5-DUP	W	Ship work pending results
21105042605	MWQ-6	W	SM 2540C TDS
21105042605	MWQ-6	W	SM 2320B Alkalinity Water
21105042605	MWQ-6	W	EPA 300.0 Inorganic Anions
21105042605	MWQ-6	W	SW-846 6010C
21105042605	MWQ-6	W	SW-846 6010C Dissolved
21105042605	MWQ-6	W	SW-846 6010C Dissolved Prep
21105042605	MWQ-6	W	SW-846 6010C Prep Water
21105042605	MWQ-6	W	SW-846 7196A Chromium VI
21105042605	MWQ-6	W	SW-846 7470A Water
21105042605	MWQ-6	W	SW-846 7470A Prep Water
21105042605	MWQ-6	W	SW-846 7470A Dissolved Prep
21105042605	MWQ-6	W	SW-846 7470A Dissolved
21105042605	MWQ-6	W	SW-846 9012A Cyanide Water
21105042605	MWQ-6	W	SW-846 9012A Cyanide Prep Water
21105042605	MWQ-6	W	EPA 353.2 Nitrite
21105042605	MWQ-6	W	EPA 353.2 Nitrate
21105042605	MWQ-6	W	Ship work pending results
21105042606	MWQ-7	W	SM 2540C TDS
21105042606	MWQ-7	W	SM 2320B Alkalinity Water
21105042606	MWQ-7	W	EPA 300.0 Inorganic Anions
21105042606	MWQ-7	W	SW-846 6010C
21105042606	MWQ-7	W	SW-846 6010C Dissolved
21105042606	MWQ-7	W	SW-846 6010C Dissolved Prep
21105042606	MWQ-7	W	SW-846 6010C Prep Water
21105042606	MWQ-7	W	SW-846 7196A Chromium VI
21105042606	MWQ-7	W	SW-846 7470A Water
21105042606	MWQ-7	W	SW-846 7470A Prep Water
21105042606	MWQ-7	W	SW-846 7470A Dissolved Prep
21105042606	MWQ-7	W	SW-846 7470A Dissolved
21105042606	MWQ-7	W	SW-846 9012A Cyanide Water
21105042606	MWQ-7	W	SW-846 9012A Cyanide Prep Water
21105042606	MWQ-7	W	EPA 353.2 Nitrite

21105042606	MWQ-7	W	EPA 353.2 Nitrate
21105042606	MWQ-7	W	Ship work pending results
21105042607	MWQ-10	W	SM 2540C TDS
21105042607	MWQ-10	W	SM 2320B Alkalinity Water
21105042607	MWQ-10	W	EPA 300.0 Inorganic Anions
21105042607	MWQ-10	W	SW-846 6010C
21105042607	MWQ-10	W	SW-846 6010C Dissolved
21105042607	MWQ-10	W	SW-846 6010C Dissolved Prep
21105042607	MWQ-10	W	SW-846 6010C Prep Water
21105042607	MWQ-10	W	SW-846 7196A Chromium VI
21105042607	MWQ-10	W	SW-846 7470A Water
21105042607	MWQ-10	W	SW-846 7470A Prep Water
21105042607	MWQ-10	W	SW-846 7470A Dissolved Prep
21105042607	MWQ-10	W	SW-846 7470A Dissolved
21105042607	MWQ-10	W	SW-846 9012A Cyanide Water
21105042607	MWQ-10	W	SW-846 9012A Cyanide Prep Water
21105042607	MWQ-10	W	EPA 353.2 Nitrite
21105042607	MWQ-10	W	EPA 353.2 Nitrate
21105042607	MWQ-10	W	Ship work pending results
21105042608	MWQ-10-MS	W	EPA 300.0 Inorganic Anions
21105042608	MWQ-10-MS	W	SW-846 6010C
21105042608	MWQ-10-MS	W	SW-846 6010C Dissolved
21105042608	MWQ-10-MS	W	SW-846 6010C Dissolved Prep
21105042608	MWQ-10-MS	W	SW-846 6010C Prep Water
21105042608	MWQ-10-MS	W	SW-846 7196A Chromium VI
21105042608	MWQ-10-MS	W	SW-846 7470A Water
21105042608	MWQ-10-MS	W	SW-846 7470A Prep Water
21105042608	MWQ-10-MS	W	SW-846 7470A Dissolved Prep
21105042608	MWQ-10-MS	W	SW-846 7470A Dissolved
21105042608	MWQ-10-MS	W	SW-846 9012A Cyanide Water
21105042608	MWQ-10-MS	W	SW-846 9012A Cyanide Prep Water
21105042608	MWQ-10-MS	W	EPA 353.2 Nitrite
21105042608	MWQ-10-MS	W	EPA 353.2 Nitrate
21105042608	MWQ-10-MS	W	Ship work pending results
21105042609	MWQ-10-MSD	W	EPA 300.0 Inorganic Anions
21105042609	MWQ-10-MSD	W	SW-846 6010C
21105042609	MWQ-10-MSD	W	SW-846 6010C Dissolved
21105042609	MWQ-10-MSD	W	SW-846 6010C Dissolved Prep
21105042609	MWQ-10-MSD	W	SW-846 6010C Prep Water
21105042609	MWQ-10-MSD	W	SW-846 7196A Chromium VI
21105042609	MWQ-10-MSD	W	SW-846 7470A Water
21105042609	MWQ-10-MSD	W	SW-846 7470A Prep Water
21105042609	MWQ-10-MSD	W	SW-846 7470A Dissolved Prep
21105042609	MWQ-10-MSD	W	SW-846 7470A Dissolved
21105042609	MWQ-10-MSD	W	SW-846 9012A Cyanide Water
21105042609	MWQ-10-MSD	W	SW-846 9012A Cyanide Prep Water
21105042609	MWQ-10-MSD	W	EPA 353.2 Nitrite
21105042609	MWQ-10-MSD	W	EPA 353.2 Nitrate
21105042609	MWQ-10-MSD	W	Ship work pending results
21105042610	MWQ-10-DUP	W	SM 2540C TDS
21105042610	MWQ-10-DUP	W	SM 2320B Alkalinity Water
21105042611	MWQ-2	W	SM 2540C TDS

21105042611	MWQ-2	W	SM 2320B Alkalinity Water
21105042611	MWQ-2	W	EPA 300.0 Inorganic Anions
21105042611	MWQ-2	W	SW-846 6010C
21105042611	MWQ-2	W	SW-846 6010C Dissolved
21105042611	MWQ-2	W	SW-846 6010C Dissolved Prep
21105042611	MWQ-2	W	SW-846 6010C Prep Water
21105042611	MWQ-2	W	SW-846 7196A Chromium VI
21105042611	MWQ-2	W	SW-846 7470A Water
21105042611	MWQ-2	W	SW-846 7470A Prep Water
21105042611	MWQ-2	W	SW-846 7470A Dissolved Prep
21105042611	MWQ-2	W	SW-846 7470A Dissolved
21105042611	MWQ-2	W	SW-846 9012A Cyanide Water
21105042611	MWQ-2	W	SW-846 9012A Cyanide Prep Water
21105042611	MWQ-2	W	EPA 353.2 Nitrite
21105042611	MWQ-2	W	EPA 353.2 Nitrate
21105042611	MWQ-2	W	Ship work pending results
21105042612	MWQ-22	W	SM 2540C TDS
21105042612	MWQ-22	W	SM 2320B Alkalinity Water
21105042612	MWQ-22	W	EPA 300.0 Inorganic Anions
21105042612	MWQ-22	W	SW-846 6010C
21105042612	MWQ-22	W	SW-846 6010C Dissolved
21105042612	MWQ-22	W	SW-846 6010C Dissolved Prep
21105042612	MWQ-22	W	SW-846 6010C Prep Water
21105042612	MWQ-22	W	SW-846 7196A Chromium VI
21105042612	MWQ-22	W	SW-846 7470A Water
21105042612	MWQ-22	W	SW-846 7470A Prep Water
21105042612	MWQ-22	W	SW-846 7470A Dissolved Prep
21105042612	MWQ-22	W	SW-846 7470A Dissolved
21105042612	MWQ-22	W	SW-846 9012A Cyanide Water
21105042612	MWQ-22	W	SW-846 9012A Cyanide Prep Water
21105042612	MWQ-22	W	EPA 353.2 Nitrite
21105042612	MWQ-22	W	EPA 353.2 Nitrate
21105042612	MWQ-22	W	Ship work pending results
21105042613	MWQ-21	W	SM 2540C TDS
21105042613	MWQ-21	W	SM 2320B Alkalinity Water
21105042613	MWQ-21	W	EPA 300.0 Inorganic Anions
21105042613	MWQ-21	W	SW-846 6010C
21105042613	MWQ-21	W	SW-846 6010C Dissolved
21105042613	MWQ-21	W	SW-846 6010C Dissolved Prep
21105042613	MWQ-21	W	SW-846 6010C Prep Water
21105042613	MWQ-21	W	SW-846 7196A Chromium VI
21105042613	MWQ-21	W	SW-846 7470A Water
21105042613	MWQ-21	W	SW-846 7470A Prep Water
21105042613	MWQ-21	W	SW-846 7470A Dissolved Prep
21105042613	MWQ-21	W	SW-846 7470A Dissolved
21105042613	MWQ-21	W	SW-846 9012A Cyanide Water
21105042613	MWQ-21	W	SW-846 9012A Cyanide Prep Water
21105042613	MWQ-21	W	EPA 353.2 Nitrite
21105042613	MWQ-21	W	EPA 353.2 Nitrate
21105042613	MWQ-21	W	Ship work pending results
21105042614	MWQ-19	W	SM 2540C TDS
21105042614	MWQ-19	W	SM 2320B Alkalinity Water

21105042614	MWQ-19	W	EPA 300.0 Inorganic Anions
21105042614	MWQ-19	W	SW-846 6010C
21105042614	MWQ-19	W	SW-846 6010C Dissolved
21105042614	MWQ-19	W	SW-846 6010C Dissolved Prep
21105042614	MWQ-19	W	SW-846 6010C Prep Water
21105042614	MWQ-19	W	SW-846 7196A Chromium VI
21105042614	MWQ-19	W	SW-846 7470A Water
21105042614	MWQ-19	W	SW-846 7470A Prep Water
21105042614	MWQ-19	W	SW-846 7470A Dissolved Prep
21105042614	MWQ-19	W	SW-846 7470A Dissolved
21105042614	MWQ-19	W	SW-846 9012A Cyanide Water
21105042614	MWQ-19	W	SW-846 9012A Cyanide Prep Water
21105042614	MWQ-19	W	EPA 353.2 Nitrite
21105042614	MWQ-19	W	EPA 353.2 Nitrate
21105042614	MWQ-19	W	Ship work pending results
21105042615	MWQ-18	W	SM 2540C TDS
21105042615	MWQ-18	W	SM 2320B Alkalinity Water
21105042615	MWQ-18	W	EPA 300.0 Inorganic Anions
21105042615	MWQ-18	W	SW-846 6010C
21105042615	MWQ-18	W	SW-846 6010C Dissolved
21105042615	MWQ-18	W	SW-846 6010C Dissolved Prep
21105042615	MWQ-18	W	SW-846 6010C Prep Water
21105042615	MWQ-18	W	SW-846 7196A Chromium VI
21105042615	MWQ-18	W	SW-846 7470A Water
21105042615	MWQ-18	W	SW-846 7470A Prep Water
21105042615	MWQ-18	W	SW-846 7470A Dissolved Prep
21105042615	MWQ-18	W	SW-846 7470A Dissolved
21105042615	MWQ-18	W	SW-846 9012A Cyanide Water
21105042615	MWQ-18	W	SW-846 9012A Cyanide Prep Water
21105042615	MWQ-18	W	EPA 353.2 Nitrite
21105042615	MWQ-18	W	EPA 353.2 Nitrate
21105042615	MWQ-18	W	Ship work pending results
21105042616	MWQ-14	W	SM 2540C TDS
21105042616	MWQ-14	W	SM 2320B Alkalinity Water
21105042616	MWQ-14	W	EPA 300.0 Inorganic Anions
21105042616	MWQ-14	W	SW-846 6010C
21105042616	MWQ-14	W	SW-846 6010C Dissolved
21105042616	MWQ-14	W	SW-846 6010C Dissolved Prep
21105042616	MWQ-14	W	SW-846 6010C Prep Water
21105042616	MWQ-14	W	SW-846 7196A Chromium VI
21105042616	MWQ-14	W	SW-846 7470A Water
21105042616	MWQ-14	W	SW-846 7470A Prep Water
21105042616	MWQ-14	W	SW-846 7470A Dissolved Prep
21105042616	MWQ-14	W	SW-846 7470A Dissolved
21105042616	MWQ-14	W	SW-846 9012A Cyanide Water
21105042616	MWQ-14	W	SW-846 9012A Cyanide Prep Water
21105042616	MWQ-14	W	EPA 353.2 Nitrite
21105042616	MWQ-14	W	EPA 353.2 Nitrate
21105042616	MWQ-14	W	Ship work pending results
21105042617	MWQ14-MS	W	EPA 300.0 Inorganic Anions
21105042617	MWQ14-MS	W	SW-846 6010C
21105042617	MWQ14-MS	W	SW-846 6010C Dissolved

21105042617	MWQ14-MS	W	SW-846 6010C Dissolved Prep
21105042617	MWQ14-MS	W	SW-846 6010C Prep Water
21105042617	MWQ14-MS	W	SW-846 7196A Chromium VI
21105042617	MWQ14-MS	W	SW-846 7470A Water
21105042617	MWQ14-MS	W	SW-846 7470A Prep Water
21105042617	MWQ14-MS	W	SW-846 7470A Dissolved Prep
21105042617	MWQ14-MS	W	SW-846 7470A Dissolved
21105042617	MWQ14-MS	W	SW-846 9012A Cyanide Water
21105042617	MWQ14-MS	W	SW-846 9012A Cyanide Prep Water
21105042617	MWQ14-MS	W	EPA 353.2 Nitrite
21105042617	MWQ14-MS	W	EPA 353.2 Nitrate
21105042617	MWQ14-MS	W	Ship work pending results
21105042618	MWQ14-MSD	W	EPA 300.0 Inorganic Anions
21105042618	MWQ14-MSD	W	SW-846 6010C
21105042618	MWQ14-MSD	W	SW-846 6010C Dissolved
21105042618	MWQ14-MSD	W	SW-846 6010C Dissolved Prep
21105042618	MWQ14-MSD	W	SW-846 6010C Prep Water
21105042618	MWQ14-MSD	W	SW-846 7196A Chromium VI
21105042618	MWQ14-MSD	W	SW-846 7470A Water
21105042618	MWQ14-MSD	W	SW-846 7470A Prep Water
21105042618	MWQ14-MSD	W	SW-846 7470A Dissolved Prep
21105042618	MWQ14-MSD	W	SW-846 7470A Dissolved
21105042618	MWQ14-MSD	W	SW-846 9012A Cyanide Water
21105042618	MWQ14-MSD	W	SW-846 9012A Cyanide Prep Water
21105042618	MWQ14-MSD	W	EPA 353.2 Nitrite
21105042618	MWQ14-MSD	W	EPA 353.2 Nitrate
21105042618	MWQ14-MSD	W	Ship work pending results
21105042619	MWQ14-DUP	W	SM 2540C TDS
21105042619	MWQ14-DUP	W	SM 2320B Alkalinity Water
21105042620	MWQ-20	W	SM 2540C TDS
21105042620	MWQ-20	W	SM 2320B Alkalinity Water
21105042620	MWQ-20	W	EPA 300.0 Inorganic Anions
21105042620	MWQ-20	W	SW-846 6010C
21105042620	MWQ-20	W	SW-846 6010C Dissolved
21105042620	MWQ-20	W	SW-846 6010C Dissolved Prep
21105042620	MWQ-20	W	SW-846 6010C Prep Water
21105042620	MWQ-20	W	SW-846 7196A Chromium VI
21105042620	MWQ-20	W	SW-846 7470A Water
21105042620	MWQ-20	W	SW-846 7470A Prep Water
21105042620	MWQ-20	W	SW-846 7470A Dissolved Prep
21105042620	MWQ-20	W	SW-846 7470A Dissolved
21105042620	MWQ-20	W	SW-846 9012A Cyanide Water
21105042620	MWQ-20	W	SW-846 9012A Cyanide Prep Water
21105042620	MWQ-20	W	EPA 353.2 Nitrite
21105042620	MWQ-20	W	EPA 353.2 Nitrate
21105042620	MWQ-20	W	Ship work pending results
21105042621	MWQ-20 DUP	W	SM 2540C TDS
21105042621	MWQ-20 DUP	W	SM 2320B Alkalinity Water
21105042621	MWQ-20 DUP	W	EPA 300.0 Inorganic Anions
21105042621	MWQ-20 DUP	W	SW-846 6010C
21105042621	MWQ-20 DUP	W	SW-846 6010C Dissolved
21105042621	MWQ-20 DUP	W	SW-846 6010C Dissolved Prep

21105042621	MWQ-20 DUP	W	SW-846 6010C Prep Water	
21105042621	MWQ-20 DUP	W	SW-846 7196A Chromium VI	
21105042621	MWQ-20 DUP	W	SW-846 7470A Water	
21105042621	MWQ-20 DUP	W	SW-846 7470A Prep Water	
21105042621	MWQ-20 DUP	W	SW-846 7470A Dissolved Prep	
21105042621	MWQ-20 DUP	W	SW-846 7470A Dissolved	
21105042621	MWQ-20 DUP	W	SW-846 9012A Cyanide Water	
21105042621	MWQ-20 DUP	W	SW-846 9012A Cyanide Prep Water	
21105042621	MWQ-20 DUP	W	EPA 353.2 Nitrite	
21105042621	MWQ-20 DUP	W	EPA 353.2 Nitrate	
21105042621	MWQ-20 DUP	W	Ship work pending results	
21105042622	EB2	W	SM 2540C TDS	
21105042622	EB2	W	SM 2320B Alkalinity Water	
21105042622	EB2	W	EPA 300.0 Inorganic Anions	
21105042622	EB2	W	SW-846 6010C	
21105042622	EB2	W	SW-846 6010C Dissolved	
21105042622	EB2	W	SW-846 6010C Dissolved Prep	
21105042622	EB2	W	SW-846 6010C Prep Water	
21105042622	EB2	W	SW-846 7196A Chromium VI	
21105042622	EB2	W	SW-846 7470A Water	
21105042622	EB2	W	SW-846 7470A Prep Water	
21105042622	EB2	W	SW-846 7470A Dissolved Prep	
21105042622	EB2	W	SW-846 7470A Dissolved	
21105042622	EB2	W	SW-846 9012A Cyanide Water	
21105042622	EB2	W	SW-846 9012A Cyanide Prep Water	
21105042622	EB2	W	EPA 353.2 Nitrite	
21105042622	EB2	W	EPA 353.2 Nitrate	
21105042622	EB2	W	Ship work pending results	
21105190401	MWL6	W	SM 2540C TDS	
21105190401	MWL6	W	SM 2320B Alkalinity Water	
21105190401	MWL6	W	EPA 300.0 Inorganic Anions	
21105190401	MWL6	W	SW-846 6010C	
21105190401	MWL6	W	SW-846 6010C Dissolved	
21105190401	MWL6	W	SW-846 6010C Dissolved Prep	
21105190401	MWL6	W	SW-846 6010C Prep Water	
21105190401	MWL6	W	SW-846 7196A Chromium VI	
21105190401	MWL6	W	SW-846 7470A Water	
21105190401	MWL6	W	SW-846 7470A Prep Water	
21105190401	MWL6	W	SW-846 7470A Dissolved Prep	
21105190401	MWL6	W	SW-846 7470A Dissolved	
21105190401	MWL6	W	SW-846 9012A Cyanide Water	
21105190401	MWL6	W	SW-846 9012A Cyanide Prep Water	
21105190401	MWL6	W	EPA 353.2 Nitrite	
21105190401	MWL6	W	EPA 353.2 Nitrate	
21105190401	MWL6	W	Ship work pending results	

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20
21105042619	MWQ14-DUP	Water	05/13/2011 12:31	05/14/2011 09:20
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

SOW No.:

EPA Sample No.	*Lab Sample ID.*
MWQ-3	21105042601
MWQ-4	21105042602
MWQ-5	21105042603
MWQ-5-DUP	21105042604
MWQ-6	21105042605
MWQ-7	21105042606
MWQ-10	21105042607
MWQ-10-MS	21105042608
MWQ-10-MSD	21105042609
MWQ-2	21105042611
MWQ-22	21105042612
MWQ-21	21105042613
MWQ-19	21105042614
MWQ-18	21105042615
MWQ-14	21105042616
MWQ14-MS	21105042617
MWQ14-MSD	21105042618
MWQ-20	21105042620
MWQ-20 DUP	21105042621
MWL6	21105190401
EB2	21105042622
MWQ-3	21105042601
MWQ-4	21105042602
MWQ-5	21105042603
MWQ-5-DUP	21105042604

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

SOW No.:

EPA Sample No.	*Lab Sample ID.*
MWQ-6	21105042605
MWQ-7	21105042606
MWQ-10	21105042607
MWQ-10-MS	21105042608
MWQ-10-MSD	21105042609
MWQ-2	21105042611
MWQ-22	21105042612
MWQ-21	21105042613
MWQ-19	21105042614
MWQ-18	21105042615
MWQ-14	21105042616
MWQ14-MS	21105042617
MWQ14-MSD	21105042618
MWQ-20	21105042620
MWQ-20 DUP	21105042621
MWL6	21105190401
EB2	21105042622

Were ICP interelement corrections applied ?	Yes / No	YES
Were ICP background corrections applied ?	Yes / No	YES
If yes-were raw data generated before application of background corrections ?	Yes / No	NO

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-3

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042601

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 0915

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	5.70	ug/L	B	4.03	60.0	SW-846 6010C	P
Arsenic	13.5	ug/L		2.53	10.0	SW-846 6010C	P
Barium	31.1	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.44	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	30200	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.65	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.65	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	10.4	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	33100	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.84	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	6210	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	81700	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	104	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.72	ug/L	U	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-3

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042601

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 0915

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	15.9	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	27.2	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.83	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	29600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.15	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.15	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	10.8	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	6.40	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	32300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	4.54	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	6210	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	80300	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	100	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-4

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042602

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1018

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	11.0	ug/L		2.53	10.0	SW-846 6010C	P
Barium	50.4	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.36	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	42300	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	11.8	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.79	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	19400	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	3310	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	55900	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	79.8	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	7.24	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-4

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042602

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1018

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	5.07	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	10.5	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	46.2	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.94	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	42300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	9.83	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.61	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	19200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	3310	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	56400	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	78.8	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	7.38	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-5

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042603

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1157

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	9.27	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	35.6	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.76	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	42500	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.48	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.48	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	9.64	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	23100	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	3260	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	65200	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	84.3	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.88	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-5

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042603

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1157

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.74	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	7.43	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	30.3	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.10	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	40800	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	8.59	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	21600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	3240	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	63600	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	80.8	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-5-DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042604

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1157

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	7.82	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	34.5	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.78	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	41600	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.35	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.35	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	10.5	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	4.06	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	22000	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.01	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	3130	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	64000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	81.5	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.77	ug/L	B	2.72	20.0	SW-846 6010C	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-5-DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042604

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1157

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	8.16	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	31.1	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.96	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	42000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	8.54	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	5.28	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	22300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	3180	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	64800	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	83.7	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-6

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042605

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1312

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	10.2	ug/L		2.53	10.0	SW-846 6010C	P
Barium	38.5	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.72	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	40800	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.42	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.42	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	7.09	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	19700	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	2120	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	57900	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	77.7	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	7.87	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-6

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042605

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1312

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	7.16	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	34.6	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.96	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	40600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	7.23	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.42	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	19300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	2610	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	57900	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	78.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	5.61	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-7

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042606

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1353

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	3.80	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	33.7	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.87	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	57600	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	8.93	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	4.79	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	24500	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	2690	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	72000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	76.8	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.72	ug/L	U	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-7

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042606

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1353

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	5.98	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	8.35	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	29.5	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.35	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	57200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.34	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.34	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	8.81	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	3.40	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	24600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	2650	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	6.12	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	72700	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	74.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042607

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	8.34	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	124	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.73	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	53600	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	12.3	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.54	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	40400	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.77	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	5950	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	21100	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	68.8	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	3.30	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042607

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	7.83	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	123	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.86	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	54300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.07	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	12.2	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.43	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	40500	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.09210	ug/L	B	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	4.87	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	6090	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	21500	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	69.8	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	4.86	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042608

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4940	ug/L		60.0	200	SW-846 6010C	P
Antimony	511	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	536	ug/L		2.53	10.0	SW-846 6010C	P
Barium	630	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	508	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	504	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	60000	ug/L		50.0	100	SW-846 6010C	P
Chromium	499	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	471	ug/L		1.00	10.0	SW-846 6010C	P
Copper	495	ug/L		1.37	10.0	SW-846 6010C	P
Iron	5040	ug/L		40.0	100	SW-846 6010C	P
Lead	505	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	47300	ug/L		50.0	100	SW-846 6010C	P
Manganese	504	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	5.65	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	514	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	456	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	16300	ug/L		100	500	SW-846 6010C	P
Selenium	510	ug/L		4.34	40.0	SW-846 6010C	P
Silver	501	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	41300	ug/L		200	1000	SW-846 6010C	P
Thallium	519	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	498	ug/L		1.20	100	SW-846 6010C	P
Vanadium	571	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	500	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042608

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4670	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	501	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	522	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	596	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	487	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	480	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	57100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	474	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	459	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	468	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4690	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	495	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	43300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	480	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	5.58	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	497	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	444	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	15100	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	505	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	481	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	39100	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	493	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	475	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	545	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	480	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042609

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4870	ug/L		60.0	200	SW-846 6010C	P
Antimony	523	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	544	ug/L		2.53	10.0	SW-846 6010C	P
Barium	626	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	504	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	499	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	59400	ug/L		50.0	100	SW-846 6010C	P
Chromium	496	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	479	ug/L		1.00	10.0	SW-846 6010C	P
Copper	490	ug/L		1.37	10.0	SW-846 6010C	P
Iron	4940	ug/L		40.0	100	SW-846 6010C	P
Lead	513	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	46200	ug/L		50.0	100	SW-846 6010C	P
Manganese	500	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	5.29	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	524	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	463	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	16200	ug/L		100	500	SW-846 6010C	P
Selenium	527	ug/L		4.34	40.0	SW-846 6010C	P
Silver	499	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	41800	ug/L		200	1000	SW-846 6010C	P
Thallium	524	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	497	ug/L		1.20	100	SW-846 6010C	P
Vanadium	565	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	531	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-10-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042609

Date Received: 05/04/11 | Time: 0945 | Date Collected: 05/03/11 | Time: 1523

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4830	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	510	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	538	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	620	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	503	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	494	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	60600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	486	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	471	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	484	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4890	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	501	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	47000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	495	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	5.30	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	506	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	456	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	16300	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	519	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	496	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	41100	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	503	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	486	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	565	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	495	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-2

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042611

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 0926

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	34.3	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	187000	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.53	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	23.9	ug/L		1.37	10.0	SW-846 6010C	P
Iron	52.8	ug/L	B	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	124000	ug/L		50.0	100	SW-846 6010C	P
Manganese	82.9	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	20.6	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.60	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	11600	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2170000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	73.5	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	394	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-2

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042611

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 0926

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.00	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	28.2	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.49	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	204000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.25	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	22.2	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	135000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	50.1	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	22.6	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	1.89	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	12600	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2260000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	71.6	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	426	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-22

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042612

Date Received: 05/12/11 | Time: 0855 | Date Collected: 05/11/11 | Time: 1101

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	40.8	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	37300	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	7.72	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	147	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	16200	ug/L		50.0	100	SW-846 6010C	P
Manganese	426	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	11.1	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	3260	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	315000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	29.4	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	7.64	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-22

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042612

Date Received: 05/12/11 | Time: 0855 | Date Collected: 05/11/11 | Time: 1101

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	37.6	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	38500	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	6.97	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	142	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	17400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	440	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	12.0	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	3340	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	5.00	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	319000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	32.2	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-21

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042613

Date Received: 05/12/11 | Time: 0855 | Date Collected: 05/11/11 | Time: 1305

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	1100	ug/L		60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	6.10	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	48.9	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.51	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	122000	ug/L		50.0	100	SW-846 6010C	P
Chromium	4.41	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	15.0	ug/L		1.37	10.0	SW-846 6010C	P
Iron	669	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	57600	ug/L		50.0	100	SW-846 6010C	P
Manganese	19.9	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	9.63	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.27	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	10300	ug/L		100	500	SW-846 6010C	P
Selenium	11.0	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	184000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	10.6	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	99.7	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	15.6	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-21

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042613

Date Received: 05/12/11 | Time: 0855 | Date Collected: 05/11/11 | Time: 1305

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	272	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	9.41	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	32.6	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.69	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	120000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.95	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	13.3	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	127	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	57700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	9.72	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	9970	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	9.90	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	181000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	5.29	ug/L	B	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	98.8	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-19

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042614

Date Received: 05/13/11 | Time: 0920 | Date Collected: 05/12/11 | Time: 0950

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	72.4	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	26.0	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	1.11	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	286000	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.38	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	2.38	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	20.1	ug/L		1.37	10.0	SW-846 6010C	P
Iron	2820	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	188000	ug/L		50.0	100	SW-846 6010C	P
Manganese	436	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	10400	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	1100000	ug/L		1000	5000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	64.3	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	865	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-19

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042614

Date Received: 05/13/11 | Time: 0920 | Date Collected: 05/12/11 | Time: 0950

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.75	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	21.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.27	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	285000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.18	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	2.18	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	18.0	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	2590	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	188000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	432	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10400	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	1110000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	64.6	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	615	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-18

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042615

Date Received: 05/13/11 | Time: 0920 | Date Collected: 05/12/11 | Time: 1240

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	153	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	6.33	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	35.6	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.65	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	41200	ug/L		50.0	100	SW-846 6010C	P
Chromium	15.9	ug/L		1.00	10.0	SW-846 6010C	P
Chromium (III)	15.9	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	814	ug/L		1.37	10.0	SW-846 6010C	P
Iron	168	ug/L		40.0	100	SW-846 6010C	P
Lead	1.79	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	18700	ug/L		50.0	100	SW-846 6010C	P
Manganese	5.27	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	16.4	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	6.94	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	2770	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	65500	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	78.6	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	52.4	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-18

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042615

Date Received: 05/13/11 | Time: 0920 | Date Collected: 05/12/11 | Time: 1240

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	7.34	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	33.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.01	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	44400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	554	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	20200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	9.28	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	11.6	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	2870	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	68800	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	79.9	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	38.2	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-14

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042616

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.6	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	15.3	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	65900	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.31	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	2.31	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	16.1	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	61800	ug/L		50.0	100	SW-846 6010C	P
Manganese	13.8	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	25.4	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.18	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	11400	ug/L		100	500	SW-846 6010C	P
Selenium	26.3	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	628000	ug/L		1000	5000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	59.0	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.72	ug/L	U	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-14

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042616

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.99	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	11.9	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	66700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.98	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.98	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	14.5	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	62400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	26.0	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	11400	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	23.3	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	633000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	58.1	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ14-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042617

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4930	ug/L		60.0	200	SW-846 6010C	P
Antimony	521	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	520	ug/L		2.53	10.0	SW-846 6010C	P
Barium	500	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	501	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	494	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	75500	ug/L		50.0	100	SW-846 6010C	P
Chromium	483	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	497	ug/L		1.00	10.0	SW-846 6010C	P
Copper	522	ug/L		1.37	10.0	SW-846 6010C	P
Iron	5010	ug/L		40.0	100	SW-846 6010C	P
Lead	486	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	70400	ug/L		50.0	100	SW-846 6010C	P
Manganese	499	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	4.06	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	538	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	493	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	22600	ug/L		100	500	SW-846 6010C	P
Selenium	542	ug/L		4.34	40.0	SW-846 6010C	P
Silver	502	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	676000	ug/L		1000	5000	SW-846 6010C	P
Thallium	478	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	495	ug/L		1.20	100	SW-846 6010C	P
Vanadium	565	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	518	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ14-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042617

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4710	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	514	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	519	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	493	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	494	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	488	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	75600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	472	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	484	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	512	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4790	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	475	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	69900	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	486	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.01	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	520	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	481	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	21900	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	531	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	495	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	682000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	465	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	480	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	554	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	511	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ14-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042618

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4980	ug/L		60.0	200	SW-846 6010C	P
Antimony	510	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	519	ug/L		2.53	10.0	SW-846 6010C	P
Barium	500	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	498	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	491	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	76400	ug/L		50.0	100	SW-846 6010C	P
Chromium	482	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	487	ug/L		1.00	10.0	SW-846 6010C	P
Copper	521	ug/L		1.37	10.0	SW-846 6010C	P
Iron	5060	ug/L		40.0	100	SW-846 6010C	P
Lead	478	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	72400	ug/L		50.0	100	SW-846 6010C	P
Manganese	497	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	3.89	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	528	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	482	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	23000	ug/L		100	500	SW-846 6010C	P
Selenium	528	ug/L		4.34	40.0	SW-846 6010C	P
Silver	498	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	695000	ug/L		1000	5000	SW-846 6010C	P
Thallium	472	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	493	ug/L		1.20	100	SW-846 6010C	P
Vanadium	565	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	516	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ14-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042618

Date Received: 05/14/11 | Time: 0920 | Date Collected: 05/13/11 | Time: 1231

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4700	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	514	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	526	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	495	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	495	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	494	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	74900	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	474	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	491	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	508	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4850	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	483	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	70700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	488	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.15	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	528	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	488	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	21800	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	548	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	489	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	677000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	472	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	481	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	558	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	510	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-20

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042620

Date Received: 05/18/11 | Time: 0845 | Date Collected: 05/17/11 | Time: 1322

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	261	ug/L		60.0	200	SW-846 6010C	P
Antimony	20.3	ug/L	B	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	26.3	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	1.93	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	556000	ug/L		50.0	100	SW-846 6010C	P
Chromium	3.38	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	3.38	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.23	ug/L	B	1.00	10.0	SW-846 6010C	P
Copper	23.2	ug/L		1.37	10.0	SW-846 6010C	P
Iron	241	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	311000	ug/L		50.0	100	SW-846 6010C	P
Manganese	967	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	17.0	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	16200	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2970000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.42	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	64.0	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2370	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-20

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042620

Date Received: 05/18/11 | Time: 0845 | Date Collected: 05/17/11 | Time: 1322

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	6.00	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.95	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	21.5	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	2.01	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	544000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.58	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	2.58	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.10	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	21.3	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	71.1	ug/L	B	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	306000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	934	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	16.4	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	15700	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2780000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	64.1	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2190	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-20 DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042621

Date Received: 05/18/11 | Time: 0845 | Date Collected: 05/17/11 | Time: 1322

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	285	ug/L		60.0	200	SW-846 6010C	P
Antimony	4.80	ug/L	B	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	27.4	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	1.93	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	574000	ug/L		50.0	100	SW-846 6010C	P
Chromium	3.42	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	3.42	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.12	ug/L	B	1.00	10.0	SW-846 6010C	P
Copper	21.8	ug/L		1.37	10.0	SW-846 6010C	P
Iron	271	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	321000	ug/L		50.0	100	SW-846 6010C	P
Manganese	994	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	17.3	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	16800	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	3050000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.73	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	63.4	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2410	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-20 DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042621

Date Received: 05/18/11 | Time: 0845 | Date Collected: 05/17/11 | Time: 1322

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.33	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	21.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	2.08	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	554000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.35	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	2.35	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	19.9	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	66.2	ug/L	B	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	312000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	955	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	16.6	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	16000	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2850000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	64.2	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2240	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWL6

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105190401

Date Received: 05/19/11 | Time: 0855 | Date Collected: 05/18/11 | Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	69.7	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	5.89	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	24.1	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	69200	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.02	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	2.02	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.74	ug/L	B	1.00	10.0	SW-846 6010C	P
Copper	13.3	ug/L		1.37	10.0	SW-846 6010C	P
Iron	7450	ug/L		40.0	100	SW-846 6010C	P
Lead	2.50	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	33800	ug/L		50.0	100	SW-846 6010C	P
Manganese	265	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	1.09	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	5470	ug/L		100	500	SW-846 6010C	P
Selenium	9.06	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	69600	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	69.9	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	93.6	ug/L		2.72	20.0	SW-846 6010C	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWL6

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105190401

Date Received: 05/19/11 | Time: 0855 | Date Collected: 05/18/11 | Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.95	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	20.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	69200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	9.01	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	566	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.90	ug/L	B	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	33700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	158	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	5560	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	8.02	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	67800	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	59.3	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	4.65	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB2

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042622

Date Received: 05/19/11 | Time: 0855 | Date Collected: 05/18/11 | Time: 1030

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	3.62	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	4.73	ug/L	B	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.25	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	135	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	2.40	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	ug/L	U	50.0	100	SW-846 6010C	P
Manganese	2.79	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	147	ug/L	B	100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	216	ug/L	B	200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	3.75	ug/L	U	3.75	20.0	SW-846 6010C	P
Zinc	2.72	ug/L	U	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB2

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | % Solids: | Lab Sample ID: 21105042622

Date Received: 05/19/11 | Time: 0855 | Date Collected: 05/18/11 | Time: 1030

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	2.36	ug/L	B	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.41	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	137	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	2.69	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	50.0	ug/L	U	50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	3.52	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	1.22	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	260	ug/L	B	100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	404	ug/L	B	200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	3.75	ug/L	U	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.79	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

FORM I - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-82-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1033

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.99	100	mg/L	SW-846 6010C	P
Antimony	1.00	0.9964	100	mg/L	SW-846 6010C	P
Arsenic	1.00	1.02	102	mg/L	SW-846 6010C	P
Barium	1.00	1.08	108	mg/L	SW-846 6010C	P
Beryllium	1.00	1.01	101	mg/L	SW-846 6010C	P
Boron	5.00	5.02	100	mg/L	SW-846 6010C	P
Cadmium	1.00	0.994	99	mg/L	SW-846 6010C	P
Calcium	10.0	10.1	101	mg/L	SW-846 6010C	P
Chromium	1.00	1.02	102	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9808	98	mg/L	SW-846 6010C	P
Copper	1.00	0.9899	99	mg/L	SW-846 6010C	P
Iron	10.0	10.2	102	mg/L	SW-846 6010C	P
Lead	1.00	1.02	102	mg/L	SW-846 6010C	P
Lithium	1.00	0.9603	96	mg/L	SW-846 6010C	P
Magnesium	10.0	9.94	99	mg/L	SW-846 6010C	P
Manganese	1.00	1.01	101	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9956	100	mg/L	SW-846 6010C	P
Nickel	1.00	0.9709	97	mg/L	SW-846 6010C	P
Potassium	10.0	10.6	106	mg/L	SW-846 6010C	P
Selenium	1.00	0.9923	99	mg/L	SW-846 6010C	P
Silver	1.00	1.06	106	mg/L	SW-846 6010C	P
Sodium	10.0	10.4	104	mg/L	SW-846 6010C	P
Strontium	1.00	1.01	101	mg/L	SW-846 6010C	P
Thallium	1.00	1.03	103	mg/L	SW-846 6010C	P
Tin	1.00	1.07	107	mg/L	SW-846 6010C	P
Titanium	1.00	1.01	101	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9891	99	mg/L	SW-846 6010C	P
Zinc	1.00	0.9781	98	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-81-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1052

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.2091	105	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0584	97	mg/L	SW-846 6010C	P
Barium	0.0100	0.0103	103	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00490	98	mg/L	SW-846 6010C	P
Boron	0.500	0.4623	92	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00510	101	mg/L	SW-846 6010C	P
Calcium	0.100	0.1144	114	mg/L	SW-846 6010C	P
Chromium	0.0100	0.0101	101	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.00950	95	mg/L	SW-846 6010C	P
Copper	0.0100	0.00940	94	mg/L	SW-846 6010C	P
Iron	0.100	0.1022	102	mg/L	SW-846 6010C	P
Lead	0.0150	0.0162	108	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0621	124	mg/L	SW-846 6010C	P
Magnesium	0.100	0.1182	118	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0154	103	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0493	99	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0400	100	mg/L	SW-846 6010C	P
Potassium	0.500	0.4852	97	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0370	92	mg/L	SW-846 6010C	P
Silver	0.0100	0.00980	98	mg/L	SW-846 6010C	P
Sodium	1.00	1.09	109	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0518	104	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0111	111	mg/L	SW-846 6010C	P
Tin	0.100	0.0898	90	mg/L	SW-846 6010C	P
Titanium	0.100	0.0990	99	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0188	94	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0205	103	mg/L	SW-846 6010C	P
Zirconium	0.0100	0.00670	67	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-81-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1058

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Arsenic	0.00500	0.00480	97	mg/L	SW-846 6010C	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-9 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1123

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.23	105	mg/L	SW-846 6010C	P
Antimony	0.500	0.5088	102	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5325	106	mg/L	SW-846 6010C	P
Barium	0.500	0.5251	105	mg/L	SW-846 6010C	P
Beryllium	0.500	0.5209	104	mg/L	SW-846 6010C	P
Boron	2.50	2.57	103	mg/L	SW-846 6010C	P
Cadmium	0.500	0.5214	104	mg/L	SW-846 6010C	P
Calcium	5.00	5.23	105	mg/L	SW-846 6010C	P
Chromium	0.500	0.5235	105	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5281	106	mg/L	SW-846 6010C	P
Copper	0.500	0.5224	104	mg/L	SW-846 6010C	P
Iron	5.00	5.23	105	mg/L	SW-846 6010C	P
Lead	0.500	0.5338	107	mg/L	SW-846 6010C	P
Lithium	0.500	0.4768	95	mg/L	SW-846 6010C	P
Magnesium	5.00	5.21	104	mg/L	SW-846 6010C	P
Manganese	0.500	0.5244	105	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5283	106	mg/L	SW-846 6010C	P
Nickel	0.500	0.5178	104	mg/L	SW-846 6010C	P
Potassium	10.0	10.6	106	mg/L	SW-846 6010C	P
Selenium	0.500	0.5258	105	mg/L	SW-846 6010C	P
Silicon	5.00	5.17	103	mg/L	SW-846 6010C	P
Silver	0.500	0.5232	105	mg/L	SW-846 6010C	P
Sodium	20.0	20.9	104	mg/L	SW-846 6010C	P
Strontium	0.500	0.5195	104	mg/L	SW-846 6010C	P
Thallium	0.500	0.5395	108	mg/L	SW-846 6010C	P
Tin	0.500	0.5182	104	mg/L	SW-846 6010C	P
Titanium	0.500	0.5177	104	mg/L	SW-846 6010C	P
Vanadium	0.500	0.5201	104	mg/L	SW-846 6010C	P
Zinc	0.500	0.5184	104	mg/L	SW-846 6010C	P
Zirconium	0.500	0.5233	105	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-9 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1244

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.16	103	mg/L	SW-846 6010C	P
Antimony	0.500	0.5109	102	mg/L	SW-846 6010C	P
Arsenic	0.500	0.534	107	mg/L	SW-846 6010C	P
Barium	0.500	0.5258	105	mg/L	SW-846 6010C	P
Beryllium	0.500	0.5203	104	mg/L	SW-846 6010C	P
Boron	2.50	2.57	103	mg/L	SW-846 6010C	P
Cadmium	0.500	0.5236	105	mg/L	SW-846 6010C	P
Calcium	5.00	5.22	104	mg/L	SW-846 6010C	P
Chromium	0.500	0.5215	104	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5248	105	mg/L	SW-846 6010C	P
Copper	0.500	0.5208	104	mg/L	SW-846 6010C	P
Iron	5.00	5.19	104	mg/L	SW-846 6010C	P
Lead	0.500	0.5316	106	mg/L	SW-846 6010C	P
Lithium	0.500	0.4608	92	mg/L	SW-846 6010C	P
Magnesium	5.00	5.21	104	mg/L	SW-846 6010C	P
Manganese	0.500	0.5241	105	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5233	105	mg/L	SW-846 6010C	P
Nickel	0.500	0.5127	103	mg/L	SW-846 6010C	P
Potassium	10.0	10.6	106	mg/L	SW-846 6010C	P
Selenium	0.500	0.5243	105	mg/L	SW-846 6010C	P
Silicon	5.00	5.17	103	mg/L	SW-846 6010C	P
Silver	0.500	0.5249	105	mg/L	SW-846 6010C	P
Sodium	20.0	20.9	105	mg/L	SW-846 6010C	P
Strontium	0.500	0.5177	104	mg/L	SW-846 6010C	P
Thallium	0.500	0.5432	109	mg/L	SW-846 6010C	P
Tin	0.500	0.5172	103	mg/L	SW-846 6010C	P
Titanium	0.500	0.5162	103	mg/L	SW-846 6010C	P
Vanadium	0.500	0.5174	103	mg/L	SW-846 6010C	P
Zinc	0.500	0.5195	104	mg/L	SW-846 6010C	P
Zirconium	0.500	0.5166	103	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-9 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1419

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.09	102	mg/L	SW-846 6010C	P
Antimony	0.500	0.5209	104	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5425	108	mg/L	SW-846 6010C	P
Barium	0.500	0.5277	106	mg/L	SW-846 6010C	P
Beryllium	0.500	0.5207	104	mg/L	SW-846 6010C	P
Boron	2.50	2.59	103	mg/L	SW-846 6010C	P
Cadmium	0.500	0.5284	106	mg/L	SW-846 6010C	P
Calcium	5.00	5.19	104	mg/L	SW-846 6010C	P
Chromium	0.500	0.5222	104	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5311	106	mg/L	SW-846 6010C	P
Copper	0.500	0.5208	104	mg/L	SW-846 6010C	P
Iron	5.00	5.16	103	mg/L	SW-846 6010C	P
Lead	0.500	0.5389	108	mg/L	SW-846 6010C	P
Lithium	0.500	0.4543	91	mg/L	SW-846 6010C	P
Magnesium	5.00	5.20	104	mg/L	SW-846 6010C	P
Manganese	0.500	0.5253	105	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5289	106	mg/L	SW-846 6010C	P
Nickel	0.500	0.5187	104	mg/L	SW-846 6010C	P
Potassium	10.0	10.5	105	mg/L	SW-846 6010C	P
Selenium	0.500	0.533	107	mg/L	SW-846 6010C	P
Silicon	5.00	5.13	103	mg/L	SW-846 6010C	P
Silver	0.500	0.526	105	mg/L	SW-846 6010C	P
Sodium	20.0	20.9	104	mg/L	SW-846 6010C	P
Strontium	0.500	0.515	103	mg/L	SW-846 6010C	P
Thallium	0.500	0.5494	110	mg/L	SW-846 6010C	P
Tin	0.500	0.5239	105	mg/L	SW-846 6010C	P
Titanium	0.500	0.5152	103	mg/L	SW-846 6010C	P
Vanadium	0.500	0.5173	103	mg/L	SW-846 6010C	P
Zinc	0.500	0.5227	105	mg/L	SW-846 6010C	P
Zirconium	0.500	0.5149	103	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-9 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/10/11 Time: 1529

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.85	97	mg/L	SW-846 6010C	P
Antimony	0.500	0.4934	99	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5154	103	mg/L	SW-846 6010C	P
Barium	0.500	0.5068	101	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4999	100	mg/L	SW-846 6010C	P
Boron	2.50	2.45	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.5052	101	mg/L	SW-846 6010C	P
Calcium	5.00	4.96	99	mg/L	SW-846 6010C	P
Chromium	0.500	0.5015	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5038	101	mg/L	SW-846 6010C	P
Copper	0.500	0.500	100	mg/L	SW-846 6010C	P
Iron	5.00	4.93	99	mg/L	SW-846 6010C	P
Lead	0.500	0.5106	102	mg/L	SW-846 6010C	P
Lithium	0.500	0.4312	86	mg/L	SW-846 6010C	P
Magnesium	5.00	4.94	99	mg/L	SW-846 6010C	P
Manganese	0.500	0.5046	101	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5035	101	mg/L	SW-846 6010C	P
Nickel	0.500	0.4915	98	mg/L	SW-846 6010C	P
Potassium	10.0	9.84	98	mg/L	SW-846 6010C	P
Selenium	0.500	0.5068	101	mg/L	SW-846 6010C	P
Silicon	5.00	4.95	99	mg/L	SW-846 6010C	P
Silver	0.500	0.5052	101	mg/L	SW-846 6010C	P
Sodium	20.0	20.3	102	mg/L	SW-846 6010C	P
Strontium	0.500	0.4967	99	mg/L	SW-846 6010C	P
Thallium	0.500	0.5229	105	mg/L	SW-846 6010C	P
Tin	0.500	0.4979	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4981	100	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4972	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.5007	100	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4976	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-82-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1144

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.80	98	mg/L	SW-846 6010C	P
Antimony	1.00	0.9571	96	mg/L	SW-846 6010C	P
Arsenic	1.00	0.9784	98	mg/L	SW-846 6010C	P
Barium	1.00	1.03	103	mg/L	SW-846 6010C	P
Beryllium	1.00	0.9698	97	mg/L	SW-846 6010C	P
Boron	5.00	4.85	97	mg/L	SW-846 6010C	P
Cadmium	1.00	0.9565	96	mg/L	SW-846 6010C	P
Calcium	10.0	9.71	97	mg/L	SW-846 6010C	P
Chromium	1.00	0.9856	99	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9436	94	mg/L	SW-846 6010C	P
Copper	1.00	0.9509	95	mg/L	SW-846 6010C	P
Iron	10.0	9.83	98	mg/L	SW-846 6010C	P
Lead	1.00	0.9747	97	mg/L	SW-846 6010C	P
Lithium	1.00	0.9938	99	mg/L	SW-846 6010C	P
Magnesium	10.0	9.73	97	mg/L	SW-846 6010C	P
Manganese	1.00	0.9706	97	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9516	95	mg/L	SW-846 6010C	P
Nickel	1.00	0.9664	97	mg/L	SW-846 6010C	P
Potassium	10.0	9.92	99	mg/L	SW-846 6010C	P
Selenium	1.00	0.9579	96	mg/L	SW-846 6010C	P
Silver	1.00	1.04	104	mg/L	SW-846 6010C	P
Sodium	10.0	9.93	99	mg/L	SW-846 6010C	P
Strontium	1.00	0.9754	98	mg/L	SW-846 6010C	P
Thallium	1.00	0.9771	98	mg/L	SW-846 6010C	P
Tin	1.00	1.03	103	mg/L	SW-846 6010C	P
Titanium	1.00	0.9725	97	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9525	95	mg/L	SW-846 6010C	P
Zinc	1.00	0.9313	93	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-85-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1207

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.2028	101	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0556	93	mg/L	SW-846 6010C	P
Arsenic	0.0100	0.00930	93	mg/L	SW-846 6010C	P
Barium	0.0100	0.00960	96	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00460	93	mg/L	SW-846 6010C	P
Boron	0.500	0.4691	94	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00450	89	mg/L	SW-846 6010C	P
Chromium	0.0100	0.0101	101	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.00940	94	mg/L	SW-846 6010C	P
Copper	0.0100	0.00990	99	mg/L	SW-846 6010C	P
Iron	0.100	0.0936	94	mg/L	SW-846 6010C	P
Lead	0.0150	0.0146	97	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0497	99	mg/L	SW-846 6010C	P
Magnesium	0.100	0.0834	83	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0153	102	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0480	96	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0380	95	mg/L	SW-846 6010C	P
Potassium	0.500	0.4723	94	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0379	95	mg/L	SW-846 6010C	P
Silver	0.0100	0.00960	96	mg/L	SW-846 6010C	P
Sodium	1.00	1.01	101	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0486	97	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0100	100	mg/L	SW-846 6010C	P
Tin	0.100	0.0967	97	mg/L	SW-846 6010C	P
Titanium	0.100	0.0957	96	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0194	97	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0193	96	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-85-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1213

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	0.0500	0.0449	90	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1236

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.09	102	mg/L	SW-846 6010C	P
Antimony	0.500	0.4881	98	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4998	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Boron	2.50	2.48	99	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4957	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.05	101	mg/L	SW-846 6010C	P
Chromium	0.500	0.5017	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5012	100	mg/L	SW-846 6010C	P
Copper	0.500	0.4973	99	mg/L	SW-846 6010C	P
Iron	5.00	5.10	102	mg/L	SW-846 6010C	P
Lead	0.500	0.502	100	mg/L	SW-846 6010C	P
Lithium	0.500	0.5205	104	mg/L	SW-846 6010C	P
Magnesium	5.00	5.05	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4994	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5001	100	mg/L	SW-846 6010C	P
Nickel	0.500	0.5021	100	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.5005	100	mg/L	SW-846 6010C	P
Silicon	5.00	5.10	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4991	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.6	103	mg/L	SW-846 6010C	P
Strontium	0.500	0.5007	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.5062	101	mg/L	SW-846 6010C	P
Tin	0.500	0.4988	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4947	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4939	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4981	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1411

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.96	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4864	97	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4952	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4992	100	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4978	100	mg/L	SW-846 6010C	P
Boron	2.50	2.54	102	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4977	100	mg/L	SW-846 6010C	P
Calcium	5.00	4.97	99	mg/L	SW-846 6010C	P
Chromium	0.500	0.5018	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5013	100	mg/L	SW-846 6010C	P
Copper	0.500	0.4984	100	mg/L	SW-846 6010C	P
Iron	5.00	4.98	100	mg/L	SW-846 6010C	P
Lead	0.500	0.503	101	mg/L	SW-846 6010C	P
Lithium	0.500	0.4805	96	mg/L	SW-846 6010C	P
Magnesium	5.00	5.00	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.5018	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4983	100	mg/L	SW-846 6010C	P
Nickel	0.500	0.5039	101	mg/L	SW-846 6010C	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010C	P
Selenium	0.500	0.4996	100	mg/L	SW-846 6010C	P
Silicon	5.00	5.05	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4977	100	mg/L	SW-846 6010C	P
Sodium	20.0	21.4	107	mg/L	SW-846 6010C	P
Strontium	0.500	0.4989	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.5021	100	mg/L	SW-846 6010C	P
Tin	0.500	0.5184	104	mg/L	SW-846 6010C	P
Titanium	0.500	0.4978	100	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4942	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4939	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1547

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.01	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4884	98	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4952	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4999	100	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4985	100	mg/L	SW-846 6010C	P
Boron	2.50	2.60	104	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4975	100	mg/L	SW-846 6010C	P
Calcium	5.00	4.97	99	mg/L	SW-846 6010C	P
Chromium	0.500	0.502	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4973	99	mg/L	SW-846 6010C	P
Copper	0.500	0.5009	100	mg/L	SW-846 6010C	P
Iron	5.00	5.00	100	mg/L	SW-846 6010C	P
Lead	0.500	0.5016	100	mg/L	SW-846 6010C	P
Lithium	0.500	0.5266	105	mg/L	SW-846 6010C	P
Magnesium	5.00	4.99	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.5032	101	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010C	P
Nickel	0.500	0.4995	100	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4989	100	mg/L	SW-846 6010C	P
Silicon	5.00	5.08	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4986	100	mg/L	SW-846 6010C	P
Sodium	20.0	21.7	108	mg/L	SW-846 6010C	P
Strontium	0.500	0.5024	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.5053	101	mg/L	SW-846 6010C	P
Tin	0.500	0.5245	105	mg/L	SW-846 6010C	P
Titanium	0.500	0.4994	100	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4976	100	mg/L	SW-846 6010C	P
Zinc	0.500	0.4945	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4937	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1725

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4847	97	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4935	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4971	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4946	99	mg/L	SW-846 6010C	P
Boron	2.50	2.46	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4922	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.23	105	mg/L	SW-846 6010C	P
Chromium	0.500	0.4978	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4923	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4972	99	mg/L	SW-846 6010C	P
Iron	5.00	4.99	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4965	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Magnesium	5.00	4.97	99	mg/L	SW-846 6010C	P
Manganese	0.500	0.4995	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4958	99	mg/L	SW-846 6010C	P
Nickel	0.500	0.4942	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4946	99	mg/L	SW-846 6010C	P
Silicon	5.00	5.11	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4968	99	mg/L	SW-846 6010C	P
Sodium	20.0	21.4	107	mg/L	SW-846 6010C	P
Strontium	0.500	0.502	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4967	99	mg/L	SW-846 6010C	P
Tin	0.500	0.5164	103	mg/L	SW-846 6010C	P
Titanium	0.500	0.4964	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4928	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4925	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4958	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 1847

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.00	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4837	97	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4891	98	mg/L	SW-846 6010C	P
Barium	0.500	0.4949	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4937	99	mg/L	SW-846 6010C	P
Boron	2.50	2.51	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4906	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.16	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4972	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4945	99	mg/L	SW-846 6010C	P
Copper	0.500	0.4975	100	mg/L	SW-846 6010C	P
Iron	5.00	4.93	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4938	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.5324	106	mg/L	SW-846 6010C	P
Magnesium	5.00	4.90	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4974	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4944	99	mg/L	SW-846 6010C	P
Nickel	0.500	0.4961	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4921	98	mg/L	SW-846 6010C	P
Silicon	5.00	5.06	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4954	99	mg/L	SW-846 6010C	P
Sodium	20.0	26.8	134	mg/L	SW-846 6010C	P
Strontium	0.500	0.501	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4969	99	mg/L	SW-846 6010C	P
Tin	0.500	0.5147	103	mg/L	SW-846 6010C	P
Titanium	0.500	0.496	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4931	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4921	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4914	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 2011

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.98	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4787	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4757	95	mg/L	SW-846 6010C	P
Barium	0.500	0.4931	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4927	99	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4858	97	mg/L	SW-846 6010C	P
Calcium	5.00	5.14	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4876	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4992	100	mg/L	SW-846 6010C	P
Iron	5.00	4.93	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4864	97	mg/L	SW-846 6010C	P
Lithium	0.500	0.5301	106	mg/L	SW-846 6010C	P
Magnesium	5.00	4.88	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4969	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4898	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4951	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4832	97	mg/L	SW-846 6010C	P
Silicon	5.00	5.05	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4955	99	mg/L	SW-846 6010C	P
Sodium	20.0	22.2	111	mg/L	SW-846 6010C	P
Strontium	0.500	0.5027	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.4874	97	mg/L	SW-846 6010C	P
Tin	0.500	0.5049	101	mg/L	SW-846 6010C	P
Titanium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4919	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4894	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4936	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 05/24/11 Time: 2133

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4758	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4696	94	mg/L	SW-846 6010C	P
Barium	0.500	0.4927	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4925	98	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4856	97	mg/L	SW-846 6010C	P
Calcium	5.00	5.15	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.498	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4836	97	mg/L	SW-846 6010C	P
Copper	0.500	0.5008	100	mg/L	SW-846 6010C	P
Iron	5.00	4.94	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4808	96	mg/L	SW-846 6010C	P
Lithium	0.500	0.5434	109	mg/L	SW-846 6010C	P
Magnesium	5.00	4.90	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4964	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4873	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4947	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010C	P
Selenium	0.500	0.478	96	mg/L	SW-846 6010C	P
Silicon	5.00	5.10	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4939	99	mg/L	SW-846 6010C	P
Sodium	20.0	26.7	134	mg/L	SW-846 6010C	P
Strontium	0.500	0.502	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4784	96	mg/L	SW-846 6010C	P
Tin	0.500	0.5003	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4975	100	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4934	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4889	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4926	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 0945

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	1.00	0.9923	99	mg/L	SW-846 6010C	P
Calcium	10.0	9.83	98	mg/L	SW-846 6010C	P
Sodium	10.0	9.62	96	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-85-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 1017

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.0100	0.00940	94	mg/L	SW-846 6010C	P
Calcium	0.100	0.0926	93	mg/L	SW-846 6010C	P
Sodium	1.00	0.9168	92	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 1053

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4971	99	mg/L	SW-846 6010C	P
Calcium	5.00	4.89	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 1606

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4996	100	mg/L	SW-846 6010C	P
Calcium	5.00	5.03	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 1742

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4954	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 1907

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4918	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.03	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.4	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 2032

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4896	98	mg/L	SW-846 6010C	P
Calcium	5.00	4.98	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 2159

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Calcium	5.00	4.98	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/25/11 Time: 2325

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4881	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.01	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.6	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/26/11 Time: 0050

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4884	98	mg/L	SW-846 6010C	P
Calcium	5.00	4.92	98	mg/L	SW-846 6010C	P
Sodium	20.0	19.2	96	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1022

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.67	97	mg/L	SW-846 6010C	P
Antimony	1.00	0.9269	93	mg/L	SW-846 6010C	P
Arsenic	1.00	0.919	92	mg/L	SW-846 6010C	P
Barium	1.00	0.9831	98	mg/L	SW-846 6010C	P
Beryllium	1.00	0.9541	95	mg/L	SW-846 6010C	P
Boron	5.00	4.60	92	mg/L	SW-846 6010C	P
Cadmium	1.00	0.9383	94	mg/L	SW-846 6010C	P
Calcium	10.0	9.70	97	mg/L	SW-846 6010C	P
Chromium	1.00	0.9638	96	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9383	94	mg/L	SW-846 6010C	P
Copper	1.00	0.9278	93	mg/L	SW-846 6010C	P
Iron	10.0	9.80	98	mg/L	SW-846 6010C	P
Lead	1.00	0.9632	96	mg/L	SW-846 6010C	P
Lithium	1.00	0.9705	97	mg/L	SW-846 6010C	P
Magnesium	10.0	9.84	98	mg/L	SW-846 6010C	P
Manganese	1.00	0.9525	95	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9428	94	mg/L	SW-846 6010C	P
Nickel	1.00	0.9449	94	mg/L	SW-846 6010C	P
Potassium	10.0	9.82	98	mg/L	SW-846 6010C	P
Selenium	1.00	0.9494	95	mg/L	SW-846 6010C	P
Silver	1.00	0.9816	98	mg/L	SW-846 6010C	P
Sodium	10.0	9.68	97	mg/L	SW-846 6010C	P
Strontium	1.00	0.9564	96	mg/L	SW-846 6010C	P
Thallium	1.00	0.9853	99	mg/L	SW-846 6010C	P
Tin	1.00	0.9836	98	mg/L	SW-846 6010C	P
Titanium	1.00	0.9496	95	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9324	93	mg/L	SW-846 6010C	P
Zinc	1.00	0.9137	91	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1058

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.1653	83	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0584	97	mg/L	SW-846 6010C	P
Arsenic	0.0100	0.0112	112	mg/L	SW-846 6010C	P
Barium	0.0100	0.00950	95	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00470	95	mg/L	SW-846 6010C	P
Boron	0.500	0.4755	95	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00470	94	mg/L	SW-846 6010C	P
Calcium	0.100	0.102	102	mg/L	SW-846 6010C	P
Chromium	0.0100	0.00950	95	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.00940	94	mg/L	SW-846 6010C	P
Copper	0.0100	0.00910	91	mg/L	SW-846 6010C	P
Iron	0.100	0.100	100	mg/L	SW-846 6010C	P
Lead	0.0150	0.0144	96	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0533	107	mg/L	SW-846 6010C	P
Magnesium	0.100	0.1079	108	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0142	94	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0483	97	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0383	96	mg/L	SW-846 6010C	P
Potassium	0.500	0.5035	101	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0398	99	mg/L	SW-846 6010C	P
Silver	0.0100	0.0104	104	mg/L	SW-846 6010C	P
Sodium	1.00	1.02	102	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0482	96	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0109	109	mg/L	SW-846 6010C	P
Tin	0.100	0.0966	97	mg/L	SW-846 6010C	P
Titanium	0.100	0.0953	95	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0183	91	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0197	98	mg/L	SW-846 6010C	P
Zirconium	0.0100	0.0236	236	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1137

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.01	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4767	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4953	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4866	97	mg/L	SW-846 6010C	P
Beryllium	0.500	0.486	97	mg/L	SW-846 6010C	P
Boron	2.50	2.41	96	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4845	97	mg/L	SW-846 6010C	P
Calcium	5.00	4.97	99	mg/L	SW-846 6010C	P
Chromium	0.500	0.4863	97	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4868	97	mg/L	SW-846 6010C	P
Copper	0.500	0.485	97	mg/L	SW-846 6010C	P
Iron	5.00	5.02	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4914	98	mg/L	SW-846 6010C	P
Lithium	0.500	0.4718	94	mg/L	SW-846 6010C	P
Magnesium	5.00	5.05	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4855	97	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.487	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4806	96	mg/L	SW-846 6010C	P
Potassium	10.0	9.91	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.486	97	mg/L	SW-846 6010C	P
Silicon	5.00	4.96	99	mg/L	SW-846 6010C	P
Silver	0.500	0.4909	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.0	100	mg/L	SW-846 6010C	P
Strontium	0.500	0.4915	98	mg/L	SW-846 6010C	P
Thallium	0.500	0.5025	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4819	96	mg/L	SW-846 6010C	P
Titanium	0.500	0.4839	97	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4791	96	mg/L	SW-846 6010C	P
Zinc	0.500	0.4818	96	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4931	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1610

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.82	96	mg/L	SW-846 6010C	P
Antimony	0.500	0.4636	93	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4841	97	mg/L	SW-846 6010C	P
Barium	0.500	0.4764	95	mg/L	SW-846 6010C	P
Beryllium	0.500	0.476	95	mg/L	SW-846 6010C	P
Boron	2.50	2.32	93	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4709	94	mg/L	SW-846 6010C	P
Calcium	5.00	5.10	102	mg/L	SW-846 6010C	P
Chromium	0.500	0.4757	95	mg/L	SW-846 6010C	P
Cobalt	0.500	0.474	95	mg/L	SW-846 6010C	P
Copper	0.500	0.4756	95	mg/L	SW-846 6010C	P
Iron	5.00	4.84	97	mg/L	SW-846 6010C	P
Lead	0.500	0.4721	94	mg/L	SW-846 6010C	P
Lithium	0.500	0.4931	99	mg/L	SW-846 6010C	P
Magnesium	5.00	4.85	97	mg/L	SW-846 6010C	P
Manganese	0.500	0.4722	94	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4707	94	mg/L	SW-846 6010C	P
Nickel	0.500	0.4765	95	mg/L	SW-846 6010C	P
Potassium	10.0	9.81	98	mg/L	SW-846 6010C	P
Selenium	0.500	0.472	94	mg/L	SW-846 6010C	P
Silicon	5.00	4.86	97	mg/L	SW-846 6010C	P
Silver	0.500	0.4816	96	mg/L	SW-846 6010C	P
Sodium	20.0	19.8	99	mg/L	SW-846 6010C	P
Strontium	0.500	0.4855	97	mg/L	SW-846 6010C	P
Thallium	0.500	0.4858	97	mg/L	SW-846 6010C	P
Tin	0.500	0.4698	94	mg/L	SW-846 6010C	P
Titanium	0.500	0.4749	95	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4683	94	mg/L	SW-846 6010C	P
Zinc	0.500	0.4714	94	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4784	96	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1745

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.77	95	mg/L	SW-846 6010C	P
Antimony	0.500	0.4699	94	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4865	97	mg/L	SW-846 6010C	P
Barium	0.500	0.4753	95	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4754	95	mg/L	SW-846 6010C	P
Boron	2.50	2.34	94	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4717	94	mg/L	SW-846 6010C	P
Calcium	5.00	4.76	95	mg/L	SW-846 6010C	P
Chromium	0.500	0.4764	95	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4809	96	mg/L	SW-846 6010C	P
Copper	0.500	0.475	95	mg/L	SW-846 6010C	P
Iron	5.00	4.76	95	mg/L	SW-846 6010C	P
Lead	0.500	0.4804	96	mg/L	SW-846 6010C	P
Lithium	0.500	0.4581	92	mg/L	SW-846 6010C	P
Magnesium	5.00	4.74	95	mg/L	SW-846 6010C	P
Manganese	0.500	0.4731	95	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.477	95	mg/L	SW-846 6010C	P
Nickel	0.500	0.4757	95	mg/L	SW-846 6010C	P
Potassium	10.0	9.61	96	mg/L	SW-846 6010C	P
Selenium	0.500	0.4784	96	mg/L	SW-846 6010C	P
Silicon	5.00	4.78	96	mg/L	SW-846 6010C	P
Silver	0.500	0.480	96	mg/L	SW-846 6010C	P
Sodium	20.0	19.4	97	mg/L	SW-846 6010C	P
Strontium	0.500	0.4826	97	mg/L	SW-846 6010C	P
Thallium	0.500	0.4927	99	mg/L	SW-846 6010C	P
Tin	0.500	0.4821	96	mg/L	SW-846 6010C	P
Titanium	0.500	0.4744	95	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4699	94	mg/L	SW-846 6010C	P
Zinc	0.500	0.4709	94	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4715	94	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 05/26/11 Time: 1905

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.78	96	mg/L	SW-846 6010C	P
Antimony	0.500	0.4678	94	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4786	96	mg/L	SW-846 6010C	P
Barium	0.500	0.4734	95	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4732	95	mg/L	SW-846 6010C	P
Boron	2.50	2.34	94	mg/L	SW-846 6010C	P
Cadmium	0.500	0.471	94	mg/L	SW-846 6010C	P
Calcium	5.00	4.79	96	mg/L	SW-846 6010C	P
Chromium	0.500	0.4749	95	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4784	96	mg/L	SW-846 6010C	P
Copper	0.500	0.4721	94	mg/L	SW-846 6010C	P
Iron	5.00	4.79	96	mg/L	SW-846 6010C	P
Lead	0.500	0.477	95	mg/L	SW-846 6010C	P
Lithium	0.500	0.4591	92	mg/L	SW-846 6010C	P
Magnesium	5.00	4.81	96	mg/L	SW-846 6010C	P
Manganese	0.500	0.4711	94	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.475	95	mg/L	SW-846 6010C	P
Nickel	0.500	0.4743	95	mg/L	SW-846 6010C	P
Potassium	10.0	9.60	96	mg/L	SW-846 6010C	P
Selenium	0.500	0.478	96	mg/L	SW-846 6010C	P
Silicon	5.00	4.82	96	mg/L	SW-846 6010C	P
Silver	0.500	0.4744	95	mg/L	SW-846 6010C	P
Sodium	20.0	19.2	96	mg/L	SW-846 6010C	P
Strontium	0.500	0.479	96	mg/L	SW-846 6010C	P
Thallium	0.500	0.4848	97	mg/L	SW-846 6010C	P
Tin	0.500	0.4803	96	mg/L	SW-846 6010C	P
Titanium	0.500	0.4723	94	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4671	93	mg/L	SW-846 6010C	P
Zinc	0.500	0.4676	94	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4684	94	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1103

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	1.00	0.9692	97	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1129

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Barium	0.0100	0.00920	92	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1204

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4972	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1341

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.498	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1515

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.5026	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Calibration Source: 195-88-3 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 8
Date Analyzed: 05/27/11 Time: 1647

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.5008	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 8

Date Analyzed: 05/27/11 Time: 1810

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4991	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1136

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	1.00	0.9456	95	mg/L	SW-846 6010C	P
Sodium	10.0	9.60	96	mg/L	SW-846 6010C	P
Thallium	1.00	0.9488	95	mg/L	SW-846 6010C	P
Zinc	1.00	0.9151	92	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1203

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	0.00500	0.00470	94	mg/L	SW-846 6010C	P
Sodium	1.00	1.04	104	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0107	107	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0157	79	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1233

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	0.500	0.494	99	mg/L	SW-846 6010C	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.5193	104	mg/L	SW-846 6010C	P
Zinc	0.500	0.5021	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1404

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	0.500	0.5022	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.5355	107	mg/L	SW-846 6010C	P
Zinc	0.500	0.5141	103	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1527

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	0.500	0.4975	99	mg/L	SW-846 6010C	P
Sodium	20.0	20.3	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.530	106	mg/L	SW-846 6010C	P
Zinc	0.500	0.5079	102	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 17

Date Analyzed: 05/31/11 Time: 1627

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Beryllium	0.500	0.5006	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.7	103	mg/L	SW-846 6010C	P
Thallium	0.500	0.5391	108	mg/L	SW-846 6010C	P
Zinc	0.500	0.512	102	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-76-4 CPI Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/05/11 Time: 1046

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	103	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-76-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/05/11 Time: 1049

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	97	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-76-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/05/11 Time: 1108

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	103	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-76-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/05/11 Time: 1127

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00510	102	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-76-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/05/11 Time: 1146

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00510	101	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-12 CPI Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/16/11 Time: 1149

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	97	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/16/11 Time: 1153

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/16/11 Time: 1332

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/16/11 Time: 1351

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-12 CPI Instrument ID: FIMS1 ICAL ID: 11

Date Analyzed: 05/16/11 Time: 1149

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	97	mg/L	SW-846 7470A Dissolved	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 11

Date Analyzed: 05/16/11 Time: 1153

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Calibration Source: 195-83-11 EXAXOL
Instrument ID: FIMS1 ICAL ID: 11
Date Analyzed: 05/16/11 Time: 1411

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 11

Date Analyzed: 05/16/11 Time: 1433

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00550	110	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-86-4 CPI Instrument ID: FIMS1 ICAL ID: 3

Date Analyzed: 05/26/11 Time: 0909

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00470	95	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Calibration Source: 195-86-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 3
Date Analyzed: 05/26/11 Time: 0912

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	101	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-86-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 3

Date Analyzed: 05/26/11 Time: 1806

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	103	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-86-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 3

Date Analyzed: 05/26/11 Time: 1825

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	101	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-86-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 3

Date Analyzed: 05/26/11 Time: 1845

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	99	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Calibration Source: 195-86-3 EXAXOL Instrument ID: FIMS1 ICAL ID: 3

Date Analyzed: 05/26/11 Time: 1905

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	100	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: ICB ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 455988 [ICP/6864] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/10/11 Time: 1046

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.0040	B	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050..	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 4
Lab Sample DESC: CCB FOR HBN 455988 [ICP/6864]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/10/11 Time: 1130

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.0038	B	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.0034	B	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 455988 [ICP/6864]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/10/11 Time: 1304

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.0050	B	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.00023	B	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.0028	B	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: 944205
ICAL ID: 4
Lab Sample DESC: MB944205
Preparation Blank Matrix: (soil / water) Water
Instrument ID: ICP6
Date Analyzed: 05/10/11 Time: 1336

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	4.59	B	ug/L	2.53	10.0	SW-846 6010C	P
Barium	5.66	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C	P
Cadmium	0.49	B	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.70	B	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 455988 [ICP/6864]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/10/11 Time: 1427

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 455988 [ICP/6864]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/10/11 Time: 1551

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: ICB
ICAL ID: 5
Lab Sample DESC: ICB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1159

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 14

Lab Sample DESC: ICB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1159

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 5
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1254

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 14
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1254

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: 948869
ICAL ID: 14

Lab Sample DESC: MB948869
Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1301

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C Dissolved	P
Barium	1.90	B	ug/L	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium	0.46	B	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C Dissolved	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1431

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	0.32	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 14

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1431

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00014	B	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: 948867
ICAL ID: 5
Lab Sample DESC: MB948867
Preparation Blank Matrix: (soil / water) Water
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1505

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C	P
Barium	1.43	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1608

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	0.54	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 14

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1608

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 5
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1732

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	0.64	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 14

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1732

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: 944905 ICAL ID: 14

Lab Sample DESC: MB944905 Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 Date Analyzed: 05/24/11 Time: 1739

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C Dissolved	P
Barium	3.16	B	ug/L	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium	0.45	B	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C Dissolved	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C Dissolved	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 5
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1853

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	3.06		mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 14
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1853

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: 944933 ICAL ID: 5

Lab Sample DESC: MB944933 Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 Date Analyzed: 05/24/11 Time: 1949

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C	P
Barium	1.87	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	3.24	B	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 5
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2018

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	0.94	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 14

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2018

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2140

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	3.73		mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 14

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2140

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: ICB ICAL ID: 6

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: ICB ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: ICB ICAL ID: 11

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00030	B	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00015	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 6
Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00017	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00020	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

211050426 179

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2331

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2331

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00014	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2331

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/26/11 Time: 0057

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/26/11 Time: 0057

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00018	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/26/11 Time: 0057

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: ICB
ICAL ID: 7
Lab Sample DESC: ICB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1051

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 16

Lab Sample DESC: ICB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1051

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 7
Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1153

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.00076	B	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 16

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1153

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426

Lab Sample ID: CCB | ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 05/26/11 | Time: 1630

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 16

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1630

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: 949568 ICAL ID: 16

Lab Sample DESC: MB949568 Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 Date Analyzed: 05/26/11 Time: 1637

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C Dissolved	P
Barium	1.89	B	ug/L	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C Dissolved	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 7
Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1751

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.00022	B	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 16

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1751

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C Dissolved	P

FORM III - IN

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: 949576
ICAL ID: 7

Lab Sample DESC: MB949576
Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1758

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	11.0	B	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C	P
Barium	4.60	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.00011	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	128	B	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	0.0027	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1912

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.00027	B	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.00069	B	mg/L	0.00060	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 16

Lab Sample DESC: CCB FOR HBN 457201 [ICP/6894]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/26/11 Time: 1912

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 8

Lab Sample DESC: ICB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1121

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 8

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1224

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: CCB
ICAL ID: 8
Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1347

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 8

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1521

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 8

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1653

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 8

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1816

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 9

Lab Sample DESC: ICB FOR HBN 457428 [ICP/6901]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/31/11 Time: 1156

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 9

Lab Sample DESC: CCB FOR HBN 457428 [ICP/6901] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/31/11 Time: 1248

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 9

Lab Sample DESC: CCB FOR HBN 457428 [ICP/6901] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/31/11 Time: 1412

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Sodium	0.19	B	mg/L	0.051	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 9

Lab Sample DESC: CCB FOR HBN 457428 [ICP/6901] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/31/11 Time: 1535

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426

Lab Sample ID: CCB | ICAL ID: 9

Lab Sample DESC: CCB FOR HBN 457428 [ICP/6901] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 05/31/11 | Time: 1634

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: ICB
ICAL ID: 1
Lab Sample DESC: ICB FOR HBN 455716 [HG/4971]
Preparation Blank Matrix: (soil / water)
Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1047

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 455716 [HG/4971]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1050

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426
Lab Sample ID: 944211
ICAL ID: 1
Lab Sample DESC: MB944211
Preparation Blank Matrix: (soil / water) Water
Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1052

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 455716 [HG/4971]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1109

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 455716 [HG/4971]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1129

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 455716 [HG/4971]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/05/11 Time: 1148

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1151

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1154

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00011	B	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1333

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: 945531
ICAL ID: 2

Lab Sample DESC: MB945531
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1339

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1352

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

211050426 210

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: ICB
ICAL ID: 11

Lab Sample DESC: ICB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1151

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

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BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426

Lab Sample ID: CCB | ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980] | Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 | Date Analyzed: 05/16/11 | Time: 1154

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00011	B	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1413

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426

Lab Sample ID: 946277 | ICAL ID: 11

Lab Sample DESC: MB946277 | Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1 | Date Analyzed: 05/16/11 | Time: 1417

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A Dissolved	AV

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980] Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 Date Analyzed: 05/16/11 Time: 1434

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426

Lab Sample ID: ICB | ICAL ID: 3

Lab Sample DESC: ICB FOR HBN 457240 [HG/4993] | Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 | Date Analyzed: 05/26/11 | Time: 0910

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 457240 [HG/4993]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 0913

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 457240 [HG/4993]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1808

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: 949550
ICAL ID: 3

Lab Sample DESC: MB949550
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1809

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: 950607
ICAL ID: 3

Lab Sample DESC: MB950607
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1821

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 457240 [HG/4993]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1827

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 457240 [HG/4993]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1846

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050426

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 457240 [HG/4993]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/26/11 Time: 1906

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-84-3 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	182	183	92			
Antimony	0	1.00		1.02	102			
Arsenic	0	1.00		1.02	102			
Barium	0	0.5000		0.5063	101			
Beryllium	0	0.5000		0.5165	103			
Boron	0	1.00		0.9034	90			
Cadmium	0	1.00		0.9913	99			
Calcium	200	200	191	192	96			
Chromium	0	0.5000		0.5146	103			
Cobalt	0	0.5000		0.4753	95			
Copper	0	0.5000		0.5275	106			
Iron	200	200	191	192	96			
Lead	0	1.00		0.9985	100			
Magnesium	200	200	188	189	94			
Manganese	0	0.5000		0.5105	102			
Molybdenum	0	1.00		0.9868	99			
Nickel	0	1.00		0.9690	97			
Selenium	0	1.00		1.03	103			
Silver	0	1.00		1.07	107			
Sodium	0	1.00		1.08	108			
Thallium	0	1.00		1.04	104			
Vanadium	0	0.5000		0.4995	100			
Zinc	0	1.00		1.01	101			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	182	186	93			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.03	103			
Barium	0	0.5000		0.5058	101			
Beryllium	0	0.5000		0.5195	104			
Boron	0	1.00		0.9054	91			
Cadmium	0	1.00		0.9905	99			
Calcium	200	200	193	195	98			
Chromium	0	0.5000		0.5122	102			
Cobalt	0	0.5000		0.4796	96			
Copper	0	0.5000		0.5300	106			
Iron	200	200	193	196	98			
Lead	0	1.00		1.00	100			
Magnesium	200	200	190	193	96			
Manganese	0	0.5000		0.5114	102			
Molybdenum	0	1.00		0.9997	100			
Nickel	0	1.00		0.9659	97			
Selenium	0	1.00		1.02	102			
Silver	0	1.00		1.08	108			
Sodium	0	1.00		1.14	114			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.5000		0.4973	99			
Zinc	0	1.00		1.01	101			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	178	179	90			
Antimony	0	1.00		0.9992	100			
Arsenic	0	1.00		1.02	102			
Barium	0	0.5000		0.4867	97			
Beryllium	0	0.5000		0.4961	99			
Boron	0	1.00		0.8680	87			
Cadmium	0	1.00		0.9526	95			
Calcium	200	200	187	188	94			
Chromium	0	0.5000		0.4911	98			
Cobalt	0	0.5000		0.4588	92			
Copper	0	0.5000		0.5064	101			
Iron	200	200	187	189	94			
Lead	0	1.00		0.9600	96			
Magnesium	200	200	184	186	93			
Manganese	0	0.5000		0.4911	98			
Molybdenum	0	1.00		0.9571	96			
Nickel	0	1.00		0.9279	93			
Selenium	0	1.00		1.00	100			
Silver	0	1.00		1.04	104			
Sodium	0	1.00		1.08	108			
Thallium	0	1.00		1.03	103			
Vanadium	0	0.5000		0.4804	96			
Zinc	0	1.00		0.9646	96			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	187	187	94			
Antimony	0	1.00		1.04	104			
Arsenic	0	1.00		1.06	106			
Barium	0	0.5000		0.5003	100			
Beryllium	0	0.5000		0.5082	102			
Boron	0	1.00		0.9199	92			
Cadmium	0	1.00		0.9794	98			
Calcium	200	200	198	197	98			
Chromium	0	0.5000		0.5037	101			
Cobalt	0	0.5000		0.4817	96			
Copper	0	0.5000		0.5185	104			
Iron	200	200	197	197	98			
Lead	0	1.00		1.01	101			
Magnesium	200	200	195	195	98			
Manganese	0	0.5000		0.5073	101			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.9501	95			
Selenium	0	1.00		1.04	104			
Silver	0	1.00		1.07	107			
Sodium	0	1.00		0.3315	33			
Thallium	0	1.00		1.09	109			
Vanadium	0	0.5000		0.4873	97			
Zinc	0	1.00		0.9984	100			

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	200	194	97			
Antimony	0	1.00		1.12	112			
Arsenic	0	1.00		1.15	115			
Barium	0	0.5000		0.5457	109			
Beryllium	0	0.5000		0.5421	108			
Boron	0	1.00		0.9523	95			
Cadmium	0	1.00		1.07	107			
Calcium	200	200	215	208	104			
Chromium	0	0.5000		0.5450	109			
Cobalt	0	0.5000		0.5172	103			
Copper	0	0.5000		0.5565	111			
Iron	200	200	213	206	103			
Lead	0	1.00		1.09	109			
Magnesium	200	200	212	205	102			
Manganese	0	0.5000		0.5485	110			
Molybdenum	0	1.00		1.08	108			
Nickel	0	1.00		1.03	103			
Selenium	0	1.00		1.13	113			
Silver	0	1.00		1.16	116			
Sodium	0	1.00		1.14	114			
Thallium	0	1.00		1.18	118			
Vanadium	0	0.5000		0.5161	103			
Zinc	0	1.00		1.09	109			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-84-3 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	182	183	92			
Antimony	0	1.00		1.02	102			
Arsenic	0	1.00		1.02	102			
Barium	0	0.5000		0.5063	101			
Beryllium	0	0.5000		0.5165	103			
Boron	0	1.00		0.9034	90			
Cadmium	0	1.00		0.9913	99			
Calcium	200	200	191	192	96			
Chromium	0	0.5000		0.5146	103			
Cobalt	0	0.5000		0.4753	95			
Copper	0	0.5000		0.5275	106			
Iron	200	200	191	192	96			
Lead	0	1.00		0.9985	100			
Magnesium	200	200	188	189	94			
Manganese	0	0.5000		0.5105	102			
Molybdenum	0	1.00		0.9868	99			
Nickel	0	1.00		0.9690	97			
Selenium	0	1.00		1.03	103			
Silver	0	1.00		1.07	107			
Sodium	0	1.00		1.08	108			
Thallium	0	1.00		1.04	104			
Vanadium	0	0.5000		0.4995	100			
Zinc	0	1.00		1.01	101			

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-10 Method SW-846 6010B/7470A

SAMPLE NO. : 21105042608

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4940	99		80 - 120
Antimony	ug/L	500	0	511	102		80 - 120
Arsenic	ug/L	500	8.34	536	106		80 - 120
Barium	ug/L	500	124	630	101		80 - 120
Beryllium	ug/L	500	0	508	102		80 - 120
Cadmium	ug/L	500	.73	504	101		80 - 120
Calcium	ug/L	5000	53600	60000	129	N	80 - 120
Chromium	ug/L	500	0	499	100		80 - 120
Cobalt	ug/L	500	0	471	94		80 - 120
Copper	ug/L	500	12.3	495	96		80 - 120
Iron	ug/L	5000	0	5040	101		80 - 120
Lead	ug/L	500	1.54	505	101		80 - 120
Magnesium	ug/L	5000	40400	47300	138	N	80 - 120
Manganese	ug/L	500	0	504	101		80 - 120
Mercury	ug/L	5	0	5.65	113		80 - 120
Molybdenum	ug/L	500	3.77	514	102		80 - 120
Nickel	ug/L	500	0	456	91		80 - 120
Potassium	ug/L	10000	5950	16300	104		80 - 120
Selenium	ug/L	500	0	510	102		80 - 120
Silver	ug/L	500	0	501	100		80 - 120
Sodium	ug/L	20000	21100	41300	101		80 - 120
Thallium	ug/L	500	0	519	104		80 - 120
Titanium	ug/L	500	0	498	100		80 - 120
Vanadium	ug/L	500	68.8	571	100		80 - 120
Zinc	ug/L	500	3.3	500	99		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 2 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-10 Method SW-846 6010B/7470A

SAMPLE NO. : 21105042609

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4870	97		1		80 - 120	0 - 30
Antimony	ug/L	500	523	105		2		80 - 120	0 - 30
Arsenic	ug/L	500	544	107		2		80 - 120	0 - 30
Barium	ug/L	500	626	100		.8		80 - 120	0 - 30
Beryllium	ug/L	500	504	101		.8		80 - 120	0 - 30
Cadmium	ug/L	500	499	100		1		80 - 120	0 - 30
Calcium	ug/L	5000	59400	117		1		80 - 120	0 - 30
Chromium	ug/L	500	496	99		.7		80 - 120	0 - 30
Cobalt	ug/L	500	479	96		1		80 - 120	0 - 30
Copper	ug/L	500	490	96		1		80 - 120	0 - 30
Iron	ug/L	5000	4940	99		2		80 - 120	0 - 30
Lead	ug/L	500	513	102		2		80 - 120	0 - 30
Magnesium	ug/L	5000	46200	116		2		80 - 120	0 - 30
Manganese	ug/L	500	500	100		.8		80 - 120	0 - 30
Mercury	ug/L	5	5.29	106		7		80 - 120	0 - 30
Molybdenum	ug/L	500	524	104		2		80 - 120	0 - 30
Nickel	ug/L	500	463	93		1		80 - 120	0 - 30
Potassium	ug/L	10000	16200	102		.9		80 - 120	0 - 30
Selenium	ug/L	500	527	105		3		80 - 120	0 - 30
Silver	ug/L	500	499	100		.4		80 - 120	0 - 30
Sodium	ug/L	20000	41800	104		1		80 - 120	0 - 30
Thallium	ug/L	500	524	105		.9		80 - 120	0 - 30
Titanium	ug/L	500	497	99		.2		80 - 120	0 - 30
Vanadium	ug/L	500	565	99		1		80 - 120	0 - 30
Zinc	ug/L	500	531	106		6		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 2 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010B/7470A

SAMPLE NO. : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	276	5230	99		80 - 120
Antimony	ug/L	500	0	515	103		80 - 120
Arsenic	ug/L	500	0	517	103		80 - 120
Barium	ug/L	500	27.8	513	97		80 - 120
Beryllium	ug/L	500	0	496	99		80 - 120
Cadmium	ug/L	500	0	483	97		80 - 120
Calcium	ug/L	5000	49700	54200	90		80 - 120
Chromium	ug/L	500	8.54	483	95		80 - 120
Cobalt	ug/L	500	0	496	99		80 - 120
Copper	ug/L	500	14.3	517	101		80 - 120
Iron	ug/L	5000	204	5090	98		80 - 120
Lead	ug/L	500	0	484	97		80 - 120
Magnesium	ug/L	5000	48700	53100	87		80 - 120
Manganese	ug/L	500	12.6	503	98		80 - 120
Mercury	ug/L	5	0	4.78	96		80 - 120
Molybdenum	ug/L	500	4.94	513	102		80 - 120
Nickel	ug/L	500	2.96	494	98		80 - 120
Potassium	ug/L	10000	7780	18000	102		80 - 120
Selenium	ug/L	500	0	511	102		80 - 120
Silver	ug/L	500	0	492	98		80 - 120
Sodium	ug/L	20000	567000	594000	132	N	80 - 120
Thallium	ug/L	500	0	478	96		80 - 120
Titanium	ug/L	500	3.16	491	97		80 - 120
Vanadium	ug/L	500	61.1	562	100		80 - 120
Zinc	ug/L	500	2.74	507	101		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 3 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010B/7470A

SAMPLE NO. : 21105060812

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	5210	99		.5		80 - 120	0 - 30
Antimony	ug/L	500	508	102		1		80 - 120	0 - 30
Arsenic	ug/L	500	508	102		2		80 - 120	0 - 30
Barium	ug/L	500	515	97		.5		80 - 120	0 - 30
Beryllium	ug/L	500	498	100		.3		80 - 120	0 - 30
Cadmium	ug/L	500	484	97		.03		80 - 120	0 - 30
Calcium	ug/L	5000	54700	100		.9		80 - 120	0 - 30
Chromium	ug/L	500	485	95		.5		80 - 120	0 - 30
Cobalt	ug/L	500	488	98		2		80 - 120	0 - 30
Copper	ug/L	500	519	101		.3		80 - 120	0 - 30
Iron	ug/L	5000	5010	96		2		80 - 120	0 - 30
Lead	ug/L	500	478	96		1		80 - 120	0 - 30
Magnesium	ug/L	5000	52100	68	N	2		80 - 120	0 - 30
Manganese	ug/L	500	504	98		.2		80 - 120	0 - 30
Mercury	ug/L	5	4.8	96		.3		80 - 120	0 - 30
Molybdenum	ug/L	500	509	101		.7		80 - 120	0 - 30
Nickel	ug/L	500	487	97		1		80 - 120	0 - 30
Potassium	ug/L	10000	17800	100		1		80 - 120	0 - 30
Selenium	ug/L	500	499	100		2		80 - 120	0 - 30
Silver	ug/L	500	494	99		.4		80 - 120	0 - 30
Sodium	ug/L	20000	594000	131	N	.05		80 - 120	0 - 30
Thallium	ug/L	500	470	94		2		80 - 120	0 - 30
Titanium	ug/L	500	495	98		.9		80 - 120	0 - 30
Vanadium	ug/L	500	563	100		.3		80 - 120	0 - 30
Zinc	ug/L	500	509	101		.5		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 3 out of 50 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-14 Method SW-846 6010B/7470A

SAMPLE NO. : 21105042617

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	60.6	4930	97		80 - 120
Antimony	ug/L	500	0	521	104		80 - 120
Arsenic	ug/L	500	0	520	104		80 - 120
Barium	ug/L	500	15.3	500	97		80 - 120
Beryllium	ug/L	500	0	501	100		80 - 120
Cadmium	ug/L	500	0	494	99		80 - 120
Calcium	ug/L	5000	65900	75500	191	N	80 - 120
Chromium	ug/L	500	2.31	483	96		80 - 120
Cobalt	ug/L	500	0	497	99		80 - 120
Copper	ug/L	500	16.1	522	101		80 - 120
Iron	ug/L	5000	0	5010	100		80 - 120
Lead	ug/L	500	0	486	97		80 - 120
Magnesium	ug/L	5000	61800	70400	173	N	80 - 120
Manganese	ug/L	500	13.8	499	97		80 - 120
Mercury	ug/L	5	0	4.06	81		80 - 120
Molybdenum	ug/L	500	25.4	538	102		80 - 120
Nickel	ug/L	500	1.18	493	98		80 - 120
Potassium	ug/L	10000	11400	22600	112		80 - 120
Selenium	ug/L	500	26.3	542	103		80 - 120
Silver	ug/L	500	0	502	100		80 - 120
Sodium	ug/L	20000	628000	676000	244	N	80 - 120
Thallium	ug/L	500	0	478	96		80 - 120
Titanium	ug/L	500	0	495	99		80 - 120
Vanadium	ug/L	500	59	565	101		80 - 120
Zinc	ug/L	500	0	518	104		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 7 out of 50 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-14 Method SW-846 6010B/7470A

SAMPLE NO. : 21105042618

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4980	98		1		80 - 120	0 - 30
Antimony	ug/L	500	510	102		2		80 - 120	0 - 30
Arsenic	ug/L	500	519	104		.2		80 - 120	0 - 30
Barium	ug/L	500	500	97		.1		80 - 120	0 - 30
Beryllium	ug/L	500	498	100		.6		80 - 120	0 - 30
Cadmium	ug/L	500	491	98		.5		80 - 120	0 - 30
Calcium	ug/L	5000	76400	210	N	1		80 - 120	0 - 30
Chromium	ug/L	500	482	96		.2		80 - 120	0 - 30
Cobalt	ug/L	500	487	97		2		80 - 120	0 - 30
Copper	ug/L	500	521	101		.3		80 - 120	0 - 30
Iron	ug/L	5000	5060	101		1		80 - 120	0 - 30
Lead	ug/L	500	478	96		2		80 - 120	0 - 30
Magnesium	ug/L	5000	72400	213	N	3		80 - 120	0 - 30
Manganese	ug/L	500	497	97		.4		80 - 120	0 - 30
Mercury	ug/L	5	3.89	78	N	4		80 - 120	0 - 30
Molybdenum	ug/L	500	528	100		2		80 - 120	0 - 30
Nickel	ug/L	500	482	96		2		80 - 120	0 - 30
Potassium	ug/L	10000	23000	116		2		80 - 120	0 - 30
Selenium	ug/L	500	528	100		3		80 - 120	0 - 30
Silver	ug/L	500	498	100		.7		80 - 120	0 - 30
Sodium	ug/L	20000	695000	334	N	3		80 - 120	0 - 30
Thallium	ug/L	500	472	94		1		80 - 120	0 - 30
Titanium	ug/L	500	493	99		.5		80 - 120	0 - 30
Vanadium	ug/L	500	565	101		.009		80 - 120	0 - 30
Zinc	ug/L	500	516	103		.4		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 7 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWL6 Method SW-846 6010C

SAMPLE NO. : 949578

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	69.7	4970	98		80 - 120
Antimony	ug/L	500	0	509	102		80 - 120
Arsenic	ug/L	500	5.89	540	107		80 - 120
Barium	ug/L	500	24.1	509	97		80 - 120
Beryllium	ug/L	500	0	526	105		80 - 120
Cadmium	ug/L	500	0	479	96		80 - 120
Calcium	ug/L	5000	69200	78800	193	N	80 - 120
Chromium	ug/L	500	2.02	479	95		80 - 120
Cobalt	ug/L	500	1.74	472	94		80 - 120
Copper	ug/L	500	13.3	485	94		80 - 120
Iron	ug/L	5000	7450	12900	110		80 - 120
Lead	ug/L	500	2.5	485	96		80 - 120
Magnesium	ug/L	5000	33800	40600	135	N	80 - 120
Manganese	ug/L	500	265	778	102		80 - 120
Molybdenum	ug/L	500	0	500	100		80 - 120
Nickel	ug/L	500	1.09	459	92		80 - 120
Potassium	ug/L	10000	5470	15500	100		80 - 120
Selenium	ug/L	500	9.06	515	101		80 - 120
Silver	ug/L	500	0	494	99		80 - 120
Sodium	ug/L	20000	69600	91600	110		80 - 120
Thallium	ug/L	500	0	559	112		80 - 120
Titanium	ug/L	500	0	482	96		80 - 120
Vanadium	ug/L	500	69.9	567	99		80 - 120
Zinc	ug/L	500	93.6	629	107		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWL6 Method SW-846 6010C

SAMPLE NO. : 949579

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4900	97		1		80 - 120	0 - 30
Antimony	ug/L	500	511	102		.3		80 - 120	0 - 30
Arsenic	ug/L	500	533	106		1		80 - 120	0 - 30
Barium	ug/L	500	499	95		2		80 - 120	0 - 30
Beryllium	ug/L	500	514	103		2		80 - 120	0 - 30
Cadmium	ug/L	500	470	94		2		80 - 120	0 - 30
Calcium	ug/L	5000	76800	152	N	3		80 - 120	0 - 30
Chromium	ug/L	500	468	93		2		80 - 120	0 - 30
Cobalt	ug/L	500	466	93		1		80 - 120	0 - 30
Copper	ug/L	500	475	92		2		80 - 120	0 - 30
Iron	ug/L	5000	12700	105		2		80 - 120	0 - 30
Lead	ug/L	500	483	96		.5		80 - 120	0 - 30
Magnesium	ug/L	5000	40100	126	N	1		80 - 120	0 - 30
Manganese	ug/L	500	762	99		2		80 - 120	0 - 30
Molybdenum	ug/L	500	504	101		.9		80 - 120	0 - 30
Nickel	ug/L	500	455	91		1		80 - 120	0 - 30
Potassium	ug/L	10000	15400	99		.3		80 - 120	0 - 30
Selenium	ug/L	500	516	101		.09		80 - 120	0 - 30
Silver	ug/L	500	484	97		2		80 - 120	0 - 30
Sodium	ug/L	20000	91300	108		.3		80 - 120	0 - 30
Thallium	ug/L	500	537	107		4		80 - 120	0 - 30
Titanium	ug/L	500	481	96		.3		80 - 120	0 - 30
Vanadium	ug/L	500	553	97		2		80 - 120	0 - 30
Zinc	ug/L	500	613	104		3		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-10 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105042608

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4670	93		80 - 120
Antimony	ug/L	500	0	501	100		80 - 120
Arsenic	ug/L	500	7.83	522	103		80 - 120
Barium	ug/L	500	123	596	95		80 - 120
Beryllium	ug/L	500	0	487	97		80 - 120
Cadmium	ug/L	500	.86	480	96		80 - 120
Calcium	ug/L	5000	54300	57100	56	N	80 - 120
Chromium	ug/L	500	1.07	474	95		80 - 120
Cobalt	ug/L	500	0	459	92		80 - 120
Copper	ug/L	500	12.2	468	91		80 - 120
Iron	ug/L	5000	0	4690	94		80 - 120
Lead	ug/L	500	2.43	495	99		80 - 120
Magnesium	ug/L	5000	40500	43300	55	N	80 - 120
Manganese	ug/L	500	0	480	96		80 - 120
Mercury	ug/L	5	.0921	5.58	110		80 - 120
Molybdenum	ug/L	500	4.87	497	98		80 - 120
Nickel	ug/L	500	0	444	89		80 - 120
Potassium	ug/L	10000	6090	15100	91		80 - 120
Selenium	ug/L	500	0	505	101		80 - 120
Silver	ug/L	500	0	481	96		80 - 120
Sodium	ug/L	20000	21500	39100	88		80 - 120
Thallium	ug/L	500	0	493	99		80 - 120
Titanium	ug/L	500	0	475	95		80 - 120
Vanadium	ug/L	500	69.8	545	95		80 - 120
Zinc	ug/L	500	4.86	480	95		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-10 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105042609

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4830	97		3		80 - 120	0 - 30
Antimony	ug/L	500	510	102		2		80 - 120	0 - 30
Arsenic	ug/L	500	538	106		3		80 - 120	0 - 30
Barium	ug/L	500	620	99		4		80 - 120	0 - 30
Beryllium	ug/L	500	503	101		3		80 - 120	0 - 30
Cadmium	ug/L	500	494	99		3		80 - 120	0 - 30
Calcium	ug/L	5000	60600	126	N	6		80 - 120	0 - 30
Chromium	ug/L	500	486	97		3		80 - 120	0 - 30
Cobalt	ug/L	500	471	94		3		80 - 120	0 - 30
Copper	ug/L	500	484	94		3		80 - 120	0 - 30
Iron	ug/L	5000	4890	98		4		80 - 120	0 - 30
Lead	ug/L	500	501	100		1		80 - 120	0 - 30
Magnesium	ug/L	5000	47000	130	N	8		80 - 120	0 - 30
Manganese	ug/L	500	495	99		3		80 - 120	0 - 30
Mercury	ug/L	5	5.3	104		5		80 - 120	0 - 30
Molybdenum	ug/L	500	506	100		2		80 - 120	0 - 30
Nickel	ug/L	500	456	91		3		80 - 120	0 - 30
Potassium	ug/L	10000	16300	102		7		80 - 120	0 - 30
Selenium	ug/L	500	519	104		3		80 - 120	0 - 30
Silver	ug/L	500	496	99		3		80 - 120	0 - 30
Sodium	ug/L	20000	41100	98		5		80 - 120	0 - 30
Thallium	ug/L	500	503	101		2		80 - 120	0 - 30
Titanium	ug/L	500	486	97		2		80 - 120	0 - 30
Vanadium	ug/L	500	565	99		4		80 - 120	0 - 30
Zinc	ug/L	500	495	98		3		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	105	5040	99		80 - 120
Antimony	ug/L	500	0	535	107		80 - 120
Arsenic	ug/L	500	0	552	110		80 - 120
Barium	ug/L	500	18	524	101		80 - 120
Beryllium	ug/L	500	0	522	104		80 - 120
Cadmium	ug/L	500	0	511	102		80 - 120
Calcium	ug/L	5000	50800	56100	105		80 - 120
Chromium	ug/L	500	2.24	498	99		80 - 120
Cobalt	ug/L	500	0	512	102		80 - 120
Copper	ug/L	500	13.4	535	104		80 - 120
Iron	ug/L	5000	46.6	5030	100		80 - 120
Lead	ug/L	500	0	501	100		80 - 120
Magnesium	ug/L	5000	50100	54200	82		80 - 120
Manganese	ug/L	500	2.16	515	103		80 - 120
Mercury	ug/L	5	0	4.66	93		80 - 120
Molybdenum	ug/L	500	5.66	526	104		80 - 120
Nickel	ug/L	500	0	507	101		80 - 120
Potassium	ug/L	10000	7880	18200	104		80 - 120
Selenium	ug/L	500	0	540	108		80 - 120
Silver	ug/L	500	0	518	104		80 - 120
Sodium	ug/L	20000	588000	620000	158	N	80 - 120
Thallium	ug/L	500	0	498	100		80 - 120
Titanium	ug/L	500	1.53	507	101		80 - 120
Vanadium	ug/L	500	58.3	581	105		80 - 120
Zinc	ug/L	500	0	532	106		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105060812

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4850	95		4		80 - 120	0 - 30
Antimony	ug/L	500	518	104		3		80 - 120	0 - 30
Arsenic	ug/L	500	518	104		6		80 - 120	0 - 30
Barium	ug/L	500	496	96		5		80 - 120	0 - 30
Beryllium	ug/L	500	495	99		5		80 - 120	0 - 30
Cadmium	ug/L	500	483	97		6		80 - 120	0 - 30
Calcium	ug/L	5000	54000	64	N	4		80 - 120	0 - 30
Chromium	ug/L	500	474	94		5		80 - 120	0 - 30
Cobalt	ug/L	500	490	98		4		80 - 120	0 - 30
Copper	ug/L	500	509	99		5		80 - 120	0 - 30
Iron	ug/L	5000	4870	96		3		80 - 120	0 - 30
Lead	ug/L	500	478	96		5		80 - 120	0 - 30
Magnesium	ug/L	5000	53200	63	N	2		80 - 120	0 - 30
Manganese	ug/L	500	488	97		5		80 - 120	0 - 30
Mercury	ug/L	5	4.8	96		3		80 - 120	0 - 30
Molybdenum	ug/L	500	510	101		3		80 - 120	0 - 30
Nickel	ug/L	500	486	97		4		80 - 120	0 - 30
Potassium	ug/L	10000	17800	99		2		80 - 120	0 - 30
Selenium	ug/L	500	514	103		5		80 - 120	0 - 30
Silver	ug/L	500	491	98		5		80 - 120	0 - 30
Sodium	ug/L	20000	585000	-20	N	6		80 - 120	0 - 30
Thallium	ug/L	500	477	95		4		80 - 120	0 - 30
Titanium	ug/L	500	486	97		4		80 - 120	0 - 30
Vanadium	ug/L	500	553	99		5		80 - 120	0 - 30
Zinc	ug/L	500	506	101		5		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-14 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105042617

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4710	94		80 - 120
Antimony	ug/L	500	0	514	103		80 - 120
Arsenic	ug/L	500	3.99	519	103		80 - 120
Barium	ug/L	500	11.9	493	96		80 - 120
Beryllium	ug/L	500	0	494	99		80 - 120
Cadmium	ug/L	500	0	488	98		80 - 120
Calcium	ug/L	5000	66700	75600	178	N	80 - 120
Chromium	ug/L	500	1.98	472	94		80 - 120
Cobalt	ug/L	500	0	484	97		80 - 120
Copper	ug/L	500	14.5	512	100		80 - 120
Iron	ug/L	5000	0	4790	96		80 - 120
Lead	ug/L	500	0	475	95		80 - 120
Magnesium	ug/L	5000	62400	69900	150	N	80 - 120
Manganese	ug/L	500	0	486	97		80 - 120
Mercury	ug/L	5	0	4.01	80		80 - 120
Molybdenum	ug/L	500	26	520	99		80 - 120
Nickel	ug/L	500	0	481	96		80 - 120
Potassium	ug/L	10000	11400	21900	105		80 - 120
Selenium	ug/L	500	23.3	531	101		80 - 120
Silver	ug/L	500	0	495	99		80 - 120
Sodium	ug/L	20000	633000	682000	248	N	80 - 120
Thallium	ug/L	500	0	465	93		80 - 120
Titanium	ug/L	500	0	480	96		80 - 120
Vanadium	ug/L	500	58.1	554	99		80 - 120
Zinc	ug/L	500	0	511	102		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 26 outside limits

Spike Recovery: 6 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWQ-14 Method SW-846 6010B/7470A Dissolved

SAMPLE NO. : 21105042618

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4700	94		.08		80 - 120	0 - 30
Antimony	ug/L	500	514	103		.2		80 - 120	0 - 30
Arsenic	ug/L	500	526	104		1		80 - 120	0 - 30
Barium	ug/L	500	495	97		.5		80 - 120	0 - 30
Beryllium	ug/L	500	495	99		.2		80 - 120	0 - 30
Cadmium	ug/L	500	494	99		1		80 - 120	0 - 30
Calcium	ug/L	5000	74900	164	N	.9		80 - 120	0 - 30
Chromium	ug/L	500	474	94		.4		80 - 120	0 - 30
Cobalt	ug/L	500	491	98		1		80 - 120	0 - 30
Copper	ug/L	500	508	99		.9		80 - 120	0 - 30
Iron	ug/L	5000	4850	97		1		80 - 120	0 - 30
Lead	ug/L	500	483	97		2		80 - 120	0 - 30
Magnesium	ug/L	5000	70700	167	N	1		80 - 120	0 - 30
Manganese	ug/L	500	488	98		.4		80 - 120	0 - 30
Mercury	ug/L	5	4.15	83		4		80 - 120	0 - 30
Molybdenum	ug/L	500	528	100		1		80 - 120	0 - 30
Nickel	ug/L	500	488	98		1		80 - 120	0 - 30
Potassium	ug/L	10000	21800	104		.5		80 - 120	0 - 30
Selenium	ug/L	500	548	105		3		80 - 120	0 - 30
Silver	ug/L	500	489	98		1		80 - 120	0 - 30
Sodium	ug/L	20000	677000	221	N	.8		80 - 120	0 - 30
Thallium	ug/L	500	472	94		1		80 - 120	0 - 30
Titanium	ug/L	500	481	96		.06		80 - 120	0 - 30
Vanadium	ug/L	500	558	100		.8		80 - 120	0 - 30
Zinc	ug/L	500	510	102		.09		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 26 outside limits

Spike Recovery: 6 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWL6 Method SW-846 6010B Dissolved

SAMPLE NO. : 949570

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4990	100		80 - 120
Antimony	ug/L	500	0	519	104		80 - 120
Arsenic	ug/L	500	3.95	563	112		80 - 120
Barium	ug/L	500	20.8	514	99		80 - 120
Beryllium	ug/L	500	0	508	102		80 - 120
Cadmium	ug/L	500	0	492	98		80 - 120
Calcium	ug/L	5000	69200	80100	219	N	80 - 120
Chromium	ug/L	500	0	481	96		80 - 120
Cobalt	ug/L	500	0	481	96		80 - 120
Copper	ug/L	500	9.01	481	94		80 - 120
Iron	ug/L	5000	566	5670	102		80 - 120
Lead	ug/L	500	1.9	500	100		80 - 120
Magnesium	ug/L	5000	33700	42500	176	N	80 - 120
Manganese	ug/L	500	158	675	104		80 - 120
Molybdenum	ug/L	500	0	510	102		80 - 120
Nickel	ug/L	500	0	466	93		80 - 120
Potassium	ug/L	10000	5560	16000	105		80 - 120
Selenium	ug/L	500	8.02	543	107		80 - 120
Silver	ug/L	500	0	504	101		80 - 120
Sodium	ug/L	20000	67800	97300	147	N	80 - 120
Thallium	ug/L	500	0	566	113		80 - 120
Titanium	ug/L	500	0	487	97		80 - 120
Vanadium	ug/L	500	59.3	560	100		80 - 120
Zinc	ug/L	500	4.65	497	98		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWL6 Method SW-846 6010B Dissolved

SAMPLE NO. : 949571

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4720	94		6		80 - 120	0 - 30
Antimony	ug/L	500	494	99		5		80 - 120	0 - 30
Arsenic	ug/L	500	526	104		7		80 - 120	0 - 30
Barium	ug/L	500	487	93		5		80 - 120	0 - 30
Beryllium	ug/L	500	483	97		5		80 - 120	0 - 30
Cadmium	ug/L	500	466	93		5		80 - 120	0 - 30
Calcium	ug/L	5000	72600	69	N	10		80 - 120	0 - 30
Chromium	ug/L	500	457	91		5		80 - 120	0 - 30
Cobalt	ug/L	500	454	91		6		80 - 120	0 - 30
Copper	ug/L	500	459	90		5		80 - 120	0 - 30
Iron	ug/L	5000	5340	96		6		80 - 120	0 - 30
Lead	ug/L	500	472	94		6		80 - 120	0 - 30
Magnesium	ug/L	5000	38400	93		10		80 - 120	0 - 30
Manganese	ug/L	500	631	95		7		80 - 120	0 - 30
Molybdenum	ug/L	500	487	97		5		80 - 120	0 - 30
Nickel	ug/L	500	441	88		5		80 - 120	0 - 30
Potassium	ug/L	10000	15000	94		7		80 - 120	0 - 30
Selenium	ug/L	500	512	101		6		80 - 120	0 - 30
Silver	ug/L	500	481	96		5		80 - 120	0 - 30
Sodium	ug/L	20000	87000	96		11		80 - 120	0 - 30
Thallium	ug/L	500	532	106		6		80 - 120	0 - 30
Titanium	ug/L	500	468	94		4		80 - 120	0 - 30
Vanadium	ug/L	500	530	94		5		80 - 120	0 - 30
Zinc	ug/L	500	473	94		5		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426

Matrix Spike - EPA Sample No: MWL6 Method SW-846 7470A

SAMPLE NO. : 949552

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Mercury	ug/L	5	0	5.62	112		80 - 120

SAMPLE NO. : 949553

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*#*	*% RPD*	*#*	*QC. LIMITS REC*	*RPD*
Mercury	ug/L	5	5.58	112		.6		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-10PDS

Lab Code: LA024 Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 945576

Orig Lab Sample ID: 21105042607

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5150		0	U	5000	103		ug/L	SW-846 6010C	P
Antimony	75	125	528		0	U	500	106		ug/L	SW-846 6010C	P
Arsenic	75	125	565		8.34	B	500	111		ug/L	SW-846 6010C	P
Barium	75	125	641		124		500	103		ug/L	SW-846 6010C	P
Beryllium	75	125	522		0	U	500	104		ug/L	SW-846 6010C	P
Cadmium	75	125	519		.73	B	500	104		ug/L	SW-846 6010C	P
Calcium	75	125	58500		53600		5000	98		ug/L	SW-846 6010C	P
Chromium	75	125	516		0	U	500	103		ug/L	SW-846 6010C	P
Cobalt	75	125	495		0	U	500	99		ug/L	SW-846 6010C	P
Copper	75	125	509		12.3		500	99		ug/L	SW-846 6010C	P
Iron	75	125	5210		0	U	5000	104		ug/L	SW-846 6010C	P
Lead	75	125	533		1.54	B	500	106		ug/L	SW-846 6010C	P
Magnesium	75	125	46000		40400		5000	111		ug/L	SW-846 6010C	P
Manganese	75	125	519		0	U	500	104		ug/L	SW-846 6010C	P
Molybdenum	75	125	532		3.77	B	500	106		ug/L	SW-846 6010C	P
Nickel	75	125	479		0	U	500	96		ug/L	SW-846 6010C	P
Potassium	75	125	16100		5950		10000	101		ug/L	SW-846 6010C	P
Selenium	75	125	539		0	U	500	108		ug/L	SW-846 6010C	P
Silver	75	125	517		0	U	500	103		ug/L	SW-846 6010C	P
Sodium	75	125	41800		21100		20000	103		ug/L	SW-846 6010C	P
Thallium	75	125	545		0	U	500	109		ug/L	SW-846 6010C	P
Titanium	75	125	507		0	U	500	101		ug/L	SW-846 6010C	P
Vanadium	75	125	583		68.8		500	103		ug/L	SW-846 6010C	P
Zinc	75	125	524		3.3	B	500	104		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-14PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 950660

Orig Lab Sample ID: 21105042616

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5110		60.6	B	5000	101		ug/L	SW-846 6010C	P
Antimony	75	125	526		0	U	500	105		ug/L	SW-846 6010C	P
Arsenic	75	125	546		0	U	500	109		ug/L	SW-846 6010C	P
Beryllium	75	125	521		0	U	500	104		ug/L	SW-846 6010C	P
Cadmium	75	125	514		0	U	500	103		ug/L	SW-846 6010C	P
Calcium	75	125	70000		65900		5000	82		ug/L	SW-846 6010C	P
Chromium	75	125	503		2.31	B	500	100		ug/L	SW-846 6010C	P
Cobalt	75	125	519		0	U	500	104		ug/L	SW-846 6010C	P
Copper	75	125	543		16.1		500	105		ug/L	SW-846 6010C	P
Iron	75	125	5240		0	U	5000	105		ug/L	SW-846 6010C	P
Lead	75	125	508		0	U	500	102		ug/L	SW-846 6010C	P
Magnesium	75	125	66700		61800		5000	99		ug/L	SW-846 6010C	P
Manganese	75	125	520		13.8	B	500	101		ug/L	SW-846 6010C	P
Molybdenum	75	125	541		25.4	B	500	103		ug/L	SW-846 6010C	P
Nickel	75	125	516		1.18	B	500	103		ug/L	SW-846 6010C	P
Potassium	75	125	22400		11400		10000	109		ug/L	SW-846 6010C	P
Selenium	75	125	559		26.3	B	500	107		ug/L	SW-846 6010C	P
Silver	75	125	509		0	U	500	102		ug/L	SW-846 6010C	P
Thallium	75	125	496		0	U	500	99		ug/L	SW-846 6010C	P
Titanium	75	125	498		0	U	500	100		ug/L	SW-846 6010C	P
Vanadium	75	125	588		59		500	106		ug/L	SW-846 6010C	P
Zinc	75	125	548		0	U	500	110		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-14PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Lab Sample ID: 951635
Orig Lab Sample ID: 21105042616

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium	75	125	716000		628000		100000	88		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-18PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Lab Sample ID: 952395
Orig Lab Sample ID: 21105042615

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Barium	75	125	536		35.6		500	100		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW001PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 950673

Orig Lab Sample ID: 21105060810

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5700		276		5000	109		ug/L	SW-846 6010C	P
Antimony	75	125	528		0	U	500	106		ug/L	SW-846 6010C	P
Arsenic	75	125	538		0	U	500	108		ug/L	SW-846 6010C	P
Beryllium	75	125	525		0	U	500	105		ug/L	SW-846 6010C	P
Cadmium	75	125	511		0	U	500	102		ug/L	SW-846 6010C	P
Calcium	75	125	54100		49700		5000	87		ug/L	SW-846 6010C	P
Chromium	75	125	516		8.54	B	500	101		ug/L	SW-846 6010C	P
Cobalt	75	125	518		0	U	500	104		ug/L	SW-846 6010C	P
Copper	75	125	547		14.3		500	107		ug/L	SW-846 6010C	P
Iron	75	125	5430		204		5000	104		ug/L	SW-846 6010C	P
Lead	75	125	504		0	U	500	101		ug/L	SW-846 6010C	P
Magnesium	75	125	52800		48700		5000	81		ug/L	SW-846 6010C	P
Manganese	75	125	535		12.6	B	500	104		ug/L	SW-846 6010C	P
Molybdenum	75	125	530		4.94	B	500	105		ug/L	SW-846 6010C	P
Nickel	75	125	517		2.96	B	500	103		ug/L	SW-846 6010C	P
Potassium	75	125	18700		7780		10000	109		ug/L	SW-846 6010C	P
Selenium	75	125	533		0	U	500	107		ug/L	SW-846 6010C	P
Silver	75	125	515		0	U	500	103		ug/L	SW-846 6010C	P
Thallium	75	125	499		0	U	500	100		ug/L	SW-846 6010C	P
Titanium	75	125	532		3.16	B	500	106		ug/L	SW-846 6010C	P
Vanadium	75	125	591		61.1		500	106		ug/L	SW-846 6010C	P
Zinc	75	125	551		2.74	B	500	110		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO2MW001DPDS

Lab Code: LA024 Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 952397

Orig Lab Sample ID: 21105060801

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Barium	75	125	536		19.8		500	103		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWL6PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 951263

Orig Lab Sample ID: 21105190401

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5050		69.7	B	5000	100		ug/L	SW-846 6010C	P
Antimony	75	125	505		0	U	500	101		ug/L	SW-846 6010C	P
Arsenic	75	125	532		5.89	B	500	105		ug/L	SW-846 6010C	P
Barium	75	125	502		24.1		500	96		ug/L	SW-846 6010C	P
Cadmium	75	125	475		0	U	500	95		ug/L	SW-846 6010C	P
Calcium	75	125	73400		69200		5000	84		ug/L	SW-846 6010C	P
Chromium	75	125	475		2.02	B	500	95		ug/L	SW-846 6010C	P
Cobalt	75	125	466		1.74	B	500	93		ug/L	SW-846 6010C	P
Copper	75	125	480		13.3		500	93		ug/L	SW-846 6010C	P
Iron	75	125	12700		7450		5000	105		ug/L	SW-846 6010C	P
Lead	75	125	483		2.5	B	500	96		ug/L	SW-846 6010C	P
Magnesium	75	125	39800		33800		5000	120		ug/L	SW-846 6010C	P
Manganese	75	125	752		265		500	97		ug/L	SW-846 6010C	P
Molybdenum	75	125	497		0	U	500	99		ug/L	SW-846 6010C	P
Nickel	75	125	454		1.09	B	500	91		ug/L	SW-846 6010C	P
Potassium	75	125	15600		5470		10000	102		ug/L	SW-846 6010C	P
Selenium	75	125	517		9.06	B	500	102		ug/L	SW-846 6010C	P
Silver	75	125	474		0	U	500	95		ug/L	SW-846 6010C	P
Sodium	75	125	88700		69600		20000	95		ug/L	SW-846 6010C	P
Titanium	75	125	479		0	U	500	96		ug/L	SW-846 6010C	P
Vanadium	75	125	555		69.9		500	97		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWL6PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Lab Sample ID: 952212
Orig Lab Sample ID: 21105190401

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Beryllium	75	125	534		0	U	500	107		ug/L	SW-846 6010C	P
Thallium	75	125	565		0	U	500	113		ug/L	SW-846 6010C	P
Zinc	75	125	644		93.6		500	110		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-10PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 945578

Orig Lab Sample ID: 21105042607

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5180		0	U	5000	104		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	541		0	U	500	108		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	565		7.83	B	500	111		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	636		123		500	103		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	520		0	U	500	104		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	513		.86	B	500	102		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	61000		54300		5000	134		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	513		1.07	B	500	102		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	497		0	U	500	99		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	503		12.2		500	98		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5200		0	U	5000	104		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	529		2.43	B	500	105		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	47000		40500		5000	129		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	515		0	U	500	103		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	534		4.87	B	500	106		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	482		0	U	500	96		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	17100		6090		10000	110		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	548		0	U	500	110		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Sodium (Dissolved)	75	125	43300		21500		20000	109		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	539		0	U	500	108		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	506		0	U	500	101		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	583		69.8		500	103		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	521		4.86	B	500	103		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-14PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 950657

Orig Lab Sample ID: 21105042616

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	4970		0	U	5000	99		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	551		0	U	500	110		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	561		3.99	B	500	111		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	525		11.9		500	103		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	526		0	U	500	105		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	526		0	U	500	105		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	72200		66700		5000	109		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	505		1.98	B	500	101		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	529		0	U	500	106		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	537		14.5		500	104		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5130		0	U	5000	103		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	522		0	U	500	104		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	67400		62400		5000	100		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	521		0	U	500	104		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	560		26	B	500	107		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	526		0	U	500	105		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	21700		11400		10000	104		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	588		23.3	B	500	113		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	512		0	U	500	102		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	515		0	U	500	103		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	509		0	U	500	102		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	589		58.1		500	106		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	551		0	U	500	110		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWQ-14PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 951633

Orig Lab Sample ID: 21105042616

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium (Dissolved)	75	125	707000		633000		100000	75		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL | Sample ID: MAO1MW001PDS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | Lab Sample ID: 950675

Orig Lab Sample ID: 21105060810

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5190		105	B	5000	102		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	544		0	U	500	109		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	564		0	U	500	113		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	535		18		500	103		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	533		0	U	500	107		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	525		0	U	500	105		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	55500		50800		5000	95		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	511		2.24	B	500	102		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	530		0	U	500	106		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	547		13.4		500	107		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5230		46.6	B	5000	104		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	515		0	U	500	103		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	54600		50100		5000	90		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	528		2.16	B	500	105		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	535		5.66	B	500	106		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	524		0	U	500	105		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	18700		7880		10000	108		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	560		0	U	500	112		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	522		0	U	500	104		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	516		1.53	B	500	103		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	593		58.3		500	107		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	560		0	U	500	112		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWL6PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Lab Sample ID: 951265
Orig Lab Sample ID: 21105190401

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	4780		0	U	5000	96		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	503		0	U	500	101		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	536		3.95	B	500	106		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	491		20.8		500	94		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	485		0	U	500	97		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	470		0	U	500	94		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	73000		69200		5000	76		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	465		0	U	500	93		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	457		0	U	500	91		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	463		9.01	B	500	91		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5360		566		5000	96		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	474		1.9	B	500	94		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	38300		33700		5000	92		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	636		158		500	96		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	491		0	U	500	98		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	443		0	U	500	89		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	15100		5560		10000	95		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	517		8.02	B	500	102		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	471		0	U	500	94		ug/L	-846 6010C Disso	P
Sodium (Dissolved)	75	125	89800		67800		20000	110		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	475		0	U	500	95		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	535		59.3		500	95		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	486		4.65	B	500	96		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MWL6PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Lab Sample ID: 952210

Orig Lab Sample ID: 21105190401

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Thallium (Dissolved)	75	125	566		0	U	500	113		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944206
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 944206
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4780	96	80	120	ug/L	SW-846 6010C	P
Antimony	500	488	98	80	120	ug/L	SW-846 6010C	P
Arsenic	500	504	101	80	120	ug/L	SW-846 6010C	P
Barium	500	497	99	80	120	ug/L	SW-846 6010C	P
Beryllium	500	483	97	80	120	ug/L	SW-846 6010C	P
Cadmium	500	493	99	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4940	99	80	120	ug/L	SW-846 6010C	P
Chromium	500	487	97	80	120	ug/L	SW-846 6010C	P
Cobalt	500	495	99	80	120	ug/L	SW-846 6010C	P
Copper	500	484	97	80	120	ug/L	SW-846 6010C	P
Iron	5000	4890	98	80	120	ug/L	SW-846 6010C	P
Lead	500	503	101	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4930	99	80	120	ug/L	SW-846 6010C	P
Manganese	500	491	98	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	493	99	80	120	ug/L	SW-846 6010C	P
Nickel	500	483	97	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9870	99	80	120	ug/L	SW-846 6010C	P
Selenium	500	497	99	80	120	ug/L	SW-846 6010C	P
Silver	500	483	97	80	120	ug/L	SW-846 6010C	P
Sodium	20000	19200	96	80	120	ug/L	SW-846 6010C	P
Thallium	500	508	102	80	120	ug/L	SW-846 6010C	P
Titanium	500	483	97	80	120	ug/L	SW-846 6010C	P
Vanadium	500	483	97	80	120	ug/L	SW-846 6010C	P
Zinc	500	488	98	80	120	ug/L	SW-846 6010C	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944934

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 944934
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4700	94	80	120	ug/L	SW-846 6010C	P
Antimony	500	463	93	80	120	ug/L	SW-846 6010C	P
Arsenic	500	455	91	80	120	ug/L	SW-846 6010C	P
Barium	500	479	96	80	120	ug/L	SW-846 6010C	P
Beryllium	500	466	93	80	120	ug/L	SW-846 6010C	P
Cadmium	500	466	93	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4640	93	80	120	ug/L	SW-846 6010C	P
Chromium	500	473	95	80	120	ug/L	SW-846 6010C	P
Cobalt	500	468	94	80	120	ug/L	SW-846 6010C	P
Copper	500	471	94	80	120	ug/L	SW-846 6010C	P
Iron	5000	4610	92	80	120	ug/L	SW-846 6010C	P
Lead	500	467	93	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4590	92	80	120	ug/L	SW-846 6010C	P
Manganese	500	474	95	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	474	95	80	120	ug/L	SW-846 6010C	P
Nickel	500	477	95	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9480	95	80	120	ug/L	SW-846 6010C	P
Selenium	500	464	93	80	120	ug/L	SW-846 6010C	P
Silver	500	470	94	80	120	ug/L	SW-846 6010C	P
Sodium	20000	18100	91	80	120	ug/L	SW-846 6010C	P
Thallium	500	466	93	80	120	ug/L	SW-846 6010C	P
Titanium	500	479	96	80	120	ug/L	SW-846 6010C	P
Vanadium	500	468	94	80	120	ug/L	SW-846 6010C	P
Zinc	500	467	93	80	120	ug/L	SW-846 6010C	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS948868
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 948868
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4850	97	80	120	ug/L	SW-846 6010C	P
Antimony	500	470	94	80	120	ug/L	SW-846 6010C	P
Arsenic	500	474	95	80	120	ug/L	SW-846 6010C	P
Barium	500	487	97	80	120	ug/L	SW-846 6010C	P
Beryllium	500	478	96	80	120	ug/L	SW-846 6010C	P
Cadmium	500	481	96	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4810	96	80	120	ug/L	SW-846 6010C	P
Chromium	500	484	97	80	120	ug/L	SW-846 6010C	P
Cobalt	500	478	96	80	120	ug/L	SW-846 6010C	P
Copper	500	481	96	80	120	ug/L	SW-846 6010C	P
Iron	5000	4830	97	80	120	ug/L	SW-846 6010C	P
Lead	500	477	95	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4840	97	80	120	ug/L	SW-846 6010C	P
Manganese	500	484	97	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	477	95	80	120	ug/L	SW-846 6010C	P
Nickel	500	490	98	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9720	97	80	120	ug/L	SW-846 6010C	P
Selenium	500	479	96	80	120	ug/L	SW-846 6010C	P
Silver	500	482	96	80	120	ug/L	SW-846 6010C	P
Sodium	20000	20500	102	80	120	ug/L	SW-846 6010C	P
Thallium	500	477	95	80	120	ug/L	SW-846 6010C	P
Titanium	500	485	97	80	120	ug/L	SW-846 6010C	P
Vanadium	500	478	96	80	120	ug/L	SW-846 6010C	P
Zinc	500	479	96	80	120	ug/L	SW-846 6010C	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS949577

Lab Code: LA024 Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Lab Sample ID: 949577
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4790	96	80	120	ug/L	SW-846 6010C	P
Antimony	500	457	91	80	120	ug/L	SW-846 6010C	P
Arsenic	500	478	96	80	120	ug/L	SW-846 6010C	P
Barium	500	469	94	80	120	ug/L	SW-846 6010C	P
Beryllium	500	497	99	80	120	ug/L	SW-846 6010C	P
Cadmium	500	462	92	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4680	94	80	120	ug/L	SW-846 6010C	P
Chromium	500	464	93	80	120	ug/L	SW-846 6010C	P
Cobalt	500	470	94	80	120	ug/L	SW-846 6010C	P
Copper	500	464	93	80	120	ug/L	SW-846 6010C	P
Iron	5000	4740	95	80	120	ug/L	SW-846 6010C	P
Lead	500	471	94	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4760	95	80	120	ug/L	SW-846 6010C	P
Manganese	500	460	92	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	467	93	80	120	ug/L	SW-846 6010C	P
Nickel	500	464	93	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9520	95	80	120	ug/L	SW-846 6010C	P
Selenium	500	473	95	80	120	ug/L	SW-846 6010C	P
Silver	500	474	95	80	120	ug/L	SW-846 6010C	P
Sodium	20000	19400	97	80	120	ug/L	SW-846 6010C	P
Thallium	500	533	107	80	120	ug/L	SW-846 6010C	P
Titanium	500	461	92	80	120	ug/L	SW-846 6010C	P
Vanadium	500	457	91	80	120	ug/L	SW-846 6010C	P
Zinc	500	508	102	80	120	ug/L	SW-846 6010C	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944203

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 944203
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	5020	100	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	507	101	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	526	105	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	518	104	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	511	102	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	515	103	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	5070	101	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	504	101	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	521	104	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	504	101	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	5010	100	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	524	105	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	5060	101	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	514	103	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	511	102	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	508	102	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	10200	102	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	528	106	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	508	102	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	20400	102	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	527	105	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	503	101	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	506	101	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	513	103	80	120	ug/L	SW-846 6010C Dissolved	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944906

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 944906
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	5030	101	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	496	99	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	499	100	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	498	100	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	500	100	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	4990	100	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	495	99	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	494	99	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	4970	99	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	4970	99	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	498	100	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	10100	101	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	503	101	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	502	100	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	19000	95	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	496	99	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	507	101	80	120	ug/L	SW-846 6010C Dissolved	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS948870

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 948870
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	4840	97	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	469	94	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	477	95	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	483	97	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	484	97	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	488	98	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	4790	96	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	480	96	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	479	96	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	477	95	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	4810	96	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	478	96	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	4830	97	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	483	97	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	472	94	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	9690	97	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	490	98	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	486	97	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	19400	97	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	477	95	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	479	96	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	475	95	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	485	97	80	120	ug/L	SW-846 6010C Dissolved	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS949569

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 949569
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	4800	96	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	471	94	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	478	96	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	479	96	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	479	96	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	4760	95	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	472	94	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	480	96	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	472	94	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	4790	96	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	481	96	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	4840	97	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	470	94	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	468	94	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	475	95	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	9700	97	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	495	99	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	488	98	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	19700	99	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	537	107	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	466	93	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	468	94	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	478	96	80	120	ug/L	SW-846 6010C Dissolved	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944212
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 944212
LCS Source: 195-76-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	5.83	117	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS945532
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 945532
LCS Source: 195-83-11 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	4.89	98	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS949551
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 949551
LCS Source: 195-86-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	5.46	109	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS950608
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Lab Sample ID: 950608
LCS Source: 195-86-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	5.48	110	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS946278

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Lab Sample ID: 946278
LCS Source: 195-83-11 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury (Dissolved)	5.00	4.99	100	80	120	ug/L	SW-846 7470A Dissolved	AV

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-10SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105042607

Lab Sample ID: 945577

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			0	U	0	U			ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			8.34	B	20.0	B	140		ug/L	SW-846 6010C	P
Barium	0	10	124		123		.7		ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0.73	B	2.33	B	218		ug/L	SW-846 6010C	P
Calcium	0	10	53600		54700		2.1		ug/L	SW-846 6010C	P
Chromium			0	U	0	U			ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			12.3		17.3	B	40.9		ug/L	SW-846 6010C	P
Iron			0	U	0	U			ug/L	SW-846 6010C	P
Lead			1.54	B	9.76	B	534		ug/L	SW-846 6010C	P
Magnesium	0	10	40400		41000		1.4		ug/L	SW-846 6010C	P
Manganese			0	U	0	U			ug/L	SW-846 6010C	P
Molybdenum			3.77	B	0	U	100		ug/L	SW-846 6010C	P
Nickel			0	U	0	U			ug/L	SW-846 6010C	P
Potassium			5950		4340		27		ug/L	SW-846 6010C	P
Selenium			0	U	0	U			ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Sodium	0	10	21100		22300		5.9		ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			0	U	0	U			ug/L	SW-846 6010C	P
Vanadium			68.8		81.5	B	18.4		ug/L	SW-846 6010C	P
Zinc			3.3	B	0	U	100		ug/L	SW-846 6010C	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-14SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105042616

Lab Sample ID: 950661

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			60.6	B	0	U	100		ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Calcium	0	10	65900		65600		.5		ug/L	SW-846 6010C	P
Chromium			2.31	B	0	U	100		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			16.1		22.3	B	38.5		ug/L	SW-846 6010C	P
Iron			0	U	0	U			ug/L	SW-846 6010C	P
Lead			0	U	0	U			ug/L	SW-846 6010C	P
Magnesium	0	10	61800		61300		.8		ug/L	SW-846 6010C	P
Manganese			13.8	B	0	U	100		ug/L	SW-846 6010C	P
Molybdenum			25.4	B	21.1	B	16.9		ug/L	SW-846 6010C	P
Nickel			1.18	B	0	U	100		ug/L	SW-846 6010C	P
Potassium	0	10	11400		10600		7.3		ug/L	SW-846 6010C	P
Selenium			26.3	B	25.2	B	4.2		ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			0	U	0	U			ug/L	SW-846 6010C	P
Vanadium			59		89.1	B	51		ug/L	SW-846 6010C	P
Zinc			0	U	0	U			ug/L	SW-846 6010C	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-14SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105042616

Lab Sample ID: 951636

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium	0	10	628000		654000		4.2		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-18SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105042615

Lab Sample ID: 952396

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Barium	0	10	35.6		32.2	B	9.7		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 950674

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			276		0	U	100		ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Calcium	0	10	49700		48800		1.8		ug/L	SW-846 6010C	P
Chromium			8.54	B	8.59	B	.5		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			14.3		26.1	B	83.2		ug/L	SW-846 6010C	P
Iron			204		0	U	100		ug/L	SW-846 6010C	P
Lead			0	U	0	U			ug/L	SW-846 6010C	P
Magnesium	0	10	48700		47600		2.3		ug/L	SW-846 6010C	P
Manganese			12.6	B	12.6	B	0		ug/L	SW-846 6010C	P
Molybdenum			4.94	B	0	U	100		ug/L	SW-846 6010C	P
Nickel			2.96	B	0	U	100		ug/L	SW-846 6010C	P
Potassium	0	10	7780		7560		2.9		ug/L	SW-846 6010C	P
Selenium			0	U	0	U			ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			3.16	B	0	U	100		ug/L	SW-846 6010C	P
Vanadium			61.1		79.3	B	29.8		ug/L	SW-846 6010C	P
Zinc			2.74	B	0	U	100		ug/L	SW-846 6010C	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO2MW001DSD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105060801

Lab Sample ID: 952398

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Barium	0	10	19.8		19.0	B	3.9		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWL6SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105190401

Lab Sample ID: 951264

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			69.7	B	0	U	100		ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			5.89	B	0	U	100		ug/L	SW-846 6010C	P
Barium	0	10	24.1		21.9	B	9.1		ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Calcium	0	10	69200		68900		.4		ug/L	SW-846 6010C	P
Chromium			2.02	B	0	U	100		ug/L	SW-846 6010C	P
Cobalt			1.74	B	0	U	100		ug/L	SW-846 6010C	P
Copper			13.3		19.4	B	45.9		ug/L	SW-846 6010C	P
Iron	0	10	7450		7350		1.3		ug/L	SW-846 6010C	P
Lead			2.5	B	0	U	100		ug/L	SW-846 6010C	P
Magnesium	0	10	33800		34200		1		ug/L	SW-846 6010C	P
Manganese	0	10	265		239		10		ug/L	SW-846 6010C	P
Molybdenum			0	U	0	U			ug/L	SW-846 6010C	P
Nickel			1.09	B	0	U	100		ug/L	SW-846 6010C	P
Potassium	0	10	5470		5390		1.5		ug/L	SW-846 6010C	P
Selenium			9.06	B	25.7	B	184		ug/L	SW-846 6010C	P
Silver			0	U	5.45	B			ug/L	SW-846 6010C	P
Sodium	0	10	69600		72300		3.9		ug/L	SW-846 6010C	P
Titanium			0	U	0	U			ug/L	SW-846 6010C	P
Vanadium			69.9		67.0	B	4.2		ug/L	SW-846 6010C	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWL6SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105190401

Lab Sample ID: 952213

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Zinc			93.6		75.5	B	19.3		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL | Sample ID: MWQ-10SD

Lab Code: LA024 | Case No. | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050426

Level: (low / med) | Org Lab Sample ID: 21105042607

Lab Sample ID: 945579

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Arsenic (Dissolved)			7.83	B	46.7	B	497		ug/L	-846 6010C Dissolv	P
Barium (Dissolved)	0	10	123		118		4		ug/L	-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Cadmium (Dissolved)			0.86	B	1.15	B	33.1		ug/L	-846 6010C Dissolv	P
Calcium (Dissolved)	0	10	54300		53600		1.2		ug/L	-846 6010C Dissolv	P
Chromium (Dissolved)			1.07	B	0	U	100		ug/L	-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Copper (Dissolved)			12.2		18.5	B	51.5		ug/L	-846 6010C Dissolv	P
Iron (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Lead (Dissolved)			2.43	B	19.7	B	711		ug/L	-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	40500		40200		.8		ug/L	-846 6010C Dissolv	P
Manganese (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Molybdenum (Dissolved			4.87	B	0	U	100		ug/L	-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Potassium (Dissolved)			6090		4340		28.7		ug/L	-846 6010C Dissolv	P
Selenium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Sodium (Dissolved)	0	10	21500		22100		2.8		ug/L	-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	13.8	B			ug/L	-846 6010C Dissolv	P
Titanium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Vanadium (Dissolved)			69.8		79.9	B	14.5		ug/L	-846 6010C Dissolv	P
Zinc (Dissolved)			4.86	B	0	U	100		ug/L	-846 6010C Dissolv	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-14SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105042616

Lab Sample ID: 950658

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Arsenic (Dissolved)			3.99	B	0	U	100		ug/L	/-846 6010C Dissolv	P
Barium (Dissolved)	0	10	11.9		12.8	B	7.9		ug/L	/-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Cadmium (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Calcium (Dissolved)	0	10	66700		66100		1		ug/L	/-846 6010C Dissolv	P
Chromium (Dissolved)			1.98	B	0	U	100		ug/L	/-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Copper (Dissolved)			14.5		32.8	B	126		ug/L	/-846 6010C Dissolv	P
Iron (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Lead (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	62400		62300		.1		ug/L	/-846 6010C Dissolv	P
Manganese (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Molybdenum (Dissolved			26	B	28.9	B	11.2		ug/L	/-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Potassium (Dissolved)	0	10	11400		11400		.2		ug/L	/-846 6010C Dissolv	P
Selenium (Dissolved)			23.3	B	26.2	B	12.7		ug/L	/-846 6010C Dissolv	P
Silver (Dissolved)			0	U	3.50	B			ug/L	/-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	11.7	B			ug/L	/-846 6010C Dissolv	P
Titanium (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P
Vanadium (Dissolved)			58.1		98.6	B	69.8		ug/L	/-846 6010C Dissolv	P
Zinc (Dissolved)			0	U	0	U			ug/L	/-846 6010C Dissolv	P

SERIAL DILUTIONS

Lab Name: GCAL Sample ID: MWQ-14SD

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 211050426

Level: (low / med) Org Lab Sample ID: 21105042616

Lab Sample ID: 951634

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium (Dissolved)	0	10	632694.154		651000		2.9		ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 950676

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			105	B	0	U	100		ug/L	-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Arsenic (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Barium (Dissolved)	0	10	18		17.7	B	1.5		ug/L	-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Cadmium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Calcium (Dissolved)	0	10	50800		50300		1		ug/L	-846 6010C Dissolv	P
Chromium (Dissolved)			2.24	B	0	U	100		ug/L	-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Copper (Dissolved)			13.4		25.8	B	91.9		ug/L	-846 6010C Dissolv	P
Iron (Dissolved)			46.6	B	0	U	100		ug/L	-846 6010C Dissolv	P
Lead (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	50100		49600		1		ug/L	-846 6010C Dissolv	P
Manganese (Dissolved)			2.16	B	0	U	100		ug/L	-846 6010C Dissolv	P
Molybdenum (Dissolved			5.66	B	0	U	100		ug/L	-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Potassium (Dissolved)	0	10	7880		7630		3.2		ug/L	-846 6010C Dissolv	P
Selenium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Titanium (Dissolved)			1.53	B	0	U	100		ug/L	-846 6010C Dissolv	P
Vanadium (Dissolved)			58.3		80.4	B	38		ug/L	-846 6010C Dissolv	P
Zinc (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWL6SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105190401

Lab Sample ID: 951266

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Arsenic (Dissolved)			3.95	B	0	U	100		ug/L	-846 6010C Dissol	P
Barium (Dissolved)	0	10	20.8		20.8	B	.1		ug/L	-846 6010C Dissol	P
Beryllium (Dissolved)			0	U	1.03	B			ug/L	-846 6010C Dissol	P
Cadmium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Calcium (Dissolved)	0	10	69200		68500		1		ug/L	-846 6010C Dissol	P
Chromium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Copper (Dissolved)			9.01	B	18.6	B	106		ug/L	-846 6010C Dissol	P
Iron (Dissolved)			566		574		1.4		ug/L	-846 6010C Dissol	P
Lead (Dissolved)			1.9	B	0	U	100		ug/L	-846 6010C Dissol	P
Magnesium (Dissolved)	0	10	33700		34800		3.3		ug/L	-846 6010C Dissol	P
Manganese (Dissolved)	0	10	158		178		12.8	E	ug/L	-846 6010C Dissol	P
Molybdenum (Dissolved			0	U	0	U			ug/L	-846 6010C Dissol	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Potassium (Dissolved)	0	10	5560		5360		3.6		ug/L	-846 6010C Dissol	P
Selenium (Dissolved)			8.02	B	22.2	B	177		ug/L	-846 6010C Dissol	P
Silver (Dissolved)			0	U	3.76	B			ug/L	-846 6010C Dissol	P
Sodium (Dissolved)	0	10	67800		70700		4.2		ug/L	-846 6010C Dissol	P
Titanium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Vanadium (Dissolved)			59.3		56.8	B	4.1		ug/L	-846 6010C Dissol	P
Zinc (Dissolved)			4.65	B	0	U	100		ug/L	-846 6010C Dissol	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWL6SD
Lab Code: LA024
Case No.
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Org Lab Sample ID: 21105190401
Lab Sample ID: 952211

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 947424

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 947425

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury (Dissolved)			0	U	0	U			ug/L	-846 7470A Dissolv	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWL6SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050426

Level: (low / med)
Org Lab Sample ID: 21105190401

Lab Sample ID: 951380

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ-14SD
Lab Code: LA024
Case No.
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050426
Level: (low / med)
Org Lab Sample ID: 21105042616
Lab Sample ID: 951381

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL Sample ID: MWQ-10SD

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 211050426

Level: (low / med) Org Lab Sample ID: 21105042607

Lab Sample ID: 944402

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

METHOD DETECTION LIMITS

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211050426

Study Date: (P)10/13/10 (AV) 10/20/10

Instrument ID: (P) ICP5 / ICP6 (AV) FIMS1

Analyte	*MDL*	*Units*	*Type*
Aluminum	0.060	mg/L	P
Antimony	0.0040	mg/L	P
Arsenic	0.0025	mg/L	P
Barium	0.00011	mg/L	P
Beryllium	0.00011	mg/L	P
Cadmium	0.00020	mg/L	P
Calcium	0.050	mg/L	P
Chromium	0.0010	mg/L	P
Cobalt	0.0010	mg/L	P
Copper	0.0014	mg/L	P
Iron	0.040	mg/L	P
Lead	0.0014	mg/L	P
Magnesium	0.050	mg/L	P
Manganese	0.0020	mg/L	P
Mercury	0.000081	mg/L	AV
Molybdenum	0.00375	mg/L	P
Nickel	0.00096	mg/L	P
Potassium	0.10	mg/L	P
Selenium	0.0043	mg/L	P
Silver	0.00060	mg/L	P
Sodium	0.20	mg/L	P
Thallium	0.0018	mg/L	P
Titanium	0.0012	mg/L	P
Vanadium	0.00375	mg/L	P
Zinc	0.0027	mg/L	P

ICP Metals Water LOD's/LOQ's

Method	Analyte	Matrix	LOD (mg/L)	LOQ (mg/L)	Prep Method
SW846 6010B/C / EPA 200.7	Aluminum	W	0.06	0.2	3010A
SW846 6010B/C / EPA 200.7	Antimony	W	0.006	0.06	3010A
SW846 6010B/C / EPA 200.7	Arsenic	W	0.01	0.01	3010A
SW846 6010B/C / EPA 200.7	Barium	W	0.0005	0.01	3010A
SW846 6010B/C / EPA 200.7	Beryllium	W	0.00025	0.005	3010A
SW846 6010B/C / EPA 200.7	Boron	W	0.06	1.0	3010A
SW846 6010B/C / EPA 200.7	Cadmium	W	0.002	0.005	3010A
SW846 6010B/C / EPA 200.7	Calcium	W	0.05	0.1	3010A
SW846 6010B/C / EPA 200.7	Chromium	W	0.001	0.01	3010A
SW846 6010B/C / EPA 200.7	Cobalt	W	0.001	0.01	3010A
SW846 6010B/C / EPA 200.7	Copper	W	0.004	0.01	3010A
SW846 6010B/C / EPA 200.7	Iron	W	0.04	0.1	3010A
SW846 6010B/C / EPA 200.7	Lead	W	0.005	0.015	3010A
SW846 6010B/C / EPA 200.7	Magnesium	W	0.05	0.1	3010A
SW846 6010B/C / EPA 200.7	Manganese	W	0.002	0.015	3010A
SW846 6010B/C / EPA 200.7	Molybdenum	W	0.00375	0.03	3010A
SW846 6010B/C / EPA 200.7	Nickel	W	0.0025	0.04	3010A
SW846 6010B/C / EPA 200.7	Potassium	W	0.1	0.5	3010A
SW846 6010B/C / EPA 200.7	Selenium	W	0.015	0.04	3010A
SW846 6010B/C / EPA 200.7	Silver	W	0.002	0.01	3010A
SW846 6010B/C / EPA 200.7	Sodium	W	0.2	1.0	3010A
SW846 6010B/C / EPA 200.7	Strontium	W	0.001	0.05	3010A
SW846 6010B/C / EPA 200.7	Thallium	W	0.002	0.02	3010A
SW846 6010B/C / EPA 200.7	Tin	W	0.01	0.025	3010A
SW846 6010B/C / EPA 200.7	Titanium	W	0.0012	0.1	3010A
SW846 6010B/C / EPA 200.7	Vanadium	W	0.00375	0.02	3010A
SW846 6010B/C / EPA 200.7	Zinc	W	0.0075	0.02	3010A

Metals Miscellaneous Water LOD's/LOQ's

Method	Analyte	Matrix	LOD (mg/L)	LOQ (mg/L)	Prep Method
SW846 7470A / EPA 245.1/245.2	Mercury	W	0.0002	0.0002	N/A
SW846 7010	Arsenic	W	0.002	0.010	3020A
SW846 7010	Selenium	W	0.001	0.005	3020A
SW846 7010	Thallium	W	0.002	0.003	3020A

IEC File Name: ICP6_2110412

IEC File Last Saved: 5/9/2011 4:04:18 PM
Printed On: 5/11/2011 8:55:05 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Aluminum,7429-90-5	Calcium,7440-70-2	Chromium,7440-47-3	Copper,7440-50-8
1	Aluminum,7429-90-5	n/a	-0.0286577	-0.683808	-0.739605
2	Antimony,7440-36-0	0.00126	-0.00154809	19.7708	-0.00261635
5	Arsenic,7440-38-2	-0.0561283	0	0.111312	-0.0157937
6	Barium,7440-39-3	0.00119	0.0104879	0.00928673	0.00299839
7	Beryllium,7440-41-7	0	0	-0.0110458	0.0397649
8	Boron,7440-42-8	0.00731867	0.0143787	0.252103	0.0420573
9	Cadmium,7440-43-9	0.01388	-0.00126797	-0.18818	0.0200079
10	Calcium,7440-70-2	0.027832	n/a	-1.88215	0.238788
11	Chromium,7440-47-3	0.04794	0	n/a	0.0158997
12	Cobalt,7440-48-4	0	0	-0.182477	0.0737948
13	Copper,7440-50-8	0.00217697	0	-0.233183	n/a
14	Iron,7439-89-6	0.0513325	0.00320007	0.341469	0.00799524
15	Lead,7439-92-1	-0.11696	-0.0102341	-0.0521034	0.468523
16	Lithium,7439-93-2	-0.00694086	-0.00456089	-0.0232596	0.0112586
17	Magnesium,7439-95-4	0.00230743	0.00138452	-0.0475728	0.107302
18	Manganese,7439-96-5	-0.01098	0	-0.0698207	0.00154313
19	Molybdenum,7439-98-7	0	-0.0036713	0.0730874	0.00244185
20	Nickel,7440-02-0	-0.00116781	0	0.0156546	-0.00226366
21	Potassium,7440-09-7	-0.38977	-0.00863437	0.243174	-0.0857667
23	Selenium,7782-49-2	-0.00368754	-0.00201218	-0.0535067	0.0174661
24	Silicon,7440-21-3	0.00320213	0.133494	-0.153804	-0.0284434
25	Silver,7440-22-4	0.00125187	-0.00730783	0.00672254	0.0443056
26	Sodium,7440-23-5	0.161946	0.0731612	0.763138	-0.0962373
27	Strontium,7440-24-6	0	0.0309314	0.00116797	0
28	Thallium,7440-28-0	0.00420794	0.00186109	0.150794	0.0114215
29	Tin,7440-31-5	0.0075104	-0.0081075	-0.0386812	0.00306447
30	Titanium,7440-32-6	0	0	0.00184524	0.00389563
31	Vanadium,7440-62-2	0.00116604	0.00405548	-1.40859	-0.00590393
34	Zinc,7440-66-6	0	0	-0.0255995	0.325487
35	Zirconium,7440-67-7	0	0.00664328	-0.0817625	-0.00146221

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IEC File Last Saved: 5/9/2011 4:04:18 PM
Printed On: 5/11/2011 8:55:05 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Iron,7439-89-6	Magnesium,7439-95-4	Manganese,7439-96-5	Nickel,7440-02-0
1	Aluminum,7429-90-5	-0.209169	-0.0286382	-0.811012	-0.146358
2	Antimony,7440-36-0	0.0100634	0.00138303	-0.0586308	-0.0387175
5	Arsenic,7440-38-2	-0.0332269	0	-0.302726	-0.597021
6	Barium,7440-39-3	0.0801818	0	-0.0732571	-0.0111359
7	Beryllium,7440-41-7	0	0	0.0120213	0.000619666
8	Boron,7440-42-8	-3.96118	0.238211	-0.00417606	0.166055
9	Cadmium,7440-43-9	0.0290588	-0.00194133	0.0101938	0.0900079
10	Calcium,7440-70-2	0.082379	0.660707	0.618928	0.399017
11	Chromium,7440-47-3	-0.0118578	0.0108593	0.474659	0.00475246
12	Cobalt,7440-48-4	0.0221311	0	0.0111715	0.159633
13	Copper,7440-50-8	-0.056107	0.0277851	-0.183544	-0.0590739
14	Iron,7439-89-6	n/a	0.0745416	-0.194161	0.119767
15	Lead,7439-92-1	0.0238128	0.00198206	0.166849	-0.112457
16	Lithium,7439-93-2	0.214196	0.00776558	0.0894097	0.0488182
17	Magnesium,7439-95-4	0.0749935	n/a	-6.10544	0.189097
18	Manganese,7439-96-5	-0.018345	0.0170552	n/a	0.00687926
19	Molybdenum,7439-98-7	-0.0594203	0	-0.0264535	0
20	Nickel,7440-02-0	0.00626378	0.00121603	0.0424259	n/a
21	Potassium,7440-09-7	0.8516	0.597748	3.42002	0.765171
23	Selenium,7782-49-2	-0.384237	-0.00285659	0.664143	-0.00686401
24	Silicon,7440-21-3	-0.0277401	0.655916	-0.0310742	-0.0554139
25	Silver,7440-22-4	-0.0217091	0.00161927	0.261444	0.00389222
26	Sodium,7440-23-5	-0.0360744	0.154506	-0.892652	-0.207123
27	Strontium,7440-24-6	0.00164257	0.00198121	-0.0012808	0
28	Thallium,7440-28-0	0.0218736	-0.00658303	-7.62549	0.0103223
29	Tin,7440-31-5	-0.0182914	0.0164941	-0.020679	0.00282765
30	Titanium,7440-32-6	0.0019956	0.00156352	0.00477341	0
31	Vanadium,7440-62-2	0.375473	0.108726	-0.0120246	-0.0114093
34	Zinc,7440-66-6	0.0901781	0.0154919	0.130107	6.96965
35	Zirconium,7440-67-7	0.013643	0	0.0045963	-0.0320422

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Interfering Analytes

	Analytes	Titanium,7440-32-6	Vanadium,7440-62-2
1	Aluminum,7429-90-5	0.7442	12.9771
2	Antimony,7440-36-0	-0.667254	-2.71411
5	Arsenic,7440-38-2	-0.0185473	-17.0541
6	Barium,7440-39-3	-0.0167887	-1.59345
7	Beryllium,7440-41-7	-2.44132	-0.0379181
8	Boron,7440-42-8	0.0834021	-0.260126
9	Cadmium,7440-43-9	-0.00518088	-0.00377344
10	Calcium,7440-70-2	0.538917	0.18595
11	Chromium,7440-47-3	0.0323753	-0.525557
12	Cobalt,7440-48-4	2.25207	0.0215555
13	Copper,7440-50-8	-0.287768	-0.293651
14	Iron,7439-89-6	0.0371013	0.420021
15	Lead,7439-92-1	-0.308356	-0.0486499
16	Lithium,7439-93-2	0.0612274	-0.0118191
17	Magnesium,7439-95-4	0.783002	0.39872
18	Manganese,7439-96-5	0.0195422	0.0105513
19	Molybdenum,7439-98-7	0.0114226	-0.178552
20	Nickel,7440-02-0	0.00441814	0.006173
21	Potassium,7440-09-7	1.6591	0.647249
23	Selenium,7782-49-2	-0.0674685	0.309972
24	Silicon,7440-21-3	0	0.229195
25	Silver,7440-22-4	0.0121537	-4.14794
26	Sodium,7440-23-5	-0.614069	-0.540203
27	Strontium,7440-24-6	-0.00266828	0.0149492
28	Thallium,7440-28-0	-6.72197	-9.80029
29	Tin,7440-31-5	-3.276	-0.00781111
30	Titanium,7440-32-6	n/a	0.0528384
31	Vanadium,7440-62-2	-0.0661099	n/a
34	Zinc,7440-66-6	-0.504326	-0.0471577
35	Zirconium,7440-67-7	0.204891	-0.0115903

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ICP LINEAR RANGES

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211050426

Study Date: 04/12/11

Instrument ID: ICP6

Analyte	*Concentration*	*% Recovery*	*Units*	*Type*
Aluminum	1500	94	mg/L	P
Antimony	25	97	mg/L	P
Arsenic	25	95	mg/L	P
Barium	25	96	mg/L	P
Beryllium	5	95	mg/L	P
Boron	50	97	mg/L	P
Cadmium	15	96	mg/L	P
Calcium	2000	94	mg/L	P
Chromium	120	96	mg/L	P
Cobalt	150	98	mg/L	P
Copper	100	96	mg/L	P
Iron	500	92	mg/L	P
Lead	500	97	mg/L	P
Lithium	20	96	mg/L	P
Magnesium	900	91	mg/L	P
Manganese	30	90	mg/L	P
Molybdenum	100	91	mg/L	P
Nickel	60	95	mg/L	P
Potassium	160	96	mg/L	P
Selenium	15	96	mg/L	P
Silver	10	102	mg/L	P
Silicon	20	90	mg/L	P
Sodium	600	93	mg/L	P
Strontium	5	99	mg/L	P
Thallium	25	99	mg/L	P
Tin	50	95	mg/L	P
Titanium	40	91	mg/L	P
Vanadium	100	90	mg/L	P
Zinc	13	90	mg/L	P
Zirconium	25	104	mg/L	P

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/10/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/10/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1033	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICB	*	1	1046	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL	*	1	1052	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL2	*	1	1058			X																												
ICSA	*	1	1111	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICSAB	*	1	1117	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1123	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1130	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB944202(Dissolved)	*	1	1142	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
LCS944203(Dissolved)	*	1	1148	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10(Dissolved)	*	1	1154	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10-MS(Dissolved)	*	1	1201	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10-MSD(Dissolved)	*	1	1207	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10PDS(Dissolved)	*	1	1213	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10SD(Dissolved)	*	5	1220	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-4(Dissolved)	*	1	1232	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-5(Dissolved)	*	1	1238	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1244	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1304	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-5-DUP(Dissolved)	*	1	1318	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-6(Dissolved)	*	1	1324	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-79(Dissolved)	*	1	1330	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB944205	*	1	1336	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
LCS944206	*	1	1342	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10	*	1	1348	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10-MS	*	1	1354	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10-MSD	*	1	1401	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL | Contract: | Start Date: 05/10/11

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426 | End Date: 05/10/11

Instrument ID Number: ICP6 | Method: SW-846 6010C | Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols																														
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MWQ-10PDS	*	1	1407	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-10SD	*	5	1413	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1419	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1427	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-3	*	1	1440	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-4	*	1	1446	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-5	*	1	1452	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-5-DUP	*	1	1458	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-6	*	1	1505	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-7	*	1	1511	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-3(Dissolved)	*	1	1517	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1529	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1551	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1144	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICB	*	1	1159	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL	*	1	1207	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL2	*	1	1213								X																							
ICSA	*	1	1224	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICSAB	*	1	1230	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1236	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1254	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB948869(Dissolved)	*	1	1301	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
LCS948870(Dissolved)	*	1	1308	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-14(Dissolved)	*	1	1315	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ14-MS(Dissolved)	*	1	1322	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ14-MSD(Dissolved)	*	1	1329	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-14PDS(Dissolved)	*	1	1335	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-14SD(Dissolved)	*	5	1342	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-22(Dissolved)	*	1	1349	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-21(Dissolved)	*	1	1357	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-19(Dissolved)	*	1	1404	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1411	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1431	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-18(Dissolved)	*	1	1438	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-20(Dissolved)	*	1	1445	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-20 DUP(Dissolved)	*	1	1452	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
EB2(Dissolved)	*	1	1458	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MB948867	*	1	1505	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS948868	*	1	1513	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-14	*	1	1520	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	

211050426 SDG

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MWQ14-MS	*	1	1527	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ14-MSD	*	1	1534	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-14PDS	*	1	1540	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1547	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1608	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-14SD	*	5	1616	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-22	*	1	1623	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-21	*	1	1630	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-19	*	1	1637	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-18	*	1	1644	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MWQ-20	*	1	1651	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-20 DUP	*	1	1657	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
EB2	*	1	1704	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1725	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1732	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB944905(Dissolved)	*	1	1739	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS944906(Dissolved)	*	1	1746	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1753																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1800	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1806	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1813	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1820	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-2(Dissolved)	*	1	1827	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1833																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1840																															
CCV	*	1	1847	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1853	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

211050426 SDG

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1901																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1907																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1915																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1922																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1928																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1935																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1942																															
MB944933	*	1	1949	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS944934	*	1	1957	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2004																															
CCV	*	1	2011	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	2018	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	2025	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	2032	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	2039	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	2045	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-2	*	1	2052	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2059																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2105																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2112																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2119																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2126																															
CCV	*	1	2133	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	2140	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/25/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/26/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0945				X				X																X							
ICV2	*	1	0952																															
ICB	*	1	1010				X				X																X							
CRDL	*	1	1017				X				X																X							
CRDL2	*	1	1025																															
ICSA	*	1	1040				X				X																X							
ICSAB	*	1	1047				X				X																X							
CCV	*	1	1053				X				X																X							
CCB	*	1	1100				X				X																X							
CCV	*	1	1606				X				X																X							
CCB	*	1	1612				X				X																X							
MB944905(Dissolved)	*	1	1633								X																X							
LCS944906(Dissolved)	*	1	1640																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1646																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1654																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1701																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1708																															
MWQ-2(Dissolved)	*	25	1729																								X							
CCV	*	1	1742				X				X																X							
CCB	*	1	1748				X				X																X							
CCV	*	1	1907				X				X																X							
CCB	*	1	1914				X				X																X							
MB944933		1	1921				X																				X							
LCS944934		1	1929																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1935																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1942																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1949																								X							

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/25/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/26/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1956																															
MWQ-2	*	25	2017																								X							
CCV	*	1	2032				X				X																X							
CCB	*	1	2038				X				X																X							
CCV	*	1	2159				X				X																X							
CCB	*	1	2206				X				X																X							
MWQ-14(Dissolved)	*	5	2213																								X							
MWQ14-MS(Dissolved)	*	5	2220																								X							
MWQ14-MSD(Dissolved)	*	5	2227																								X							
MWQ-14PDS(Dissolved)	*	5	2234																								X							
MWQ-14SD(Dissolved)	*	25	2242																								X							
MWQ-19(Dissolved)	*	5	2248																								X							
MWQ-20(Dissolved)	*	25	2256																								X							
MWQ-20 DUP(Dissolved)	*	25	2304																								X							
CCV	*	1	2325				X				X																X							
CCB	*	1	2331				X				X																X							
MWQ-14	*	5	2338																								X							
MWQ14-MS	*	5	2345																								X							
MWQ14-MSD	*	5	2352																								X							
MWQ-14PDS	*	5	2359																								X							
MWQ-14SD	*	25	0007																								X							
MWQ-19	*	5	0014																								X							
MWQ-20	*	25	0021																								X							
MWQ-20 DUP	*	25	0028																								X							
CCV	*	1	0050				X				X																X							
CCB	*	1	0057				X				X																X							

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/26/11

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Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1022	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
ICV2	*	1	1029																															
ICB	*	1	1051	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CRDL	*	1	1058	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CRDL2	*	1	1107																															
ICSA	*	1	1124	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
ICSAB	*	1	1130	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCV	*	1	1137	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCB	*	1	1153	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCV	*	1	1610	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCB	*	1	1630	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MB949568	*	1	1637	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
LCS949569	*	1	1643	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MWL6	*	1	1650	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MWL6MS	*	1	1657	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MWL6MSD	*	1	1703	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MWL6PDS	*	1	1709	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MWL6SD	*	5	1716	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCV	*	1	1745	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCB	*	1	1751	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
MB949576	*	1	1758	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
LCS949577	*	1	1805	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
MWL6	*	1	1812	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
MWL6MS	*	1	1818	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
MWL6MSD	*	1	1825	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
MWL6PDS	*	1	1831	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		
MWL6SD	*	5	1838	X	X	X	X			X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X		

211050426 SAS 1 of 1

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/26/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/26/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols																																
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCV	*	1	1905	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	
CCB	*	1	1912	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X	X				X	X	X	

SDG 211050426

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/27/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/28/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1103				X																											
ICB	*	1	1121				X																											
CRDL	*	1	1129				X																											
CRDL2	*	1	1135																															
ICSA	*	1	1141				X																											
ICSAB	*	1	1157				X																											
CCV	*	1	1204				X																											
CCB	*	1	1224				X																											
CCV	*	1	1341				X																											
CCB	*	1	1347				X																											
MB948867	*	1	1406				X																											
MWQ-14	*	1	1413				X																											
MWQ14-MS	*	1	1421				X																											
MWQ14-MSD	*	1	1427				X																											
MWQ-18	*	1	1434				X																											
MWQ-18PDS	*	1	1441				X																											
MWQ-18SD	*	5	1447				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1454																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1501				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1508				X																											
CCV	*	1	1515				X																											
CCB	*	1	1521				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1545																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1552				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1558				X																											
MWQ-2	*	1	1605				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1612																															

SAS 0574572 211050426

ANALYSIS RUN LOG

Lab Name: GCAL | Contract: | Start Date: 05/27/11

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050426 | End Date: 05/28/11

Instrument ID Number: ICP6 | Method: SW-846 6010C | Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1619																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1626																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1634																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1641																															
CCV	*	1	1647				X																											
CCB	*	1	1653				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1701																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1708																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1715																															
MWQ-22	*	1	1722				X																											
MWQ-21	*	1	1730				X																											
MWQ-19	*	1	1737				X																											
MWQ-20	*	1	1743				X																											
MWQ-20 DUP	*	1	1750				X																											
EB2	*	1	1757				X																											
CCV	*	1	1810				X																											
CCB	*	1	1816				X																											

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/31/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/31/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1136					X																			X		X				X	
ICV2	*	1	1144																															
ICB	*	1	1156					X																			X		X				X	
CRDL	*	1	1203					X																			X		X				X	
CRDL2	*	1	1209																															
ICSA	*	1	1220					X																			X		X				X	
ICSAB	*	1	1226					X																			X		X				X	
CCV	*	1	1233					X																			X		X				X	
CCB	*	1	1248					X																			X		X				X	
MB 948867	*	1	1254																								X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1301																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1309																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1315																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1322																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1329																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1336																															
CCV	*	1	1404					X																			X		X				X	
CCB	*	1	1412					X																			X		X				X	
EB2(Dissolved)	*	1	1421																								X							
EB2	*	1	1428																								X							
MB949568(Dissolved)	*	1	1448																										X					
LCS949569(Dissolved)	*	1	1454																										X					
MWL6(Dissolved)	*	1	1448																										X					
MWL6MS(Dissolved)	*	1	1454																										X					
MWL6MSD(Dissolved)	*	1	1501																										X					
MWL6SD(Dissolved)	*	5	1513																										X					
MWL6PDS(Dissolved)	*	1	1520																										X					

TestAmerica Seattle

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/31/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/31/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCV	*	1	1527					X																			X		X				X	
CCB	*	1	1535					X																			X		X				X	
MB949576	*	1	1555					X																					X				X	
LCS949577	*	1	1602					X																					X				X	
MWL6	*	1	1555					X																					X				X	
MWL6MS	*	1	1602					X																					X				X	
MWL6MSD	*	1	1608					X																					X				X	
MWL6PDS	*	1	1615					X																					X				X	
MWL6SD	*	5	1621					X																					X				X	
CCV	*	1	1627					X																			X		X				X	
CCB	*	1	1634					X																			X		X				X	

STC 03140772

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/05/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/05/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1046																	X														
ICB	*	1	1047																	X														
CCV	*	1	1049																	X														
CCB	*	1	1050																	X														
MB944211	*	1	1052																	X														
LCS944212	*	1	1053																	X														
MWQ-10	*	1	1055																	X														
MWQ-10-MS	*	1	1057																	X														
MWQ-10-MSD	*	1	1058																	X														
MWQ-10SD	*	5	1100																	X														
MWQ-10(Dissolved)	*	1	1101																	X														
MWQ-10-MS(Dissolved)	*	1	1103																	X														
MWQ-10-MSD(Dissolved)	*	1	1105																	X														
MWQ-3(Dissolved)	*	1	1106																	X														
CCV	*	1	1108																	X														
CCB	*	1	1109																	X														
MWQ-3	*	1	1111																	X														
MWQ-4(Dissolved)	*	1	1113																	X														
MWQ-4	*	1	1114																	X														
MWQ-5(Dissolved)	*	1	1116																	X														
MWQ-5	*	1	1118																	X														
MWQ-5-DUP(Dissolved)	*	1	1119																	X														
MWQ-5-DUP	*	1	1121																	X														
MWQ-6(Dissolved)	*	1	1122																	X														
MWQ-6	*	1	1124																	X														
MWQ-7(Dissolved)	*	1	1125																	X														
CCV	*	1	1127																	X														

STL SACRAMENTO

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/05/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/05/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

Sample No.	PF	D/F	Time	Analyte Symbols: Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCB	*	1	1129																	X														
MWQ-7	*	1	1130																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1132																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1133																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1135																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1137																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1138																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1140																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1142																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1143																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1145																															
CCV	*	1	1146																	X														
CCB	*	1	1148																	X														

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																																		
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1149																	X														
ICB	*	1	1151																	X														
CCV	*	1	1153																	X														
CCB	*	1	1154																	X														
CCV	*	1	1332																	X														
CCB	*	1	1333																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1335																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1336																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1338																															
MB945531	*	1	1339																	X														
LCS945532	*	1	1341																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1343																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1344																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1346																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1347																	X														
MWQ-2	*	1	1349																	X														
CCV	*	1	1351																	X														
CCB	*	1	1352																	X														

SAS 0250425 211050426

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A D Method Type: AV

				Analyte Symbols																																		
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1149																	X														
ICB	*	1	1151																	X														
CCV	*	1	1153																	X														
CCB	*	1	1154																	X														
CCV	*	1	1411																	X														
CCB	*	1	1413																	X														
MB946277(Dissolved)	*	1	1417																	X														
LCS946278(Dissolved)	*	1	1419																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1420																															
MAO1MW001MS(Dissolved)	*	1	1422																	X														
MAO1MW001MSD(Dissolved)	*	1	1423																	X														
MAO1MW001SD(Dissolved)	*	1	1425																	X														
MWQ-2(Dissolved)	*	1	1427																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1428																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1430																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1431																															
CCV	*	1	1433																	X														
CCB	*	1	1434																	X														

GTC 07/05/11

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/26/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/26/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0909																	X														
ICB	*	1	0910																	X														
CCV	*	1	0912																	X														
CCB	*	1	0913																	X														
CCV	*	1	1806																	X														
CCB	*	1	1808																	X														
MB949550	*	1	1809																	X														
LCS949551	*	1	1811																	X														
MWL6	*	1	1813																	X														
MWL6MS	*	1	1814																	X														
MWL6MSD	*	1	1816																	X														
MWL6SD	*	5	1817																	X														
MWL6(Dissolved)	*	1	1819																	X														
MB950607	*	1	1821																	X														
LCS950608	*	1	1822																	X														
MWQ-14	*	1	1824																	X														
CCV	*	1	1825																	X														
CCB	*	1	1827																	X														
MWQ14-MS	*	1	1829																	X														
MWQ14-MSD	*	1	1830																	X														
MWQ-14SD	*	5	1832																	X														
MWQ-14(Dissolved)	*	1	1834																	X														
MWQ14-MS(Dissolved)	*	1	1835																	X														
MWQ14-MSD(Dissolved)	*	1	1837																	X														
MWQ-22	*	1	1838																	X														
MWQ-22	*	1	1840																	X														
MWQ-21(Dissolved)	*	1	1841																	X														

LTS 02450772

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/26/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050426 End Date: 05/26/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MWQ-21	*	1	1843																	X														
CCV	*	1	1845																	X														
CCB	*	1	1846																	X														
MWQ-19(Dissolved)	*	1	1848																	X														
MWQ-19	*	1	1849																	X														
MWQ-18(Dissolved)	*	1	1851																	X														
MWQ-18	*	1	1853																	X														
MWQ-20(Dissolved)	*	1	1854																	X														
MWQ-20	*	1	1856																	X														
MWQ-20 DUP(Dissolved)	*	1	1857																	X														
MWQ-20 DUP	*	1	1859																	X														
EB2(Dissolved)	*	1	1901																	X														
EB2	*	1	1902																	X														
CCV	*	1	1905																	X														
CCB	*	1	1906																	X														

OTC 02450772

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 16:30 End: 18:30	BATCH NO:	455675
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐ 6010C DRS

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455675 [DIGM/26728]	944202	50	50	MB		HNO3 196 9-11
2	QC ACCOUNT	LCS for HBN 455675 [DIGM/26728	944203			LCS		
3	4747	MWQ-3	21105042601			SAMPLE	Field Filtered	HCL 196 9-11
4	4747	MWQ-4	21105042602			SAMPLE		
5	4747	MWQ-5	21105042603			SAMPLE		H2O2
6	4747	MWQ-5-DUP	21105042604			FLDDUP		
7	4747	MWQ-6	21105042605			SAMPLE		SOLID MATERIAL:
8	4747	MWQ-7	21105042606			SAMPLE		
9	4747	MWQ-10	21105042607			SAMPLE		
10	4747	MWQ-10-MS	21105042608			MS		
11	4747	MWQ-10-MSD	21105042609			MSD		
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 1964-11
20								
21								GCALI-2 - 250uL 1964-10
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 95°

BLOCK ID	TECHNICIAN	DATE
33-4-9-11	JCL	5-4-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JCL	Jomc	5/6/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 16:30	End: 18:30	BATCH NO:	455676
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455676 [DIGM/26729]	944205	50	50	MB		HNO3 196941
2	QC ACCOUNT	LCS for HBN 455676 [DIGM/26729	944206			LCS		
3	4747	MWQ-3	21105042601			SAMPLE		HCL 196942
4	4747	MWQ-4	21105042602			SAMPLE		
5	4747	MWQ-5	21105042603			SAMPLE		H2O2
6	4747	MWQ-5-DUP	21105042604			FLDDUP		
7	4747	MWQ-6	21105042605			SAMPLE		SOLID MATERIAL:
8	4747	MWQ-7	21105042606			SAMPLE		
9	4747	MWQ-10	21105042607			SAMPLE		
10	4747	MWQ-10-MS	21105042608			MS		
11	4747	MWQ-10-MSD	21105042609			MSD		
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 196477
20								
21								GCALI-2 - 250uL 196478
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 95

BLOCK ID	TECHNICIAN	DATE
AL 33-4-9-11	JRL	5/4/11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JRL	[illegible]	5/6/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 1430 End: 9:30	BATCH NO:	455823
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☐ 3050B ☐ 3051 ☐ 6010C Diss

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455823 [DIGM/26764]	944905	50	50	MB		HNO3 19L9-18
2	QC ACCOUNT	LCS for HBN 455823 [DIGM/26764	944906			LCS		
3	4747	MWQ2	21105042611			SAMPLE	Field Filtered	HCl 19L-10-M
4	4747	MA02MW001D	21105060801			SAMPLE	↓	
5	4747	M114MW004	21105060802			SAMPLE	Lab Filtered	H2O2
6	4747	M114MW002	21105060805			SAMPLE	Field Filtered	SOLID MATERIAL:
7	4747	EB1	21105060806			EQBK		
8	4747	M114MW003	21105060807			SAMPLE		
9	4747	MA01MW001	21105060810			SAMPLE		
10	4747	MA01MW001-MS	21105060811			MS		
11	4747	MA01MW001-MSD	21105060812			MSD		
12	4747	M114MW001	21105060815			SAMPLE		
13	4747	M114MW001-DUP	21105060816			FLDDUP		
14	4747	MAOMW004	21105060818			SAMPLE		
15	4747	MAOMW003	21105060819	↓	↓	SAMPLE	↓	
16								SPIKING SOLUTIONS (LCS/MS)
17								
18								GCALI-1 - 250uL 19L 4-17
19								
20								GCALI-2 - 250uL 19L 4-18
21								
22								ORGANOMETALLIC ICP SPIKE 0.025g
23								
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 950

BLOCK ID	TECHNICIAN	DATE
AZ 53-3-31-11	JTG	5-12-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JTG	[illegible]	5/17/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 4:30 End: 9:30	BATCH NO:	455827
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455827 [DIGM/26768]	944933	50	50	MB		HNO3 196948
2	QC ACCOUNT	LCS for HBN 455827 [DIGM/26768	944934			LCS		
3	4747	MWQ2	21105042611			SAMPLE		HCL 196-10-4
4	4747	MA02MW001D	21105060801			SAMPLE		
5	4747	M114MW004	21105060802			SAMPLE		H2O2
6	4747	M114MW002	21105060805			SAMPLE		
7	4747	EB1	21105060806			EQBK		SOLID MATERIAL:
8	4747	M114MW003	21105060807			SAMPLE		
9	4747	MA01MW001	21105060810			SAMPLE		
10	4747	MA01MW001-MS	21105060811			MS		
11	4747	MA01MW001-MSD	21105060812			MSD		
12	4747	M114MW001	21105060815			SAMPLE		
13	4747	M114MW001-DUP	21105060816			FLDDUP		
14	4747	MAOMW004	21105060818			SAMPLE		
15	4747	MAOMW003	21105060819	↓	↓	SAMPLE		
16								SPIKING SOLUTIONS (LCS/MS)
17								
18								
19								GCALI-1 - 250ul 196447
20								
21								GCALI-2 - 250ul 196448
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 950

BLOCK ID	TECHNICIAN	DATE
A2 33-3-31-11	JK	5-19-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JK	Tomc	5/17/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 15:00 End: 17:00	**BATCH NO:**	456691
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	**METHOD:**	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456691 [DIGM/26890]	948867	50	50	MB		HNO3 19610-11
2	QC ACCOUNT	LCS for HBN 456691 [DIGM/26890	948868	↓	↓	LCS		
3	4747	MWQ-22	21105042612			SAMPLE		HCL 19610-7
4	4747	MWQ-21	21105042613			SAMPLE		
5	4747	MWQ-19	21105042614			SAMPLE		H2O2
6	4747	MWQ-18	21105042615			SAMPLE		
7	4747	MWQ-14	21105042616			SAMPLE		SOLID MATERIAL:
8	4747	MWQ14-MS	21105042617			MS		
9	4747	MWQ14-MSD	21105042618			MSD		
10	4747	MWQ-20	21105042620			SAMPLE		
11	4747	MWQ-20 DUP	21105042621			FLDDUP		
12	4747	EB2	21105042622	↓	↓	EQBK		
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 19614-4
20								
21								GCALI-2 - 250uL 19614-8
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 95°

BLOCK ID	TECHNICIAN	DATE
AR 33-3-34-1	JL	5-19-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JL	[illegible]	5/30/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 15:00	End: 17:00	BATCH NO:	456692
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	200.0 ☐ 200.7 ☐ 3010A ☐ 3050B ☐ 3051 ☐ 3005

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456692 [DIGM/26891]	948869	50	50	MB		HNO3 196 10-16
2	QC ACCOUNT	LCS for HBN 456692 [DIGM/26891	948870			LCS		
3	4747	MWQ-22	21105042612			SAMPLE	Field Filtered	HCL 196 10-14
4	4747	MWQ-21	21105042613			SAMPLE		
5	4747	MWQ-19	21105042614			SAMPLE		H2O2
6	4747	MWQ-14	21105042616			SAMPLE		
7	4747	MWQ14-MS	21105042617			MS		SOLID MATERIAL:
8	4747	MWQ14-MSD	21105042618			MSD		
9	4747	MWQ-20	21105042620			SAMPLE		
10	4747	MWQ-20 DUP	21105042621			FLDDUP		
11	4747	EB2	21105042622	↓	↓	EQBK		
12	4747	MWQ-18	21105042615			SAMPLE	Lab Filtered	
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 196 444
20								
21								GCALI-2 - 250uL 196 448
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 4°C

BLOCK ID	TECHNICIAN	DATE
A2 33-37	JCL	5-19-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JCL	[illegible]	5/20/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 10:35 End: 12:35	BATCH NO:	456846
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐ Diss Cold

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456846 [DIGM/26915]	949568	50	50	MB		HNO3 196-11-2
2	QC ACCOUNT	LCS for HBN 456846 [DIGM/26915	949569			LCS		
3	4747	MWL6	21105190401			SAMPLE	Field Filtered	HCL 196-11-1
4	QC ACCOUNT	MWL6(948703MS)	949570			MS		H2O2
5	QC ACCOUNT	MWL6(948703MSD)	949571	↓	↓	MSD	↓	
6								SOLID MATERIAL:
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								SPIKING SOLUTIONS (LCS/MS)
17								
18								
19								GCALI-1 - 250uL 196-4-4
20								
21								GCALI-2 - 250uL 196-4-6
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 950

BLOCK ID	TECHNICIAN	DATE
A2 33-331-11	JH	5-13-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JH	Bmc	5/30/11

Revision 1. 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 10:35 End: 12:35	BATCH NO:	456848
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐ 6010C

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456848 [DIGM/26917]	949576	50	50	MB		HNO3 1946-11-2
2	QC ACCOUNT	LCS for HBN 456848 [DIGM/26917	949577	↓	↓	LCS		
3	4747	MWL6	21105190401	↓	↓	SAMPLE		HCL 1946-4
4	QC ACCOUNT	MWL6(948703MS)	949578	↓	↓	MS		H2O2
5	QC ACCOUNT	MWL6(948703MSD)	949579	↓	↓	MSD		
6								SOLID MATERIAL:
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 1946-44
20								
21								GCALI-2 - 250uL 1946-48
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 95°

BLOCK ID	TECHNICIAN	DATE
AZ 33 3-31-11	JG	5-23-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JG	Rome	5/25/11

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 16:30	End: 18:30	BATCH NO:	455678
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (mL) g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455678 [DIGM/26731]	944211	20	20	MB		HNO3 19e9-11
2	QC ACCOUNT	LCS for HBN 455678 [DIGM/26731	944212			LCS		
3	4747	MWQ-3	21105042601			SAMPLE		H2SO4 19e9-14
4	4747	MWQ-3	21105042601			SAMPLE	Field Filtered	
5	4747	MWQ-4	21105042602			SAMPLE		Aqua Regia
6	4747	MWQ-4	21105042602			SAMPLE	Field Filtered	
7	4747	MWQ-5	21105042603			SAMPLE		KMNO4 19e9-17
8	4747	MWQ-5	21105042603			SAMPLE	Field Filtered	
9	4747	MWQ-5-DUP	21105042604			FLDDUP		K2S2O6 19e9-
10	4747	MWQ-5-DUP	21105042604			FLDDUP	Field Filtered	
11	4747	MWQ-6	21105042605			SAMPLE		Hg Calib ID
12	4747	MWQ-6	21105042605			SAMPLE	Field Filtered	
13	4747	MWQ-7	21105042606			SAMPLE		0.1 ppm CCV Working Solution
14	4747	MWQ-7	21105042606			SAMPLE	Field Filtered	
15	4747	MWQ-10	21105042607			SAMPLE		0.1 ppm ICV Working Solution
16	4747	MWQ-10	21105042607			SAMPLE	Field Filtered	
17	4747	MWQ-10-MS	21105042608			MS		Hg ICV
18	4747	MWQ-10-MS	21105042608			MS	Field Filtered	
19	4747	MWQ-10-MSD	21105042609			MSD		SPIKE SOLUTIONS (LCS/MS)
20	4747	MWQ-10-MSD	21105042609			MSD	Field Filtered	
21								Hg Spike 100uL / 150uL 19e9-3
22								
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
AL 33 4-9-11	JCL	5-4-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JCL	Tomc	5/6/11

BALANCE ID: _____ TEMP: 05

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 1430	End: 930	BATCH NO:	455984
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 455984 [DIGM/26781]	945531	20	20	MB		HNO3 196 948
2	QC ACCOUNT	LCS for HBN 455984 [DIGM/26781	945532			LCS		H2SO4 196 8-14
3	4747	MWQ2	21105042611			SAMPLE		Aqua Regia
4	4747	MA02MW001D	21105060801			SAMPLE		
5	4747	M114MW004	21105060802			SAMPLE		KMN04 196 9-4
6	4747	M114MW002	21105060805			SAMPLE		
7	4747	EB1	21105060806			EQBK		K2S2O6 196 8-10
8	4747	M114MW003	21105060807			SAMPLE		
9	4747	MA01MW001	21105060810			SAMPLE		Hg Calib ID
10	4747	MA01MW001-MS	21105060811			MS		
11	4747	MA01MW001-MSD	21105060812			MSD		
12	4747	M114MW001	21105060815			SAMPLE		0.1 ppm CCV Working Solution
13	4747	M114MW001-DUP	21105060816			FLDDUP		
14	4747	MAOMW004	21105060818			SAMPLE		0.1 ppm ICV Working Solution
15	4747	MAOMW003	21105060819	↓	↓	SAMPLE		
16								Hg ICV
17								
18								SPIKE SOLUTIONS (LCS/MS)
19								
20								Hg Spike 100uL 150uL 19583-10
21								
22								ORGANOMETALLIC HG SPIKE 0.025g
23								
24								SOLID MATERIAL:
25								
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
AH 33-3-31-11	JCL	5-14-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JCL	Bmc	5/17/11

BALANCE ID: _____ TEMP: 95U

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 1130	End: 1930	BATCH NO:	456158
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456158 [DIGM/26795]	946277	20	20	MB		HNO3 19L948
2	QC ACCOUNT	LCS for HBN 456158 [DIGM/26795	946278			LCS		
3	4747	MWQ2	21105042611			SAMPLE	Field Filtered	H2SO4 19L848
4	4747	MA02MW001D	21105060801			SAMPLE	↓	
5	4747	M114MW004	21105060802			SAMPLE	lab Filtered	Aqua Regia
6	4747	MA01MW001-MS	21105060811			MS	Field Filtered	
7	4747	MA01MW001-MSD	21105060812			MSD		KMNO4 19L10-d
8	4747	M114MW002	21105060805			SAMPLE		
9	4747	EB1	21105060806			EQBK		K2S2O6 19L9-10
10	4747	M114MW003	21105060807			SAMPLE		
11	4747	MA01MW001	21105060810			SAMPLE		Hg Calib ID
12	4747	M114MW001	21105060815			SAMPLE		
13	4747	M114MW001-DUP	21105060816			FLDDUP		0.1 ppm CCV Working Solution
14	4747	MAOMW004	21105060818			SAMPLE		
15	4747	MAOMW003	21105060819	↓	↓	SAMPLE	↓	0.1 ppm ICV Working Solution
16								
17								Hg ICV
18								
19								SPIKE SOLUTIONS (LCS/MS)
20								
21								Hg Spike 100uL 150uL 05-03-11
22								
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
H1 33-331-11	JC	5 12-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JC	fomc	5/12/11

BALANCE ID: _____ TEMP: 95°

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 15:15	End: 17:15	BATCH NO:	456841
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL / g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 456841 [DIGM/26910]	949550	20	20	MB		HNO3 Lot 11-2
2	QC ACCOUNT	LCS for HBN 456841 [DIGM/26910	949551			LCS		
3	4747	MWL6	21105190401			SAMPLE		H2SO4 Lot 8L4
4	QC ACCOUNT	MWL6(948703MS)	949552			MS		
5	QC ACCOUNT	MWL6(948703MSD)	949553			MSD		Aqua Regia
6	4747	MWL6	21105190401	↓	↓	SAMPLE		
7								KMNO4 Lot 10-11
8								
9								K2S2O6 Lot 9-10
10								
11								Hg Calib ID
12								
13								0.1 ppm CCV Working Solution
14								
15								0.1 ppm ICV Working Solution
16								
17								Hg ICV
18								
19								SPIKE SOLUTIONS (LCS/MS)
20								
21								Hg Spike 100uL / 150uL Lot 3
22								
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
AZ 33-33H1	JC	5-23-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JC	[illegible]	5/24/11

BALANCE ID: _____ TEMP: 95°

Revision 1, 08/10/2010

211050426 330

Reprep

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 11:20	End: 13:20	BATCH NO:	457095
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 457095 [DIGM/26953]	950607	20	20	MB		HNO3 196-11-6
2	QC ACCOUNT	LCS for HBN 457095 [DIGM/26953	950608			LCS		
3	4747	MWQ-22	21105042612			SAMPLE		H2SO4 196-11-4
4	4747	MWQ-22	21105042612			SAMPLE	Field Filtered	
5	4747	MWQ-21	21105042613			SAMPLE		Aqua Regia
6	4747	MWQ-21	21105042613			SAMPLE	Field Filtered	
7	4747	MWQ14-MS	21105042617			MS		KMNO4 196-11-7
8	4747	MWQ14-MS	21105042617			MS	Field Filtered	
9	4747	MWQ14-MSD	21105042618			MSD		K2S2O6 196-11-5
10	4747	MWQ14-MSD	21105042618			MSD	Field Filtered	
11	4747	MWQ-19	21105042614			SAMPLE		Hg Calib ID
12	4747	MWQ-19	21105042614			SAMPLE	Field Filtered	
13	4747	MWQ-18	21105042615			SAMPLE		0.1 ppm CCV Working Solution
14	4747	MWQ-18	21105042615			SAMPLE	Field Filtered	
15	4747	MWQ-14	21105042616			SAMPLE		0.1 ppm ICV Working Solution
16	4747	MWQ-14	21105042616			SAMPLE	Field Filtered	
17	4747	MWQ-20	21105042620			SAMPLE		Hg ICV
18	4747	MWQ-20	21105042620			SAMPLE	Field Filtered	
19	4747	MWQ-20 DUP	21105042621			FLDDUP		SPIKE SOLUTIONS (LCS/MS)
20	4747	MWQ-20 DUP	21105042621			FLDDUP	Field Filtered	
21	4747	EB2	21105042622			EQBK		Hg Spike 100ul / 150uL 196-11-3
22	4747	EB2	21105042622	↓	↓	EQBK	Field Filtered	
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
IV 33-4-9-11	JCL	5-25-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JCL	Bmc	5/31/11

BALANCE ID: _____ TEMP: 95°

Revision 1, 08/10/2010

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	430	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:51	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.738	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:44	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 17:14	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	68.3	5.00	1.05	mg/L
14808-79-8	Sulfate	150	10.0	3.95	mg/L

211050426 335

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	145	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

211050426 337

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042601	MWQ-3	Water	05/03/2011 09:15	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:06	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050426 338

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	300	10.0	10.0	mg/L

211050426 339

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:14	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.43	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:45	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/10/2011 17:32	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	17.6	1.00	0.210	mg/L
14808-79-8	Sulfate	59.0	2.00	0.790	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	177	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:16	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042602	MWQ-4	Water	05/03/2011 10:18	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	374	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:18	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.53	0.100	0.026	mg/L-N

211050426 347

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:46	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 17:49	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.8	2.00	0.420	mg/L
14808-79-8	Sulfate	90.8	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	175	1.0	0.21	mg/L CaCO3

211050426 350

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042603	MWQ-5	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:07	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050426 352

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	380	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	05/04/2011 15:19	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	5.19	0.100	0.026	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:48	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:07	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.5	2.00	0.420	mg/L
14808-79-8	Sulfate	91.5	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	170	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:18	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

211050426 358

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042604	MWQ-5-DUP	Water	05/03/2011 11:57	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:09	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050426 359

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	352	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/04/2011 15:20	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.39	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:49	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 18:24	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	21.4	2.00	0.420	mg/L
14808-79-8	Sulfate	85.5	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	160	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042605	MWQ-6	Water	05/03/2011 13:12	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:10	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	480	10.0	10.0	mg/L

211050426 367

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/04/2011 15:21	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.31	0.020	0.005	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:50	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211050426 369

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/10/2011 19:17	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	59.3	5.00	1.05	mg/L
14808-79-8	Sulfate	156	10.0	3.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:19	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042606	MWQ-7	Water	05/03/2011 13:53	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:11	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	390	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:23	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	7.07	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:51	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:35	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	29.3	2.00	0.420	mg/L
14808-79-8	Sulfate	60.6	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	216	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:13	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	5.00B	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042607	MWQ-10	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:14	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050426 390

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:24	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.6	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:55	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.468	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 19:52	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	78.1	2.00	0.420	mg/L
14808-79-8	Sulfate	161	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:14	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	535	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042608	MWQ-10-MS	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:15	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0375	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/04/2011 15:25	AEL	455671

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	16.7	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:56	AEL	455673

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.470	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	05/10/2011 20:10	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	80.9	2.00	0.420	mg/L
14808-79-8	Sulfate	160	4.00	1.58	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:15	MDT	455665

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	531	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042609	MWQ-10-MSD	Water	05/03/2011 15:23	05/04/2011 09:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/06/2011 09:00	455725	SW-846 9012A	1	05/06/2011 14:16	AEL	455832

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0376	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 14:40	DJH	455672

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	388	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042610	MWQ-10-DUP	Water	05/03/2011 15:23	05/04/2011 09:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/04/2011 15:38	DJH	455687

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	220	1.0	0.21	mg/L CaCO3

211050426 392

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7120	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:28	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.244	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:06	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/10/2011 23:42	AEL	455977

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3310	100	21.0	mg/L
14808-79-8	Sulfate	1350	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	83.1	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:36	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.00B	10.0	2.80	ug/L

211050426 398

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042611	MWQ-2	Water	05/05/2011 09:26	05/06/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:10	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	936	10.0	10.0	mg/L

211050426 499

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:01	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.309	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:18	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.011	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 18:29	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	342	20.0	4.20	mg/L
14808-79-8	Sulfate	233	40.0	15.8	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	147	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:39	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042612	MWQ-22	Water	05/11/2011 11:01	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:30	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 15:30	DJH	456221

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	900	10.0	10.0	mg/L

21105042G 407

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/12/2011 16:08	AEL	456222

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	2.44	0.050	0.013	mg/L-N

211050426 408

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 16:22	AEL	456223

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.008B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	05/12/2011 19:04	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	121	10.0	2.10	mg/L
14808-79-8	Sulfate	476	20.0	7.90	mg/L

211050426 410

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:43	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	244	1.0	0.21	mg/L CaCO3

21105042613 411

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 10:40	MDT	456171

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	32.0	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042613	MWQ-21	Water	05/11/2011 13:05	05/12/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:31	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5500	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:02	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:20	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.007B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/16/2011 20:45	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2050	100	21.0	mg/L
14808-79-8	Sulfate	1530	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	302	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:04	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042614	MWQ-19	Water	05/12/2011 09:50	05/13/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:57	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	520	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:05	AEL	456275

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.372	0.010	0.003	mg/L-N

211050426 422

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 12:24	AEL	456278

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/16/2011 21:55	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	40.3	5.00	1.05	mg/L
14808-79-8	Sulfate	110	10.0	3.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

211050426 425

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/13/2011 11:05	JEM	456272

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

211050426 426

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042615	MWQ-18	Water	05/12/2011 12:40	05/13/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:58	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2670	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:31	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.59	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:46	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211050426 430

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/16/2011 21:38	AEL	456395

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	715	50.0	10.5	mg/L
14808-79-8	Sulfate	994	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	133	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042616	MWQ-14	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:59	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:32	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.10	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:48	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.484	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	418	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042617	MWQ14-MS	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:55	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0396	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/14/2011 10:34	AEL	456325

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.08	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:49	AEL	456326

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

211050426 440

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/14/2011 10:40	JEM	456327

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	426	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042618	MWQ14-MSD	Water	05/13/2011 12:31	05/14/2011 09:20

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 10:56	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0398	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	MWQ14-DUP	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2540C-TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 12:50	DJH	456375

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	2590	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042619	MWQ14-DUP	Water	05/13/2011 12:31	05/14/2011 09:20

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/16/2011 13:32	DJH	456413

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	137	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	11900	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:19	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

211050426 446

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:34	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/19/2011 23:50	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6010	200	42.0	mg/L
14808-79-8	Sulfate	1630	400	158	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	55.7	1.0	0.21	mg/L CaCO3

211050426 449

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:16	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

211050426 459

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042620	MWQ-20	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:12	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 14:10	DJH	456780

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	12000	10.0	10.0	mg/L

211050426 452

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 16:23	AEL	456596

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 15:37	AEL	456597

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.006B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	05/20/2011 00:43	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	6090	200	42.0	mg/L
14808-79-8	Sulfate	1480	400	158	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
*			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.9	1.0	0.21	mg/L CaCO3

21105042G 456

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 10:17	JEM	456557

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042621	MWQ-20 DUP	Water	05/17/2011 13:22	05/18/2011 08:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:13	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

21105042G 458

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	10.0	mg/L

211050426 459

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:24	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

211050426 460

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:29	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 01:54	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.071B**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

211050426 462

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:47	DJH	456757

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:08	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105042622	EB2	Water	05/18/2011 10:30	05/19/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:15	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 14:10	DJH	456696

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	658	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 16:20	AEL	456717

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.408	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 15:25	AEL	456715

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.013	0.010	0.003	mg/L-N

211050426 468

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	05/20/2011 01:01	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	107	5.00	1.05	mg/L
14808-79-8	Sulfate	216	10.0	3.95	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/20/2011 07:23	DJH	456752

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	129	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/19/2011 10:09	JEM	456663

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105190401	MWL6	Water	05/18/2011 14:30	05/19/2011 08:55

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:14	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

General Chemistry Quality Control Summary

Analytical Batch 455672	Client ID	MB455672			LCS455672		
Prep Batch N/A	GCAL ID	944157			944158		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:40			05/04/2011 14:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units** Result	mg/L RDL	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	982	98.2	80 - 120

Analytical Batch 455672	Client ID	MWQ-10		MWQ-10-DUP		
Prep Batch N/A	GCAL ID	21105042607		21105042610		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 14:40		05/04/2011 14:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units** Result	mg/L RDL	**Result**	**RPD**	**RPD Limit**
WET-035 Total Dissolved Solids(TDS)		390	10.0	388	0.51	5

Analytical Batch 455813	Client ID	MB455813			LCS455813		
Prep Batch N/A	GCAL ID	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units** Result	mg/L RDL	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	Client ID	MW-10		944726DUP		
Prep Batch N/A	GCAL ID	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units** Result	mg/L RDL	**Result**	**RPD**	**RPD Limit**
WET-035 Total Dissolved Solids(TDS)		1484	10.0	1480	0.41	5

General Chemistry Quality Control Summary

Analytical Batch 456221	Client ID	MB456221			LCS456221		
Prep Batch N/A	GCAL ID	946613			946614		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:30			05/12/2011 15:30		
	Matrix	Water			Water		
SM 2540C TDS		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 456221	Client ID	U43010B		946472DUP		
Prep Batch N/A	GCAL ID	21105121901		946615		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 15:30		05/12/2011 15:30		
	Matrix	Water		Water		
SM 2540C TDS		Units Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		3116	10.0	3120	0.13	5

Analytical Batch 456375	Client ID	MB456375			LCS456375		
Prep Batch N/A	GCAL ID	947391			947392		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/16/2011 12:50			05/16/2011 12:50		
	Matrix	Water			Water		
SM 2540C TDS		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1060	106	80 - 120

Analytical Batch 456375	Client ID	MWQ-14		MWQ14-DUP		
Prep Batch N/A	GCAL ID	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 12:50		05/16/2011 12:50		
	Matrix	Water		Water		
SM 2540C TDS		Units Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		2668	10.0	2590	3	5

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General Chemistry Quality Control Summary

Analytical Batch 456696	Client ID	MB456696			LCS456696		
Prep Batch N/A	GCAL ID	948885			948886		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 14:10			05/19/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	972	97.2	80 - 120

Analytical Batch 456696	Client ID	U4310B		948768DUP		
Prep Batch N/A	GCAL ID	21105191901		948887		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 14:10		05/19/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		Units Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		3728	10.0	3750	0.64	5

Analytical Batch 456780	Client ID	MB456780			LCS456780		
Prep Batch N/A	GCAL ID	949280			949281		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/20/2011 14:10			05/20/2011 14:10		
	Matrix	Water			Water		
SM 2540C TDS		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 456780	Client ID	WS1		949232DUP		
Prep Batch N/A	GCAL ID	21105201404		949282		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/20/2011 14:10		05/20/2011 14:10		
	Matrix	Water		Water		
SM 2540C TDS		Units Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		2622	10.0	2670	1.7	5

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General Chemistry Quality Control Summary

Analytical Batch 455671	Client ID	MB455671			LCS455671		
Prep Batch N/A	GCAL ID	944153			944154		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:48			05/04/2011 14:49		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8	Nitrate	0.003U	0.003	0.500	0.492	98	89.5 -110.5

Analytical Batch 455671	Client ID	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	GCAL ID	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:23			05/04/2011 15:24			05/04/2011 15:25			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8	Nitrate	7.07	0.052	10.0	16.6	96	89.5 -110.5	16.7	96	0.4	25

Analytical Batch 455671	Client ID	SP11A417		943975DUP		
Prep Batch N/A	GCAL ID	21104300413		944155		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 15:09		05/04/2011 15:10		
	Matrix	Water		Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Result	RPD	RPD Limit
14797-55-8	Nitrate	0.000	0.003	0.000	0	25

Analytical Batch 455673	Client ID	MB455673			LCS455673		
Prep Batch N/A	GCAL ID	944164			944165		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 15:41			05/04/2011 15:43		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0	Nitrite	0.003U	0.003	0.500	0.465	93	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 455673	Client ID	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	GCAL ID	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 15:51			05/04/2011 15:55			05/04/2011 15:56			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units** Result	mg/L-N RDL	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-65-0 Nitrite		0.000	0.003	0.500	0.468	94	89.5 -110.5	0.470	94	0.4	25

Analytical Batch 455673	Client ID	SP11A417		943975DUP		
Prep Batch N/A	GCAL ID	21104300413		944166		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/04/2011 16:01		05/04/2011 16:03		
	Matrix	Water		Water		
EPA 353.2 Nitrite		**Units** Result	mg/L-N RDL	**Result**	**RPD**	**RPD Limit**
14797-65-0 Nitrite		0.000	0.003	0.000	0	25

Analytical Batch 455837	Client ID	MB455837			LCS455837		
Prep Batch N/A	GCAL ID	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units** Result	mg/L-N RDL	**Spike Added**	**Result**	**% R**	**Control Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.498	100	89.5 -110.5

Analytical Batch 455837	Client ID	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	GCAL ID	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units** Result	mg/L-N RDL	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-55-8 Nitrate		0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

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General Chemistry Quality Control Summary

Analytical Batch 455838	Client ID	MB455838			LCS455838		
Prep Batch N/A	GCAL ID	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite	**Units**	**Result**	mg/L-N **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
14797-65-0 Nitrite		ND	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 455838	Client ID	MWQ-2			944805MS			944805MSD			
Prep Batch N/A	GCAL ID	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	**Units**	**Result**	mg/L-N **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-65-0 Nitrite		0.000	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

Analytical Batch 456222	Client ID	MB456222			LCS456222		
Prep Batch N/A	GCAL ID	946662			946663		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 15:58			05/12/2011 15:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate	**Units**	**Result**	mg/L-N **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.469	94	89.5 -110.5

Analytical Batch 456222	Client ID	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	GCAL ID	21105042612			946664			946665			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:01			05/12/2011 16:03			05/12/2011 16:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate	**Units**	**Result**	mg/L-N **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
14797-55-8 Nitrate		0.309	0.003	0.500	0.797	97	89.5 -110.5	0.797	97	0	25

353.2 14797-55-8 211050426

General Chemistry Quality Control Summary

Analytical Batch 456223	Client ID	MB456223			LCS456223		
Prep Batch N/A	GCAL ID	946676			946677		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 16:16			05/12/2011 16:17		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0	Nitrite	0.003U	0.003	0.500	0.487	97	89.5 -110.5

Analytical Batch 456223	Client ID	MWQ-22			946321MS			946321MSD			
Prep Batch N/A	GCAL ID	21105042612			946678			946679			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 16:18			05/12/2011 16:19			05/12/2011 16:21			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0	Nitrite	0.011	0.003	0.500	0.502	98	89.5 -110.5	0.501	98	0.2	25

Analytical Batch 456275	Client ID	MB456275			LCS456275		
Prep Batch N/A	GCAL ID	946911			946912		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:58			05/13/2011 11:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8	Nitrate	0.003U	0.003	0.500	0.504	101	89.5 -110.5

Analytical Batch 456275	Client ID	MWQ-19			946851MS			946851MSD			
Prep Batch N/A	GCAL ID	21105042614			946913			946914			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/13/2011 12:02			05/13/2011 12:03			05/13/2011 12:04			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8	Nitrate	0.000	0.003	0.500	0.472	94	89.5 -110.5	0.473	95	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456278 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456278 946917 Method Blank 05/13/2011 12:17 Water			LCS456278 946918 LCS 05/13/2011 12:19 Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0	Nitrite	0.003U	0.003	0.500	0.507	101	89.5 -110.5

Analytical Batch 456278 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-19 21105042614 SAMPLE 05/13/2011 12:20 Water			946851MS 946919 MS 05/13/2011 12:21 Water			946851MSD 946920 MSD 05/13/2011 12:22 Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0	Nitrite	0.007	0.003	0.500	0.547	108	89.5 -110.5	0.549	108	0.4	25

Analytical Batch 456325 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456325 947217 Method Blank 05/14/2011 10:22 Water			LCS456325 947218 LCS 05/14/2011 10:24 Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8	Nitrate	0.003U	0.003	0.500	0.514	103	89.5 -110.5

Analytical Batch 456325 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-14 21105042616 SAMPLE 05/14/2011 10:31 Water			MWQ14-MS 21105042617 MS 05/14/2011 10:32 Water			MWQ14-MSD 21105042618 MSD 05/14/2011 10:34 Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8	Nitrate	1.59	0.013	2.50	4.10	100	89.5 -110.5	4.08	100	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456326 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456326 947219 Method Blank 05/14/2011 10:44 Water			LCS456326 947220 LCS 05/14/2011 10:45 Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.003U	0.003	0.500	0.484	97	89.5 -110.5

Analytical Batch 456326 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-14 21105042616 SAMPLE 05/14/2011 10:46 Water			MWQ14-MS 21105042617 MS 05/14/2011 10:48 Water			MWQ14-MSD 21105042618 MSD 05/14/2011 10:49 Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.002	0.003	0.500	0.484	96	89.5 -110.5	0.479	95	1	25

Analytical Batch 456596 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456596 948435 Method Blank 05/18/2011 16:16 Water			LCS456596 948436 LCS 05/18/2011 16:17 Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.496	99	89.5 -110.5

Analytical Batch 456596 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-20 21105042620 SAMPLE 05/18/2011 16:19 Water			948204MS 948437 MS 05/18/2011 16:41 Water			948204MSD 948438 MSD 05/18/2011 16:42 Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.000	0.003	0.500	0.503	101	89.5 -110.5	0.503	101	0	25

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General Chemistry Quality Control Summary

Analytical Batch 456596	Client ID	LCMW9W01P			948417MS			948417MSD			
Prep Batch N/A	GCAL ID	21105173415			948439			948440			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 16:36			05/18/2011 16:37			05/18/2011 16:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate	Units	mg/L-N	Spike	Result	% R	Control	Result	% R	RPD	RPD
	Result	RDL	Added			Limits % R				Limit
14797-55-8 Nitrate	0.000	0.003	0.500	0.462	92	89.5 -110.5	0.462	92	0.1	25

Analytical Batch 456597	Client ID	MB456597			LCS456597		
Prep Batch N/A	GCAL ID	948441			948442		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/18/2011 15:31			05/18/2011 15:32		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result		Control	
	Result	RDL	Added		% R	Limits % R	
14797-65-0 Nitrite	0.003U	0.003	0.500	0.475	95	89.5 -110.5	

Analytical Batch 456597	Client ID	MWQ-20			948204MS			948204MSD			
Prep Batch N/A	GCAL ID	21105042620			948443			948444			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/18/2011 15:34			05/18/2011 15:35			05/18/2011 15:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result	% R	Control	Result	% R	RPD	RPD
	Result	RDL	Added			Limits % R				Limit
14797-65-0 Nitrite	0.006	0.003	0.500	0.485	96	89.5 -110.5	0.484	95	0.2	25

Analytical Batch 456715	Client ID	MB456715			LCS456715		
Prep Batch N/A	GCAL ID	948964			948965		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 15:23			05/19/2011 15:24		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result		Control	
	Result	RDL	Added		% R	Limits % R	
14797-65-0 Nitrite	0.003U	0.003	0.500	0.470	94	89.5 -110.5	

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General Chemistry Quality Control Summary

Analytical Batch 456715	Client ID	MWL6			948703MS			948703MSD			
Prep Batch N/A	GCAL ID	21105190401			948966			948967			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 15:25			05/19/2011 15:26			05/19/2011 15:28			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.013	0.003	0.500	0.481	94	89.5 -110.5	0.476	93	1	25

Analytical Batch 456717	Client ID	MB456717			LCS456717		
Prep Batch N/A	GCAL ID	948972			948973		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/19/2011 16:16			05/19/2011 16:18		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.495	99	89.5 -110.5

Analytical Batch 456717	Client ID	MWL6			948703MS			948703MSD			
Prep Batch N/A	GCAL ID	21105190401			948974			948975			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/19/2011 16:20			05/19/2011 16:21			05/19/2011 16:23			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.408	0.003	0.500	0.930	104	89.5 -110.5	0.918	102	1	25

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General Chemistry Quality Control Summary

Analytical Batch 455977	Client ID	MB455977			LCS455977		
Prep Batch N/A	GCAL ID	945498			945499		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 09:13			05/10/2011 09:31		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6 Chloride		0.021U	0.021	2.50	2.40	95.9	79 - 109
14808-79-8 Sulfate		0.079U	0.079	5.00	4.68	93.6	82 - 110

Analytical Batch 455977	Client ID	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	GCAL ID	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 19:35			05/10/2011 19:52			05/10/2011 20:10			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
16887-00-6 Chloride		29.3	0.420	50.0	78.1	97.6	79 - 109	80.9	103	3.5	15
14808-79-8 Sulfate		60.6	1.58	100	161	100	82 - 110	160	99.7	0.14	15

Analytical Batch 456165	Client ID	MB456165			LCS456165		
Prep Batch N/A	GCAL ID	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6 Chloride		0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8 Sulfate		0.079U	0.079	5.00	5.05	101	82 - 110

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General Chemistry Quality Control Summary

Analytical Batch	456165	Client ID	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	N/A	GCAL ID	21105060810			21105060811			21105060812			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16			
		Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units	mg/L	Spike	Result		Control	Result			RPD
		Result	RDL	Added		% R	Limits % R		% R	RPD	Limit
16887-00-6	Chloride	651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate	704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch	456395	Client ID	MB456395			LCS456395		
Prep Batch	N/A	GCAL ID	947473			947474		
		Sample Type	Method Blank			LCS		
		Analytical Date	05/16/2011 18:06			05/16/2011 18:24		
		Matrix	Water			Water		
EPA 300.0 Inorganic Anions		Units	mg/L	Spike	Result		Control
		Result	RDL	Added		% R	Limits % R
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.5	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.12	102	82 - 110

Analytical Batch	456395	Client ID	MWQ-18			946852MS			946852MSD			
Prep Batch	N/A	GCAL ID	21105042615			957351			957352			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	05/16/2011 21:55			05/16/2011 22:13			05/16/2011 22:30			
		Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units	mg/L	Spike	Result		Control	Result			RPD
		Result	RDL	Added		% R	Limits % R		% R	RPD	Limit
16887-00-6	Chloride	40.3	1.05	125	161	96.9	79 - 109	161	96.8	0.14	15
14808-79-8	Sulfate	110	3.95	250	365	102	82 - 110	366	102	0.025	15

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General Chemistry Quality Control Summary

Analytical Batch 456669	Client ID	MB456669	LCS456669
Prep Batch N/A	GCAL ID	948789	948790
	Sample Type	Method Blank	LCS
	Analytical Date	05/19/2011 17:40	05/19/2011 17:58
	Matrix	Water	Water

EPA 300.0 Inorganic Anions		Units	mg/L	Spike			Control	
		Result	RDL	Added	Result	% R	Limits % R	
16887-00-6	Chloride	0.021U	0.021	2.50	2.41	96.4	79 - 109	
14808-79-8	Sulfate	0.079U	0.079	5.00	4.91	98.3	82 - 110	

Analytical Batch 456669	Client ID	E16A	946542MS	946542MSD
Prep Batch N/A	GCAL ID	21105122833	948791	948792
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/19/2011 18:15	05/19/2011 18:33	05/19/2011 18:51
	Matrix	Water	Water	Water

EPA 300.0 Inorganic Anions		Units	mg/L	Spike			Control				RPD
		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
16887-00-6	Chloride	123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate	76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669	Client ID	MWL6	948703MS	948703MSD
Prep Batch N/A	GCAL ID	21105190401	948793	948794
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/20/2011 01:01	05/20/2011 01:18	05/20/2011 01:36
	Matrix	Water	Water	Water

EPA 300.0 Inorganic Anions		Units	mg/L	Spike			Control				RPD
		Result	RDL	Added	Result	% R	Limits % R	Result	% R	RPD	Limit
16887-00-6	Chloride	107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate	216	3.95	250	470	102	82 - 110	468	101	0.49	15

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General Chemistry Quality Control Summary

Analytical Batch 455687	Client ID	LCS455687
Prep Batch N/A	GCAL ID	944291
	Sample Type	LCS
	Analytical Date	05/04/2011 15:38
	Matrix	Water

SM 2320B Alkalinity	Spike Added	Result	% R	Control Limits % R
000000-00-5 Total Alkalinity	200	203	101	80 - 120

Analytical Batch 455687	Client ID	MWQ-10	MWQ-10-DUP
Prep Batch N/A	GCAL ID	21105042607	21105042610
	Sample Type	SAMPLE	DUP
	Analytical Date	05/04/2011 15:38	05/04/2011 15:38
	Matrix	Water	Water

SM 2320B Alkalinity	Units / Result	mg/L CaCO3 / RDL	Result	RPD	RPD Limit
000000-00-5 Total Alkalinity	216.38	0.21	220	2	11

Analytical Batch 455965	Client ID	LCS455965
Prep Batch N/A	GCAL ID	945466
	Sample Type	LCS
	Analytical Date	05/09/2011 11:15
	Matrix	Water

SM 2320B Alkalinity	Spike Added	Result	% R	Control Limits % R
000000-00-5 Total Alkalinity	200	206	103	80 - 120

Analytical Batch 455965	Client ID	M114MW002	945264DUP
Prep Batch N/A	GCAL ID	21105060805	945467
	Sample Type	SAMPLE	DUP
	Analytical Date	05/09/2011 11:15	05/09/2011 11:15
	Matrix	Water	Water

SM 2320B Alkalinity	Units / Result	mg/L CaCO3 / RDL	Result	RPD	RPD Limit
000000-00-5 Total Alkalinity	69.15	0.21	70.4	2	11

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General Chemistry Quality Control Summary

Analytical Batch 456175	Client ID	LCS456175			
Prep Batch N/A	GCAL ID	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456175	Client ID	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	GCAL ID	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 09:24		05/12/2011 09:24		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		169.49	0.21	171	0.8	11

Analytical Batch 456413	Client ID	LCS456413			
Prep Batch N/A	GCAL ID	947547			
	Sample Type	LCS			
	Analytical Date	05/16/2011 13:32			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

Analytical Batch 456413	Client ID	MWQ-14		MWQ14-DUP		
Prep Batch N/A	GCAL ID	21105042616		21105042619		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/16/2011 13:32		05/16/2011 13:32		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units**	mg/L CaCO3	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-00-5 Total Alkalinity		133.08	0.21	137	3	11

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General Chemistry Quality Control Summary

Analytical Batch 456595	Client ID	LCS456595
Prep Batch N/A	GCAL ID	948433
	Sample Type	LCS
	Analytical Date	05/18/2011 14:07
	Matrix	Water

SM 2320B Alkalinity	Spike Added	Result	% R	Control Limits % R
000000-00-5 Total Alkalinity	200	200	100	80 - 120

Analytical Batch 456595	Client ID	TK-471	948229DUP
Prep Batch N/A	GCAL ID	21105181102	948434
	Sample Type	SAMPLE	DUP
	Analytical Date	05/18/2011 14:07	05/18/2011 14:07
	Matrix	Water	Water

SM 2320B Alkalinity	Units	mg/L CaCO3	Result	RPD	RPD Limit
	Result	RDL			
000000-00-5 Total Alkalinity	308.32	0.21	309	0.3	11

Analytical Batch 456752	Client ID	LCS456752
Prep Batch N/A	GCAL ID	949143
	Sample Type	LCS
	Analytical Date	05/20/2011 07:23
	Matrix	Water

SM 2320B Alkalinity	Spike Added	Result	% R	Control Limits % R
000000-00-5 Total Alkalinity	200	201	100	80 - 120

Analytical Batch 456752	Client ID	MWL6	948703DUP
Prep Batch N/A	GCAL ID	21105190401	949144
	Sample Type	SAMPLE	DUP
	Analytical Date	05/20/2011 07:23	05/20/2011 07:23
	Matrix	Water	Water

SM 2320B Alkalinity	Units	mg/L CaCO3	Result	RPD	RPD Limit
	Result	RDL			
000000-00-5 Total Alkalinity	128.58	0.21	133	3	11

General Chemistry Quality Control Summary

Analytical Batch 456757 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	LCS456757 949156 LCS 05/20/2011 07:47 Water				LCSD456757 949157 LCSD 05/20/2011 07:47 Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	9.8	98	80 - 120	10.3	103	5	11

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General Chemistry Quality Control Summary

Analytical Batch 455665	Client ID	MB455665			LCS455665		
Prep Batch N/A	GCAL ID	944121			944122		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/04/2011 14:12			05/04/2011 14:13		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	493	99	80 - 120

Analytical Batch 455665	Client ID	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch N/A	GCAL ID	21105042607			21105042608			21105042609			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/04/2011 14:13			05/04/2011 14:14			05/04/2011 14:15			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
18540-29-9 Chromium VI		5.00	2.80	500	535	106	80 - 120	531	105	0.8	20

Analytical Batch 455820	Client ID	MB455820			LCS455820		
Prep Batch N/A	GCAL ID	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	Client ID	M114MW004			944807MS			944807MSD			
Prep Batch N/A	GCAL ID	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
18540-29-9 Chromium VI		0.000	2.80	500	453	91	80 - 120	457	91	0.9	20

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General Chemistry Quality Control Summary

Analytical Batch 456171	Client ID	MB456171			LCS456171		
Prep Batch N/A	GCAL ID	946326			946327		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 10:37			05/12/2011 10:38		
	Matrix	Water			Water		
SW-846 7196A Chromium VI	**Units**	**ug/L**	**Spike**	**Result**		**Control**	
	Result	**RDL**	**Added**		**% R**	**Limits % R**	
18540-29-9 Chromium VI	2.80U	2.80	500	455	91	80 - 120	

Analytical Batch 456171	Client ID	MWQ-22			946321MS		
Prep Batch N/A	GCAL ID	21105042612			946328		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/12/2011 10:39			05/12/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI	**Units**	**ug/L**	**Spike**	**Result**		**Control**	
	Result	**RDL**	**Added**		**% R**	**Limits % R**	
18540-29-9 Chromium VI	0.000	2.80	500	502	100	80 - 120	

Analytical Batch 456171	Client ID	MWQ-22		946321DUP		
Prep Batch N/A	GCAL ID	21105042612		946329		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 10:39		05/12/2011 10:40		
	Matrix	Water		Water		
SW-846 7196A Chromium VI	**Units**	**ug/L**	**Result**		**RPD**	
	Result	**RDL**		**RPD**	**Limit**	
18540-29-9 Chromium VI	0.000	2.80	0.000	0	25	

Analytical Batch 456272	Client ID	MB456272			LCS456272		
Prep Batch N/A	GCAL ID	946901			946902		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/13/2011 11:02			05/13/2011 11:02		
	Matrix	Water			Water		
SW-846 7196A Chromium VI	**Units**	**ug/L**	**Spike**	**Result**		**Control**	
	Result	**RDL**	**Added**		**% R**	**Limits % R**	
18540-29-9 Chromium VI	2.80U	2.80	500	506	101	80 - 120	

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General Chemistry Quality Control Summary

Analytical Batch 456272	Client ID	MWQ-18			946852MS		
Prep Batch N/A	GCAL ID	21105042615			946904		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/13/2011 11:05			05/13/2011 11:06		
	Matrix	Water			Water		
SW-846 7196A Chromium VI	**Units**	**Result**	**ug/L RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9 Chromium VI		0.000	2.80	500	475	95	80 - 120

Analytical Batch 456272	Client ID	MWQ-18		946852DUP		
Prep Batch N/A	GCAL ID	21105042615		946903		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/13/2011 11:05		05/13/2011 11:05		
	Matrix	Water		Water		
SW-846 7196A Chromium VI	**Units**	**Result**	**ug/L RDL**	**Result**	**RPD**	**RPD Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

Analytical Batch 456327	Client ID	MB456327			LCS456327		
Prep Batch N/A	GCAL ID	947221			947222		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/14/2011 10:39			05/14/2011 10:39		
	Matrix	Water			Water		
SW-846 7196A Chromium VI	**Units**	**Result**	**ug/L RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9 Chromium VI		2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456327	Client ID	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch N/A	GCAL ID	21105042616			21105042617			21105042618			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/14/2011 10:40			05/14/2011 10:40			05/14/2011 10:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI	**Units**	**Result**	**ug/L RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
18540-29-9 Chromium VI		0.000	2.80	500	418	84	80 - 120	426	85	2	20

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General Chemistry Quality Control Summary

Analytical Batch 456557 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456557 948220 Method Blank 05/18/2011 10:14 Water			LCS456557 948221 LCS 05/18/2011 10:15 Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	545	109	80 - 120

Analytical Batch 456557 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-20 21105042620 SAMPLE 05/18/2011 10:16 Water			948204MS 948223 MS 05/18/2011 10:16 Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9	Chromium VI	0.000	2.80	500	555	111	80 - 120

Analytical Batch 456557 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MWQ-20 21105042620 SAMPLE 05/18/2011 10:16 Water		948204DUP 948222 DUP 05/18/2011 10:16 Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Result**	**RPD**	**RPD Limit**
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456663 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456663 948723 Method Blank 05/19/2011 10:07 Water			LCS456663 948724 LCS 05/19/2011 10:08 Water		
SW-846 7196A Chromium VI		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
18540-29-9	Chromium VI	2.80U	2.80	500	499	100	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456663	**Client ID**	MWL6			948703MS		
Prep Batch N/A	**GCAL ID**	21105190401			948726		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/19/2011 10:09			05/19/2011 10:10		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
18540-29-9 Chromium VI		0.000	2.80	500	496	99	80 - 120

Analytical Batch 456663	**Client ID**	MWL6		948703DUP		
Prep Batch N/A	**GCAL ID**	21105190401		948725		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/19/2011 10:09		05/19/2011 10:09		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units**	ug/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

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General Chemistry Quality Control Summary

Analytical Batch	455832	Client ID	MB455725			LCS455725		
Prep Batch	455725	GCAL ID	944419			944420		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCS		
		Prep Date	05/06/2011 09:00			05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03			05/06/2011 14:04		
		Matrix	Water			Water		
SW-846 9012A Cyanide		Units	mg/L	Spike	Result		Control
		Result	RDL	Added		% R	Limits % R
57-12-5	Total Cyanide	0.0006U	0.0006	0.0200	0.0165	82	80 - 120

Analytical Batch	455832	Client ID	MB455725			LCSHI455725		
Prep Batch	455725	GCAL ID	944419			944421		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCSHI		
		Prep Date	05/06/2011 09:00			05/06/2011 09:00		
		Analytical Date	05/06/2011 14:03			05/06/2011 14:05		
		Matrix	Water			Water		
SW-846 9012A Cyanide		Units	mg/L	Spike	Result		Control
		Result	RDL	Added		% R	Limits % R
57-12-5	Total Cyanide	0.0006U	0.0006	0.1000	0.0833	83	80 - 120

Analytical Batch	455832	Client ID	MWQ-10			MWQ-10-MS			MWQ-10-MSD			
Prep Batch	455725	GCAL ID	21105042607			21105042608			21105042609			
Prep Method	SW-846 9012A	Sample Type	SAMPLE			MS			MSD			
		Prep Date	05/06/2011 09:00			05/06/2011 09:00			05/06/2011 09:00			
		Analytical Date	05/06/2011 14:14			05/06/2011 14:15			05/06/2011 14:16			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide		Units	mg/L	Spike	Result		Control	Result			RPD
		Result	RDL	Added		% R	Limits % R		% R	RPD	Limit
57-12-5	Total Cyanide	0.0000	0.0006	0.0500	0.0375	75*	80 - 120	0.0376	75*	0.3	20

211050426 GCAL 454

General Chemistry Quality Control Summary

Analytical Batch	456300	**Client ID**	MB455936			LCS455936		
Prep Batch	455936	**GCAL ID**	945393			945394		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCS		
		Prep Date	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 16:08		
		Matrix	Water			Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
57-12-5	Total Cyanide	0.0006U	0.0006	0.0200	0.0214	107	80 - 120	

Analytical Batch	456300	**Client ID**	MB455936			LCSHI455936		
Prep Batch	455936	**GCAL ID**	945393			945395		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCSHI		
		Prep Date	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 17:15		
		Matrix	Water			Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
57-12-5	Total Cyanide	0.0006U	0.0006	0.1000	0.1174	117	80 - 120	

Analytical Batch	456300	**Client ID**	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455936	**GCAL ID**	21105060810			21105060811			21105060812			
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/13/2011 16:22			05/13/2011 16:23			05/13/2011 16:24			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**		**RPD**	**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**		**Limit**	
57-12-5	Total Cyanide	0.0000	0.0006	0.0500	0.0473	95	80 - 120	0.0481	96	2	20	

154 5246225 211050426

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MB456439			LCS456439		
Prep Batch	456439	**GCAL ID**	947658			947659		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCS		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:51		
		Matrix	Water			Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
57-12-5	Total Cyanide	0.0006U	0.0006	0.0200	0.0176	88	80 - 120	

Analytical Batch	456904	**Client ID**	MB456439			LCSHI456439		
Prep Batch	456439	**GCAL ID**	947658			947660		
Prep Method	SW-846 9012A	**Sample Type**	Method Blank			LCSHI		
		Prep Date	05/19/2011 16:30			05/19/2011 16:30		
		Analytical Date	05/23/2011 10:50			05/23/2011 10:52		
		Matrix	Water			Water		
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
57-12-5	Total Cyanide	0.0006U	0.0006	0.1000	0.0872	87	80 - 120	

Analytical Batch	456904	**Client ID**	MWQ-14			MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	**GCAL ID**	21105042616			21105042617			21105042618			
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE			MS			MSD			
		Prep Date	05/19/2011 16:30			05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59			05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**		**RPD**	**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**		**Limit**	
57-12-5	Total Cyanide	0.0000	0.0006	0.0500	0.0396	**79***	80 - 120	0.0398	80	0.5	20	

21105042326 4554

General Chemistry Quality Control Summary

Analytical Batch	456904	**Client ID**	MWQ-14		947214DUP		
Prep Batch	456439	**GCAL ID**	21105042616		947661		
Prep Method	SW-846 9012A	**Sample Type**	SAMPLE		DUP		
		Prep Date	05/19/2011 16:30		05/19/2011 16:30		
		Analytical Date	05/23/2011 10:59		05/23/2011 11:00		
		Matrix	Water		Water		
SW-846 9012A Cyanide		**Units**	mg/L		**Result**		**RPD**
		Result	**RDL**			**RPD**	**Limit**
57-12-5	Total Cyanide	0.0000	0.0006		0.0000	0	25

211050426 GCAL 425

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-4-11

HBN #: 455671 / 455673

Batch #: 9523 / 9524

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	101
LCS NO3 X 100 / LCS NO2	

Reviewed By: Bmc 5/5/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0007	0	0.0007	
LCS	0.4916	0.4649	0.4916	98
2110504260l	0.7376	0	0.7376	
2110504260Z	3.4289	0	3.4289	
2110504260 3	5.5369	0.0042	5.5327	
2110504260 4	5.1901	0	5.1901	
2110504260 5	3.3864	0	3.3864	
2110504260 6	1.3136	0.0003	1.3133	
2110504260 7	7.0747	0.0020	7.0727	
2110504260 8 ms	16.6306	0.4676	16.6286	96
2110504260 9 msd	16.6905	0.4695	16.6885	96
2110430040 9	1.0702	0	1.0702	
2110430041 0	0.9515	0.0015	AG 5-6-11 0.9500	
2110430041 1	0.5293	0	0.5293	
2110430041 3	0	0	0	
dup	0	0.0014	0	
ms	0.4901	0.4593	0.4901	98
2110 X 5043501	37.7612	0.0417	37.7195	
AG 5-9-11				

N+N minus NO2 equals NO3

Author: AEL

Date : 05/04/2011

Original Run Filename: OM_05-04-2011_14-45-01.OMN created 05/04/2011 14:45:01
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-04-2011_14-45-01.OMN last modified 05/04/2011 15:32:17
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4910	05/04/2011@14:45:42		98
Known Conc:		0.5000			
1900	1	0.0018	05/04/2011@14:46:57		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
944153 blk	1	0.0007	05/04/2011@14:48:12		
944154 lcc	1	0.4916	05/04/2011@14:49:27		98
LCS N02	1	0.4862	05/04/2011@14:50:41		97
21105042601	1	0.7376	05/04/2011@14:51:56		
21105042602	1	3.9381	05/04/2011@14:53:11		RR
21105042603	1	5.7648	05/04/2011@14:54:25		RR
21105042604	1	5.7766	05/04/2011@14:55:39		RR
21105042605	1	3.9398	05/04/2011@14:56:54		RR
21105042606	1	1.4825	05/04/2011@14:58:08		RR
21105042607	1	6.9384	05/04/2011@14:59:22		RR
1800	1	0.5025	05/04/2011@15:00:37		100
Known Conc:		0.5000			
1900	1	-0.0005	05/04/2011@15:01:51		
Known Conc:		0.0000			
21105042608 ms	1	7.0341	05/04/2011@15:03:05		RR
21105042609 msd	1	7.0305	05/04/2011@15:04:21		RR
21104300409	1	1.2118	05/04/2011@15:05:36		
21104300410	1	0.9515	05/04/2011@15:06:52		
21104300411	1	0.5293	05/04/2011@15:08:07		
21104300413	1	-0.0014	05/04/2011@15:09:22		
944155 mp	1	-0.0010	05/04/2011@15:10:38		AR
944156 ms	1	0.4061	05/04/2011@15:11:53		
21105043501	1	37.7612	05/04/2011@15:13:08	50.00	
21105042602	1	3.4289	05/04/2011@15:14:24	5.00	
1800	1	0.4927	05/04/2011@15:15:37		98
Known Conc:		0.5000			
1900	1	-0.0005	05/04/2011@15:16:52		
Known Conc:		0.0000			
21105042603	1	5.5369	05/04/2011@15:18:07	10.00	
21105042604	1	5.1901	05/04/2011@15:19:21	10.00	
21105042605	1	3.3864	05/04/2011@15:20:35	5.00	
21105042606	1	1.3136	05/04/2011@15:21:50	2.00	
21105042607	1	7.0747	05/04/2011@15:23:10	20.00	
21105042608 ms	1	16.6306	05/04/2011@15:24:31	20.00	96
21105042609 msd	1	16.6905	05/04/2011@15:25:46	20.00	96
21104300409	1	1.0702	05/04/2011@15:27:01	2.00	
944156 ms	1	0.4901	05/04/2011@15:28:16		98
1800	1	0.4956	05/04/2011@15:29:31		99
Known Conc:		0.5000			
1900	1	-0.0013	05/04/2011@15:30:45		
Known Conc:		0.0000			

21105042G 592

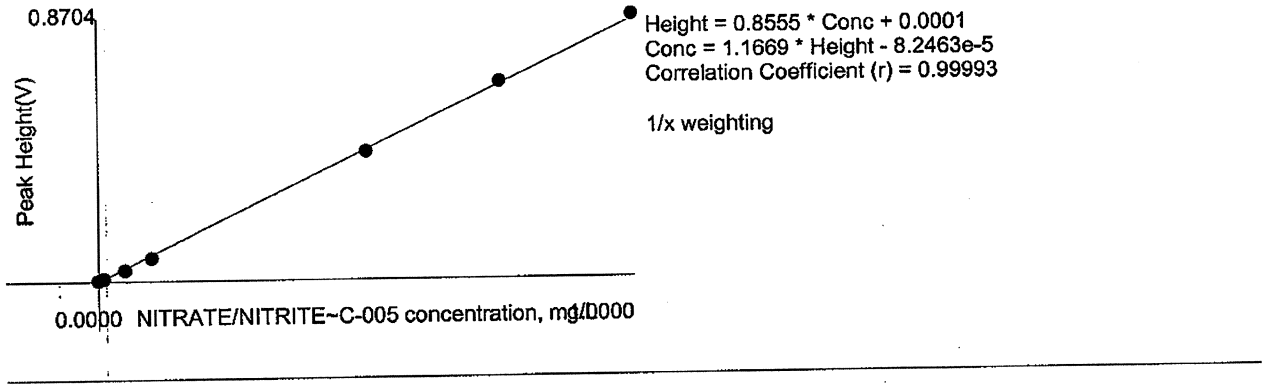
Author: AEL

Date : 05/04/2011

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21050426 503

Author: AEL

Date : 05/04/2011

Original Run Filename: OM_05-04-2011_15-38-33.OMN created 05/04/2011 15:38:33
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-04-2011_15-38-33.OMN last modified 05/04/2011 16:09:22
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.4581	05/04/2011@15:39:15		92
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0015	05/04/2011@15:40:31		
Known Conc:		0.0000			
944164 BLK	1	-0.0034	05/04/2011@15:41:47		
944165 LCS	1	0.4649	05/04/2011@15:43:01		93
21105042601	1	-0.0049	05/04/2011@15:44:17		
21105042602	1	-0.0007	05/04/2011@15:45:33		
21105042603	1	0.0042	05/04/2011@15:46:48		
21105042604	1	-0.0023	05/04/2011@15:48:03		
21105042605	1	-0.0087	05/04/2011@15:49:17		
21105042606	1	0.0003	05/04/2011@15:50:32		
21105042607	1	0.0020	05/04/2011@15:51:47		
1800	1	0.4680	05/04/2011@15:53:03		94
Known Conc:		0.5000			
1900	1	-0.0028	05/04/2011@15:54:17		
Known Conc:		0.0000			
21105042608 MS	1	0.4676	05/04/2011@15:55:31		93
21105042609 MSD	1	0.4695	05/04/2011@15:56:47		94
21104300409	1	-0.0045	05/04/2011@15:58:04		
21104300410	1	0.0015	05/04/2011@15:59:19		
21104300411	1	-0.0041	05/04/2011@16:00:34		
21104300413	1	-0.0010	05/04/2011@16:01:51		
944166 DUP	1	0.0014	05/04/2011@16:03:07		
944167 MS	1	0.4593	05/04/2011@16:04:22		92
21105043501	1	0.0417	05/04/2011@16:05:36		
1800	1	0.4673	05/04/2011@16:06:51		93
Known Conc:		0.5000			
1900	1	-0.0027	05/04/2011@16:08:06		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

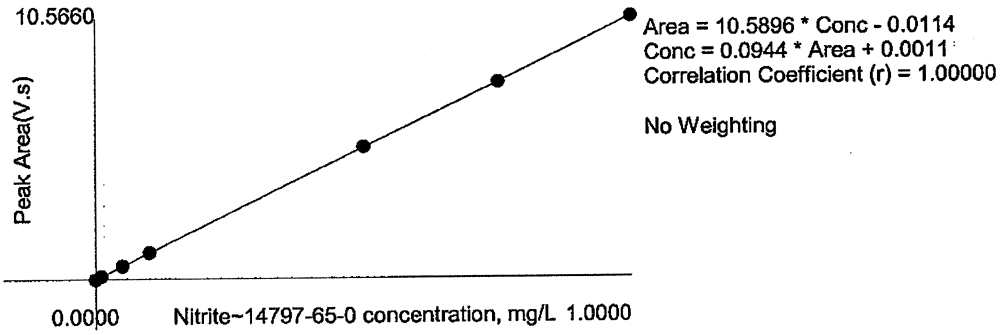
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

21105042G 594

Author: AEL

Date : 05/04/2011

Figure 1: Nitrite~14797-65-0



211050426 505

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-6-11

HBN #: 455837 / 455838 / 455840

Batch #: 9532 / 9537 / 9534

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	101

Reviewed By: BMC 5/6/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0025	0	0.0025	
LCS	0.4982	0.5070	0.4982	100
21105042611	0.2435	0	0.2435	
MS	0.7521	0.4906	0.7521	102
MSD	0.7505	0.4902	0.7505	101
21105060801	1.5680	0.0039	1.5641	
21105060802	0.9045	0.0044	0.9001	

N+N minus NO2 equals NO3

211050426 507

Author: AEL

Date : 05/06/2011

Original Run Filename: OM_05-06-2011_15-21-06.OMN created 05/06/2011 15:21:06
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_15-21-06.OMN last modified 05/06/2011 15:53:24
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4970	05/06/2011@15:21:47		99
Known Conc:		0.5000			
1900	1	0.0037	05/06/2011@15:23:03		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
944981 BLK	1	0.0025	05/06/2011@15:24:18		
944982 LCS	1	0.4982	05/06/2011@15:25:33		100
LCS N02	1	0.4915	05/06/2011@15:26:48		98
21105042611	1	0.2435	05/06/2011@15:28:04		
944983 MS	1	0.7521	05/06/2011@15:29:19		102
944984 MSD	1	0.7505	05/06/2011@15:30:34		101
21105060801	1	4.3703	05/06/2011@15:31:49		-RR
21105060802	1	0.9045	05/06/2011@15:33:04		
944991 BLK	1	0.0032	05/06/2011@15:34:19		
944992 LCS	1	0.5002	05/06/2011@15:35:34		100
1800	1	0.5032	05/06/2011@15:36:48		101
Known Conc:		0.5000			
1900	1	0.0036	05/06/2011@15:38:03		
Known Conc:		0.0000			
21105045001	1	-0.5201	05/06/2011@15:39:17	10.00	
21105050801	1	5.7879	05/06/2011@15:40:33	50.00	
944993 MS	1	31.6656	05/06/2011@15:41:49	50.00	-RR
944994 MSD	1	31.6358	05/06/2011@15:43:05	50.00	
21105060802	1	0.2584	05/06/2011@15:44:20	10.00	- First run OK
21105050801	1	6.9832	05/06/2011@15:45:36	20.00	
944993 MS	1	17.2318	05/06/2011@15:46:51	20.00	102
944994 MSD	1	17.2002	05/06/2011@15:48:06	20.00	102
21105060801	1	1.3932	05/06/2011@15:49:21	10.00	-RR
1800	1	0.4993	05/06/2011@15:50:36		100
Known Conc:		0.5000			
1900	1	0.0005	05/06/2011@15:51:52		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

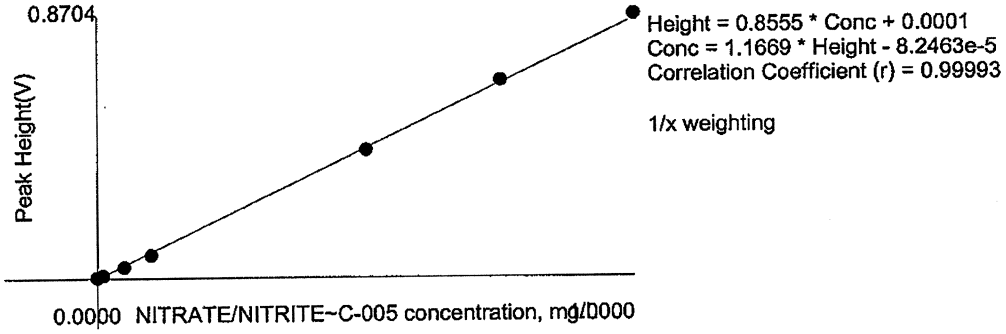
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

21105042G 598

Author: AEL

Date : 05/06/2011

Figure 1: NITRATE/NITRITE~C-005



Height = 0.8555 * Conc + 0.0001
Conc = 1.1669 * Height - 8.2463e-5
Correlation Coefficient (r) = 0.99993

1/x weighting

21105426 589

Author: AEL

Date : 05/06/2011

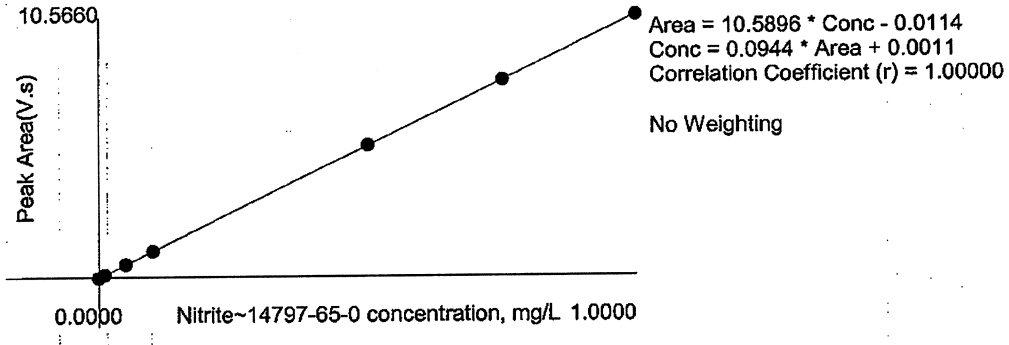
Original Run Filename: OM_05-06-2011_16-01-04.OMN created 05/06/2011 16:01:04
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_16-01-04.OMN last modified 05/06/2011 16:15:19
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5059	05/06/2011@16:01:45		101
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0046	05/06/2011@16:03:01		
Known Conc:		0.0000			
944985 BIH	1	-0.0003	05/06/2011@16:04:16		
944986 LCS	1	0.5070	05/06/2011@16:05:31		101
21105042611	1	-0.0016	05/06/2011@16:06:47		
944987 MS	1	0.4906	05/06/2011@16:08:01		98
944988 MSD	1	0.4902	05/06/2011@16:09:16		98
21105060801	1	0.0039	05/06/2011@16:10:31		
21105060802	1	0.0044	05/06/2011@16:11:46		
1800	1	0.5118	05/06/2011@16:12:59		102
Known Conc:		0.5000			
1900	1	0.0002	05/06/2011@16:14:14		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105042G 510

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-12-11

HBN #: 456222 / 456223

Batch #: 9554 / 9555

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	100

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

Reviewed By: Bmc 5/13/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0002	0.0019	0.0002	
LCS	0.4693	0.4866	0.4693	94
2110504 2612	0.3203	0.0110	0.3093	
MS	0.8075	0.5021	0.7965	97
MSD	0.8075	0.5009	0.7965	97
2110504 2613	2.4460	0.0077	2.4383	
2110512 2501	0	0.0324	0	

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/12/2011

Original Run Filename: OM_05-12-2011_15-54-59.OMN created 05/12/2011 15:54:59
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-12-2011_15-54-59.OMN last modified 05/12/2011 16:12:19
Current Run Author's Signature: [AEL]
Description: Default New Run

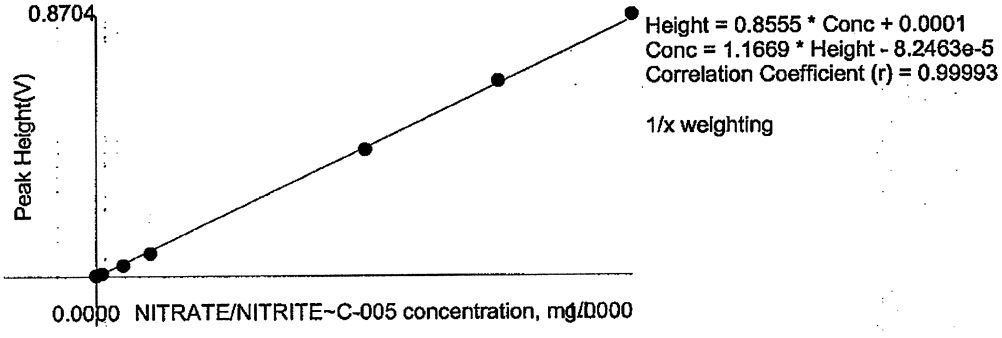
Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4664	05/12/2011@15:55:40		97
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0002	05/12/2011@15:56:56		
Known Conc:		0.0000			
946662 blk	1	0.0002	05/12/2011@15:58:14		
946663 LCS	1	0.4693	05/12/2011@15:59:29		94
LCS N02	1	0.4673	05/12/2011@16:00:44		93
21105042612	1	0.3203	05/12/2011@16:01:59		
946664 MI	1	0.8075	05/12/2011@16:03:16		97
946665 MSD	1	0.8075	05/12/2011@16:04:30		97
21105042613	1	2.5816	05/12/2011@16:05:49		-RA
21105122501	1	-0.0214	05/12/2011@16:07:04		
21105042613	1	2.4460	05/12/2011@16:08:18	5.00	
1800	1	0.4697	05/12/2011@16:09:33		94
Known Conc:		0.5000			
1900	1	-0.0002	05/12/2011@16:10:48		
Known Conc:		0.0000			

Slowly was lb. drained & filtered but to M.L.

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



Author: AEL

Date : 05/12/2011

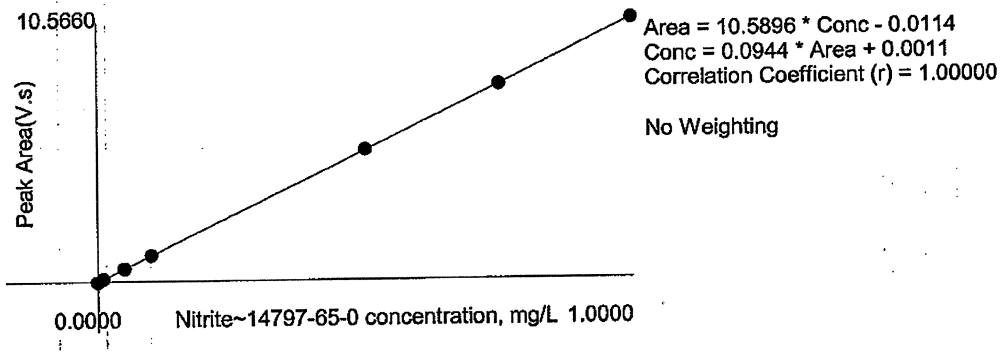
Original Run Filename: OM_05-12-2011_16-12-51.OMN created 05/12/2011 16:12:51
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-12-2011_16-12-51.OMN last modified 05/12/2011 16:27:07
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5008	05/12/2011@16:13:32		100
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0014	05/12/2011@16:14:48		
Known Conc:		0.0000			
946662 DUP	1	0.0019	05/12/2011@16:16:03		
946663 LCS	1	0.4866	05/12/2011@16:17:18		97
21105042612	1	0.0110	05/12/2011@16:18:34		
946664 MS	1	0.5021	05/12/2011@16:19:49		98
946665 MSD	1	0.5009	05/12/2011@16:21:04		98
21105042613	1	0.0077	05/12/2011@16:22:18		
21105122501	1	0.0324	05/12/2011@16:23:33		
1800	1	0.5004	05/12/2011@16:24:47		100
Known Conc:		0.5000			
1900	1	0.0012	05/12/2011@16:26:01		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



211050426 514

LACHAT STANDARD IDs

Analyst: AGZ

Date: 5-17-11

HBN #: 456275 / 456278

Batch #: 9556 / 9557

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	101

Reviewed By: Bmc 5/16/11 5/17/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0	0.0021	0	
LCS	0.5042	0.5068	0.5042	101
2110504261 4	0	0.0065	0	
ms	0.4785	0.5465	0.472	94
msd	0.4797	0.5486	0.4732	95
2110504261 5	0.3750	0.0028	0.3722	
2110513060 2	0.0832	0.0024	0.0808	

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/13/2011

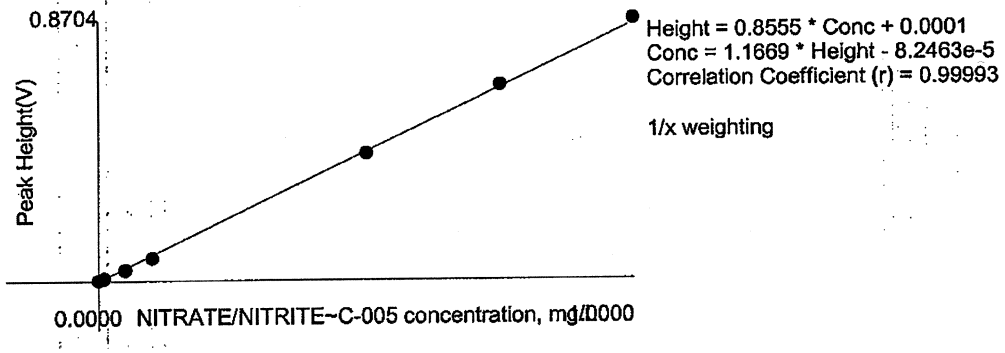
Original Run Filename: OM_05-13-2011_11-55-06.OMN created 05/13/2011 11:55:06
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_11-55-06.OMN last modified 05/13/2011 12:11:06
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.5076	05/13/2011@11:55:48		102
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0054	05/13/2011@11:57:04		
Known Conc:		0.0000			
946911 blk	1	-0.0030	05/13/2011@11:58:19		
946912 LCS	1	0.5042	05/13/2011@11:59:35		101
LCS N02	1	0.4978	05/13/2011@12:00:50		100
21105042614	1	-0.0059	05/13/2011@12:02:05		
946913 MS	1	0.4785	05/13/2011@12:03:20		96
946914 MSD	1	0.4797	05/13/2011@12:04:35		96
21105042615	1	0.3750	05/13/2011@12:05:49		
21105130602	1	0.0832	05/13/2011@12:07:04		
1800	1	0.5072	05/13/2011@12:08:19		101
Known Conc:		0.5000			
1900	1	-0.0019	05/13/2011@12:09:34		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21105042G 517

Author: AEL

Date : 05/13/2011

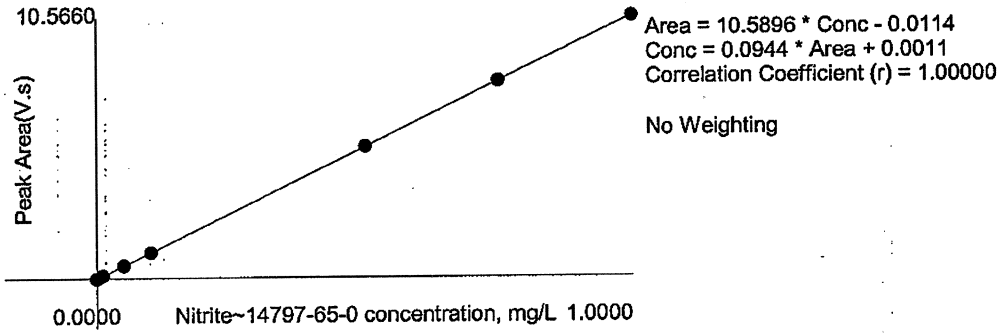
Original Run Filename: OM_05-13-2011_12-14-37.OMN created 05/13/2011 12:14:37
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_12-14-37.OMN last modified 05/13/2011 12:28:54
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5041	05/13/2011@12:15:19		101
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0008	05/13/2011@12:16:34		
Known Conc:		0.0000			
946917 BLK	1	0.0021	05/13/2011@12:17:49		
946918 2LL	1	0.5068	05/13/2011@12:19:05		101
21105042614	1	0.0065	05/13/2011@12:20:20		
946919 MS	1	0.5465	05/13/2011@12:21:35		108
946920 MSD	1	0.5486	05/13/2011@12:22:50		108
21105042615	1	0.0028	05/13/2011@12:24:05		
21105130602	1	0.0024	05/13/2011@12:25:19		
1800	1	0.5075	05/13/2011@12:26:33		102
Known Conc:		0.5000			
1900	1	-0.0007	05/13/2011@12:27:48		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



2110504426 518

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-14-11

HBN #: 456324 / 456325 / 456326

Batch #: 9559 / 9560 / 9561

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	99
LCS NO3 X 100 / LCS NO2	

Reviewed By: Bmc 5/16/11 Bmc 5/16/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0004	0.0001	0.0004	
LCS	0.5138	0.4877	0.5138	103
21105042616	1.5901	0.0024	1.5877	
21105042617 ms	4.0985	0.4841	4.0961	100
21105042618 msd	4.0864	0.4793	4.084	100

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/14/2011

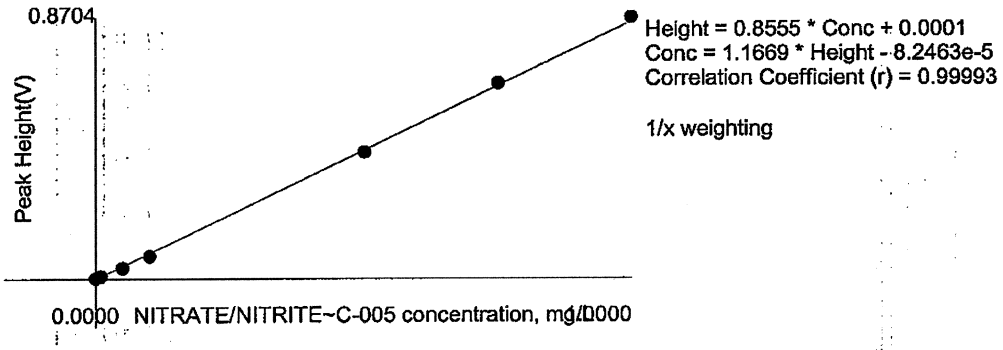
Original Run Filename: OM_05-14-2011_10-19-47.OMN created 05/14/2011 10:19:47
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-14-2011_10-19-47.OMN last modified 05/14/2011 10:38:15
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF
1800	1	0.5149	05/14/2011@10:20:28	
Known Conc:		0.5000		
Calibration:		Table/Fig. 1		
1900	1	0.0016	05/14/2011@10:21:44	
Known Conc:		0.0000		
947217 Blk	1	0.0004	05/14/2011@10:22:59	
947218 Lcs	1	0.5138	05/14/2011@10:24:14	
21105042616	1	1.6262	05/14/2011@10:25:29	
21105042617 ms	1	2.1352	05/14/2011@10:26:44	
21105042618 msd	1	2.1392	05/14/2011@10:28:00	
1800	1	0.5151	05/14/2011@10:29:14	
Known Conc:		0.5000		
1900	1	0.0018	05/14/2011@10:30:30	
Known Conc:		0.0000		
21105042616	1	1.5901	05/14/2011@10:31:45	5.00
21105042617 ms	1	4.0985	05/14/2011@10:32:59	5.00
21105042618 msd	1	4.0864	05/14/2011@10:34:14	5.00
1800	1	0.5163	05/14/2011@10:35:28	
Known Conc:		0.5000		
1900	1	-0.0001	05/14/2011@10:36:43	
Known Conc:		0.0000		

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21105042G 521

Author: AEL

Date : 05/14/2011

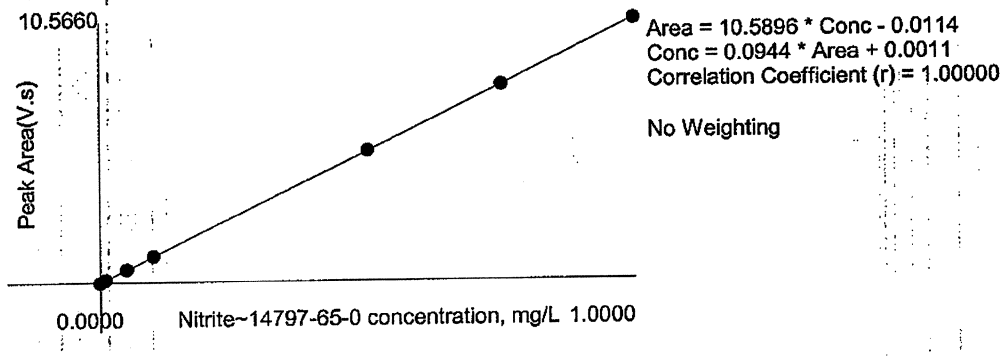
Original Run Filename: OM_05-14-2011_10-41-15.OMN created 05/14/2011 10:41:15
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-14-2011_10-41-15.OMN last modified 05/14/2011 10:53:03
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.4863	05/14/2011@10:41:56		97
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0009	05/14/2011@10:43:12		
Known Conc:		0.0000			
947219 BLK	1	0.0001	05/14/2011@10:44:27		
947220 LCS	1	0.4837	05/14/2011@10:45:42		97
21105042616	1	0.0024	05/14/2011@10:46:57		
21105042617 MS	1	0.4841	05/14/2011@10:48:13		96
21105042618 MSD	1	0.4793	05/14/2011@10:49:28		96
1800	1	0.4706	05/14/2011@10:50:43		94
Known Conc:		0.5000			
1900	1	-0.0006	05/14/2011@10:51:58		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105042G 522

LACHAT STANDARD IDs

Analyst: AE2

Date: 5-18-11

HBN #: 456596 / 456597 / 456598

Batch #: 9575 / 9576 / 9577

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	102

Reviewed By: [signature] 5/19/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0082	0.0021	~~0.0061~~	5/19/1
LCS	0.4963	0.4751	0.4963	99
2110504260	0	0.0064	0	
ms	0.5096	0.4846	0.5032	101
msd	0.5096	0.4837	0.5032	101
2110504262	0	0.0055	0	
2110518070	0	0.0071	0	
2110518070	0.0032	0.0099	0	
2110517341	0	0.0055	0	
2110517341	0	0.0056	0	
2110517341	0	0.0042	0	
2110517341	0	0.0061	0	
2110517341	0	0.0055	0	
2110517341	0	0.0054	0	
ms	0.4670	0.4958	0.4616	92
msd	0.4676	0.4767	0.4622	92
2110517341	0	0.0113	0	

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/18/2011

Original Run Filename: OM_05-18-2011_16-12-58.OMN created 05/18/2011 16:12:58
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-18-2011_16-12-58.OMN last modified 05/18/2011 17:00:24
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4974	05/18/2011@16:13:39		99
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0005	05/18/2011@16:14:55		
Known Conc:		0.0000			
948435 BLK	1	0.0082	05/18/2011@16:16:11		
948436 LCS	1	0.4963	05/18/2011@16:17:26		99
LCS N02	1	0.4864	05/18/2011@16:18:41		97
21105042620	1	-0.0050	05/18/2011@16:19:57		
948437 MS	1	0.4387	05/18/2011@16:21:14		RR
948438 MSD	1	0.4372	05/18/2011@16:22:29		
21105042621	1	-0.0046	05/18/2011@16:23:44		
21105180701	1	-0.0047	05/18/2011@16:24:58		
21105180702	1	0.0032	05/18/2011@16:26:13		
21105173410	1	-0.0043	05/18/2011@16:27:27		
1800	1	0.4975	05/18/2011@16:28:40		100
Known Conc:		0.5000			
1900	1	-0.0010	05/18/2011@16:29:53		
Known Conc:		0.0000			
21105173411	1	-0.0058	05/18/2011@16:31:07		
21105173412	1	-0.0035	05/18/2011@16:32:23		
21105173413	1	-0.0066	05/18/2011@16:33:38		
21105173414	1	-0.0062	05/18/2011@16:34:53		
21105173415	1	-0.0040	05/18/2011@16:36:08		
948439 MS	1	0.4670	05/18/2011@16:37:23		93
948440 MSD	1	0.4676	05/18/2011@16:38:38		94
21105173416	1	-0.0042	05/18/2011@16:39:53		
948437 MS	1	0.5096	05/18/2011@16:41:08		102
948438 MSD	1	0.5096	05/18/2011@16:42:22		102
1800	1	0.4890	05/18/2011@16:43:37		98
Known Conc:		0.5000			
1900	1	-0.0003	05/18/2011@16:44:52		
Known Conc:		0.0000			
21105172001	1	15.4467	05/18/2011@16:46:07	50.00	
948447 MS	1	39.0506	05/18/2011@16:47:22	50.00	94
948448 MSD	1	39.0972	05/18/2011@16:48:36	50.00	95
21105161201	1	0.1418	05/18/2011@16:49:50		
21105161202	1	0.1080	05/18/2011@16:51:05		
21105181102	1	53.7420	05/18/2011@16:52:19	200.00	
21105182601	1	-0.0164	05/18/2011@16:53:35		
21105182602	1	-0.0133	05/18/2011@16:54:51		
21105182603	1	-0.0295	05/18/2011@16:56:06		
21105172201	1	1.3238	05/18/2011@16:57:21	50.00	RR
1800	1	0.4480	05/18/2011@16:58:37		RR 90%
Known Conc:		0.5000			

Samples were pH adjusted & filtered due to N-Z.

21105042G 525

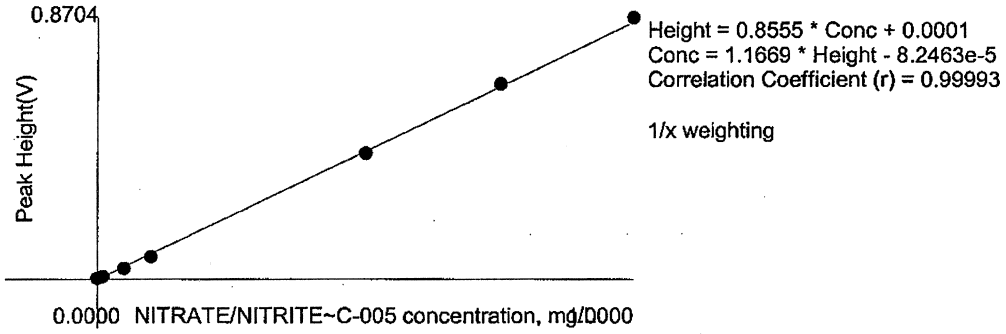
Author: AEL

Date : 05/18/2011

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



211050426 526

Author: AEL

Date : 05/18/2011

Original Run Filename: OM_05-18-2011_15-28-27.OMN created 05/18/2011 15:28:27
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-18-2011_15-28-27.OMN last modified 05/18/2011 15:57:43
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.4758	05/18/2011@15:29:08		95
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0014	05/18/2011@15:30:23		
Known Conc:		0.0000			
948441 BLK	1	0.0021	05/18/2011@15:31:38		
948442 LCS	1	0.4751	05/18/2011@15:32:54		95
21105042620	1	0.0064	05/18/2011@15:34:09		
948443 MS	1	0.4846	05/18/2011@15:35:24		96
948444 MSD	1	0.4837	05/18/2011@15:36:39		95
21105042621	1	0.0055	05/18/2011@15:37:53		
21105180701	1	0.0071	05/18/2011@15:39:08		
21105180702	1	0.0099	05/18/2011@15:40:22		
21105173410	1	0.0055	05/18/2011@15:41:37		
1800	1	0.4782	05/18/2011@15:42:51		96
Known Conc:		0.5000			
1900	1	-1.6642e-6	05/18/2011@15:44:05		
Known Conc:		0.0000			
21105173411	1	0.0056	05/18/2011@15:45:20		
21105173412	1	0.0042	05/18/2011@15:46:36		
21105173413	1	0.0061	05/18/2011@15:47:51		
21105173414	1	0.0055	05/18/2011@15:49:06		
21105173415	1	0.0054	05/18/2011@15:50:21		
948439 MS	1	0.4958	05/18/2011@15:51:36		98
948440 MSD	1	0.4767	05/18/2011@15:52:52		94
21105173416	1	0.0113	05/18/2011@15:54:07		
1800	1	0.4684	05/18/2011@15:55:21		94
Known Conc:		0.5000			
1900	1	0.0005	05/18/2011@15:56:36		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

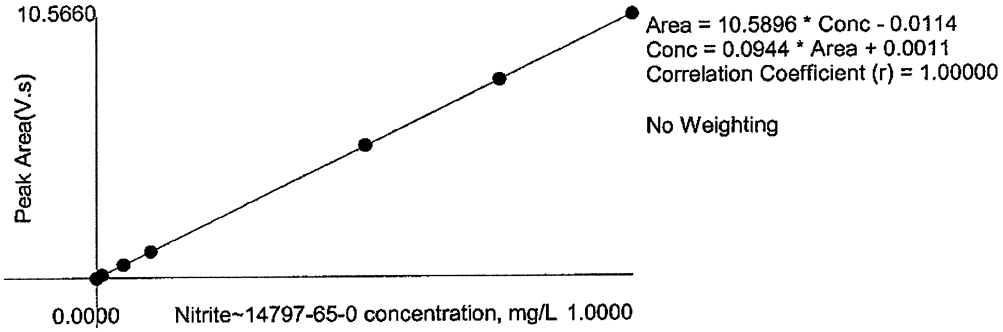
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

211050426 527

Author: AEL

Date : 05/18/2011

Figure 1: Nitrite~14797-65-0



211050426 528

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-19-11

HBN #: 456717 / 456715

Batch #: 9582 / 9581

CHLORIDE	SM4500 Cl-E /9251
~~CCV Lot #~~	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE	335.4/9012A
~~CCV Lot #~~	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS	420.4/9066
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS	365.1
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE	353.2
NO3 CCV Lot #	210000
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	103
LCS NO3 X 100 / LCS NO2	

Reviewed By: Bmc 5/24/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0	0	0	
LCS	0.4950	0.4699	99	
21105190401	0.4206	0.0131	0.4075	
ms	0.9430	0.4810	0.9299	104
msd	0.9315	0.4762	0.9184	102
21105042622	0	0	0	
21105190801	0.1672	0.0037	0.1635	
21105190802	0.0036	0.0152	0	
21105190803	0.0262	0.0081	0.0181	
21105190804	0.0120	0.0071	0.0049	
21105190805	0.0107	0.0050	0.0057	
21105190806	0.0040	0.0043	0	

N+N minus NO2 equals NO3

Author: AEL

Date : 05/19/2011

Original Run Filename: OM_05-19-2011_16-13-34.OMN created 05/19/2011 16:13:34
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-19-2011_16-13-34.OMN last modified 05/19/2011 16:38:19
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
~~1800~~	~~1~~	~~0.4945~~	~~05/19/2011@16:14:15~~		~~99~~
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0004	05/19/2011@16:15:31		
Known Conc:		0.0000			
948972 BLK	1	-0.0003	05/19/2011@16:16:46		
948973 LCS	1	0.4950	05/19/2011@16:18:01		99
LCS N02	1	0.4796	05/19/2011@16:19:16		96
21105190401	1	0.4206	05/19/2011@16:20:31		
948974 MS	1	0.9430	05/19/2011@16:21:47		104
948975 MSD	1	0.9315	05/19/2011@16:23:01		102
21105042622	1	-0.0007	05/19/2011@16:24:16		
21105190801	1	0.1672	05/19/2011@16:25:31		
21105190802	1	0.0036	05/19/2011@16:26:46		
21105190803	1	0.0262	05/19/2011@16:28:01		
1800	1	0.4811	05/19/2011@16:29:15		96
Known Conc:		0.5000			
1900	1	-0.0002	05/19/2011@16:30:29		
Known Conc:		0.0000			
21105190804	1	0.0120	05/19/2011@16:31:43		
21105190805	1	0.0107	05/19/2011@16:33:00		
21105190806	1	0.0040	05/19/2011@16:34:15		
1800	1	0.4861	05/19/2011@16:35:31		97
Known Conc:		0.5000			
1900	1	-0.0006	05/19/2011@16:36:47		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

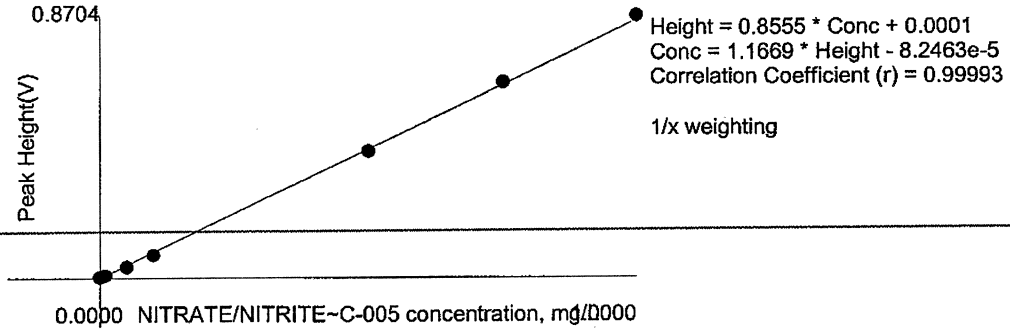
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

21105042G 531

Author: AEL

Date : 05/19/2011

Figure 1: NITRATE/NITRITE~C-005



21105042G 532

Author: AEL

Date : 05/19/2011

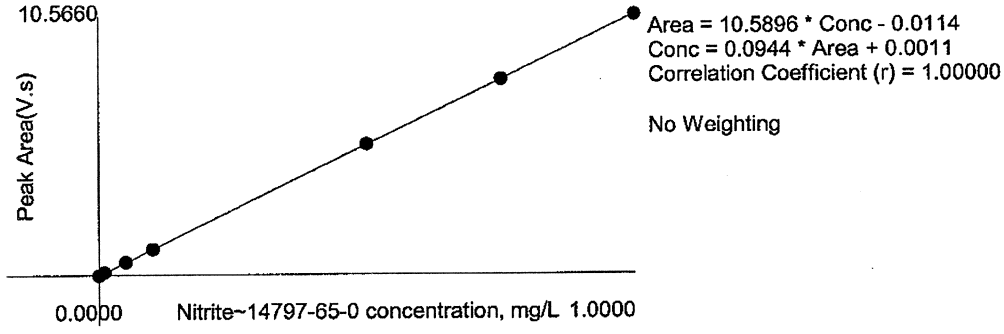
Original Run Filename: OM_05-19-2011_15-19-51.OMN created 05/19/2011 15:19:51
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-19-2011_15-19-51.OMN last modified 05/19/2011 15:42:53
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
~~1800~~	~~1~~	~~0.4648~~	~~05/19/2011@15:20:33~~		~~97~~
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0025	05/19/2011@15:21:49		
Known Conc:		0.0000			
948964 BLK	1	-0.0011	05/19/2011@15:23:04		
948965 LCS	1	0.4699	05/19/2011@15:24:19		94
21105190401	1	0.0131	05/19/2011@15:25:34		
948966 MS1	1	0.4810	05/19/2011@15:26:49		94
948967 MSD	1	0.4762	05/19/2011@15:28:04		93
21105042622	1	-0.0052	05/19/2011@15:29:19		
21105190801	1	0.0037	05/19/2011@15:30:34		
21105190802	1	0.0152	05/19/2011@15:31:48		
21105190803	1	0.0081	05/19/2011@15:33:03		
1800	1	0.4589	05/19/2011@15:34:17		92
Known Conc:		0.5000			
1900	1	-0.0036	05/19/2011@15:35:31		
Known Conc:		0.0000			
21105190804	1	0.0071	05/19/2011@15:36:45		
21105190805	1	0.0050	05/19/2011@15:38:01		
21105190806	1	0.0043	05/19/2011@15:39:17		
1800	1	0.4660	05/19/2011@15:40:32		93
Known Conc:		0.5000			
1900	1	-0.0008	05/19/2011@15:41:47		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105042G 533

ANALYST: AEL
DATE: 5-10-11
HBN# 455977/3209

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-1-9
Eluent Expiration Date 9-8-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: Bmc 5/11/11

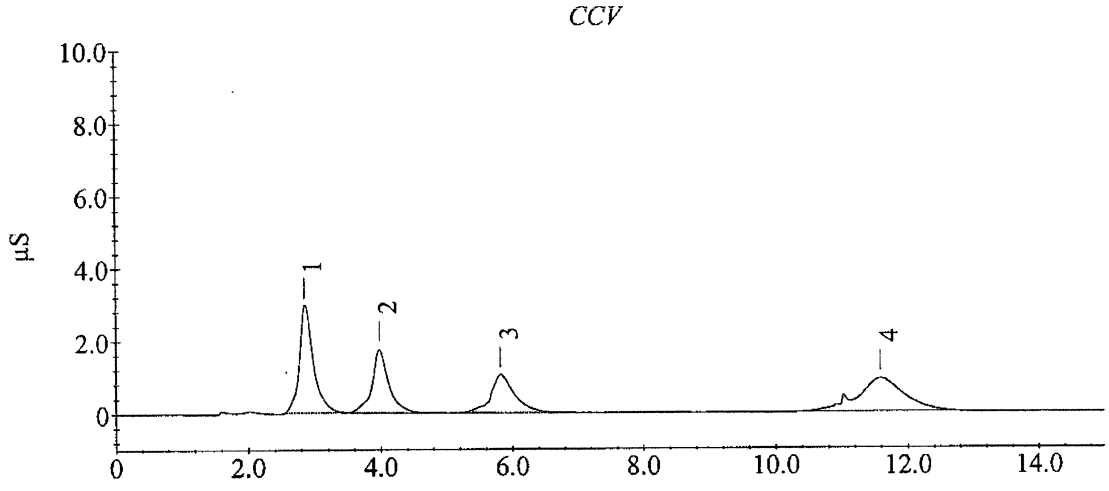
Sample Analysis Report

Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\2011\052011\0509_001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 08:20:54
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.28	434123	29269
2	CHLORIDE,16887-00-6	3.98	2.48 99	309022	17379
3	BROMIDE,24959-67-9	5.82	5.12	268698	10423
4	SULFATE,14808-79-8	11.58	5.01 100	444737	9082



21105042G 535

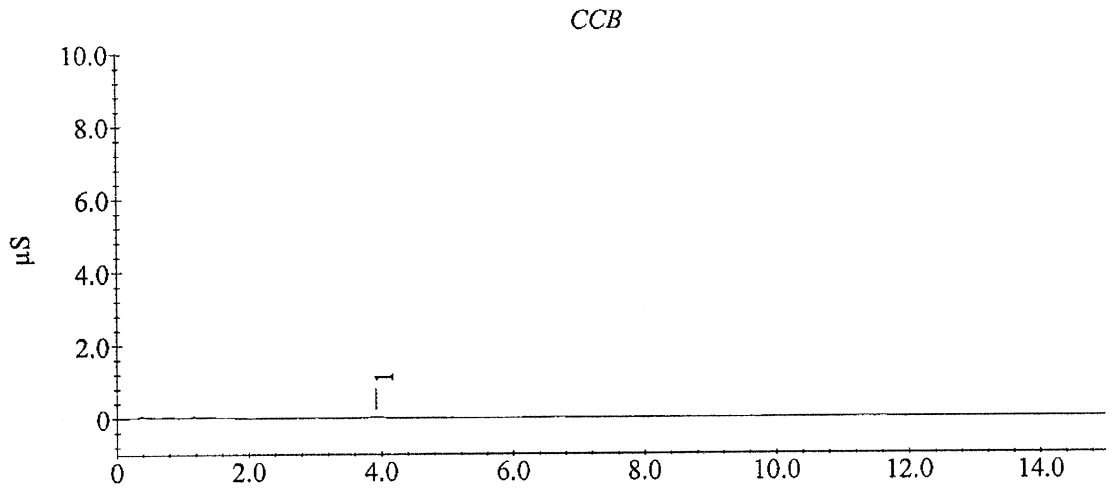
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_003.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 08:56:10
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 3

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.92	0.06	2906	255



2110504426 536

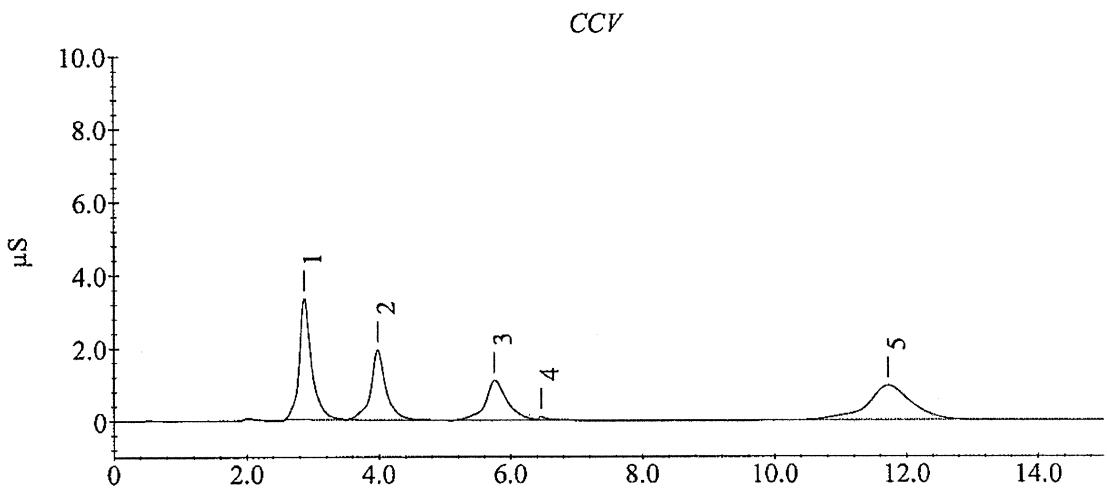
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0509_014.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 12:09:44
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.29	437373	33091
2	CHLORIDE,16887-00-6	3.98	2.51	312899	19196
3	BROMIDE,24959-67-9	5.75	4.83	253073	10901
4	NITRATE,14797-55-8	6.47	0.09	9615	1095
5	SULFATE,14808-79-8	11.72	4.90	434907	9421



211050426 537

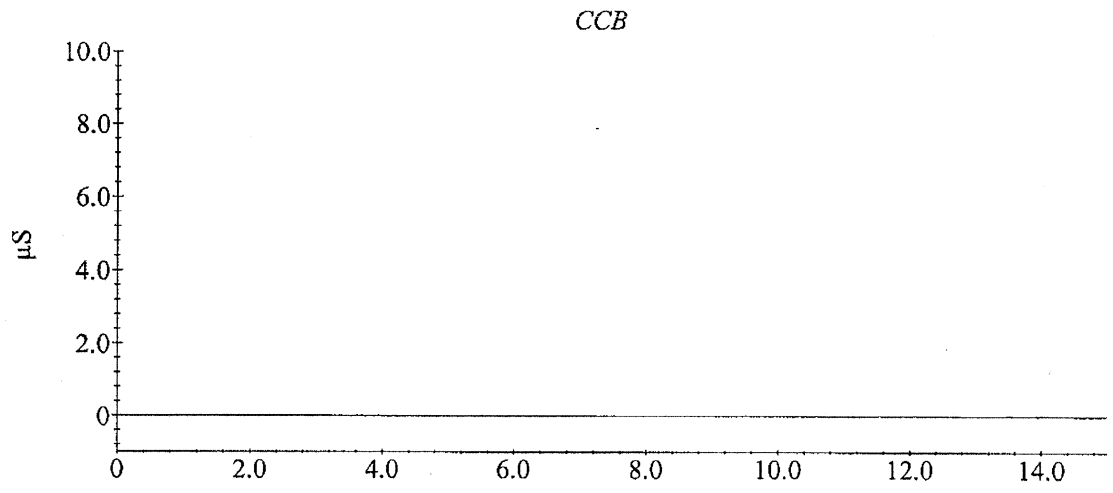
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_015.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 12:27:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 15

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21105042G 538

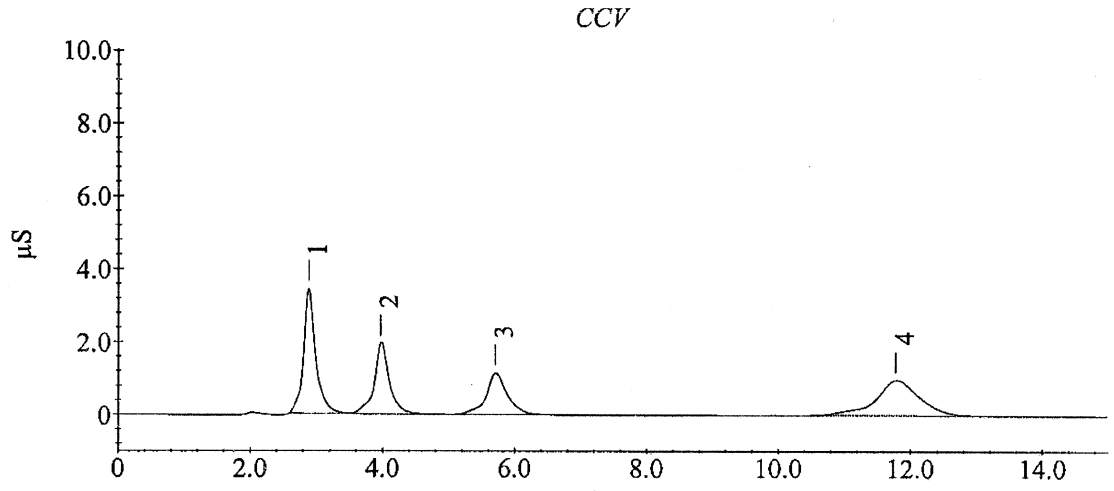
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0509_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 15:40:52
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.88	2.29	436923	34086
2	CHLORIDE,16887-00-6	3.97	2.52 ppm	313934	19319
3	BROMIDE,24959-67-9	5.70	4.86	254567	11371
4	SULFATE,14808-79-8	11.78	5.03 ppm	446015	9679



21105042G 539

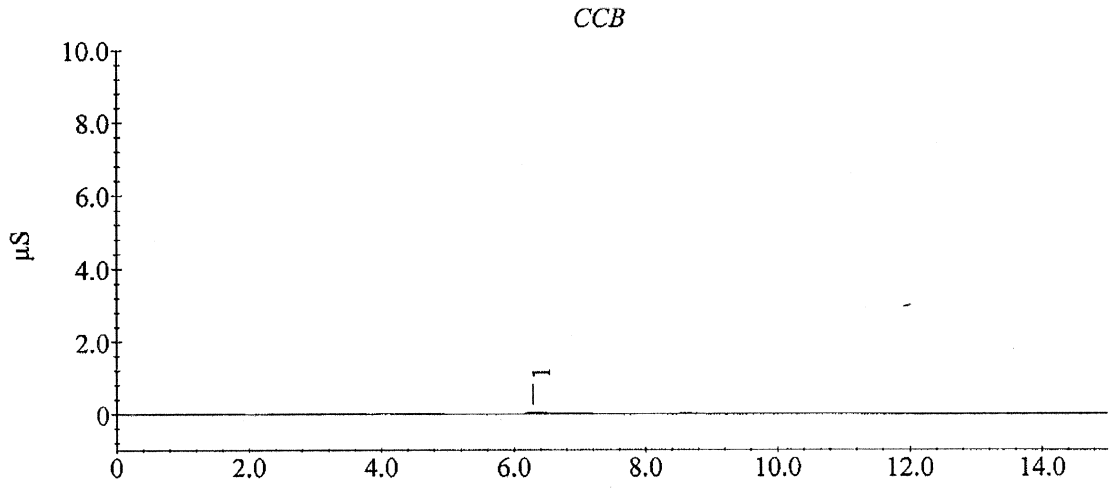
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_027.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 15:58:27
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 27

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	BROMIDE,24959-67-9	6.28	0.21	8020	463



211050426 540

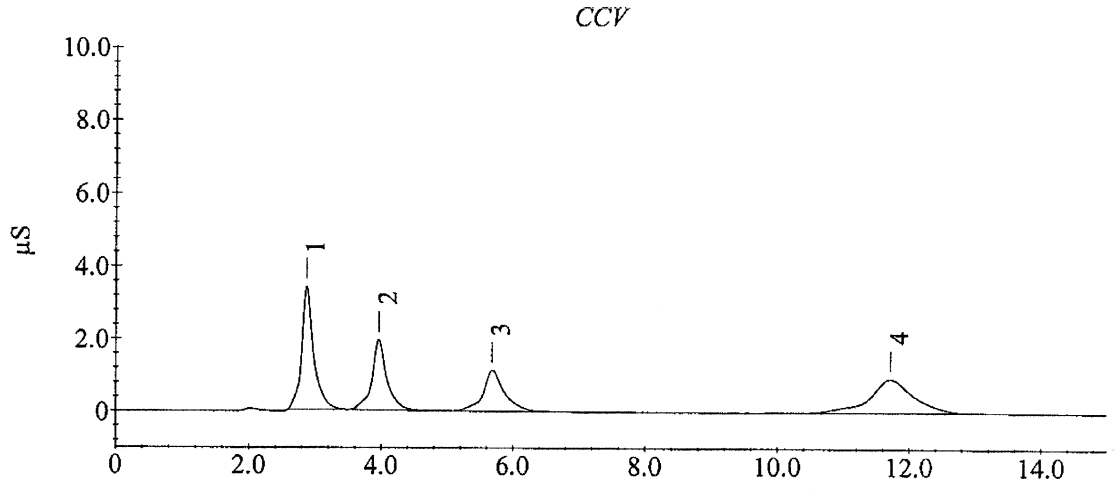
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0509_036.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 18:42:28
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 36

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.29 92	437553	33985
2	CHLORIDE,16887-00-6	3.97	2.50 100	311943	19511
3	BROMIDE,24959-67-9	5.68	4.83	253254	11259
4	SULFATE,14808-79-8	11.72	4.91 98	435554	9328



211050426 541

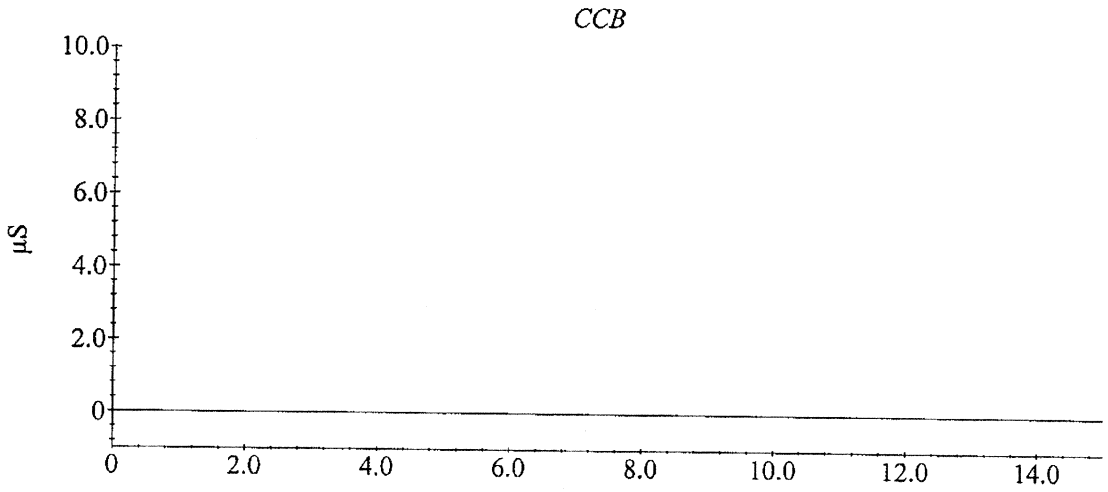
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_037.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 19:00:02
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 37

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211050426 542

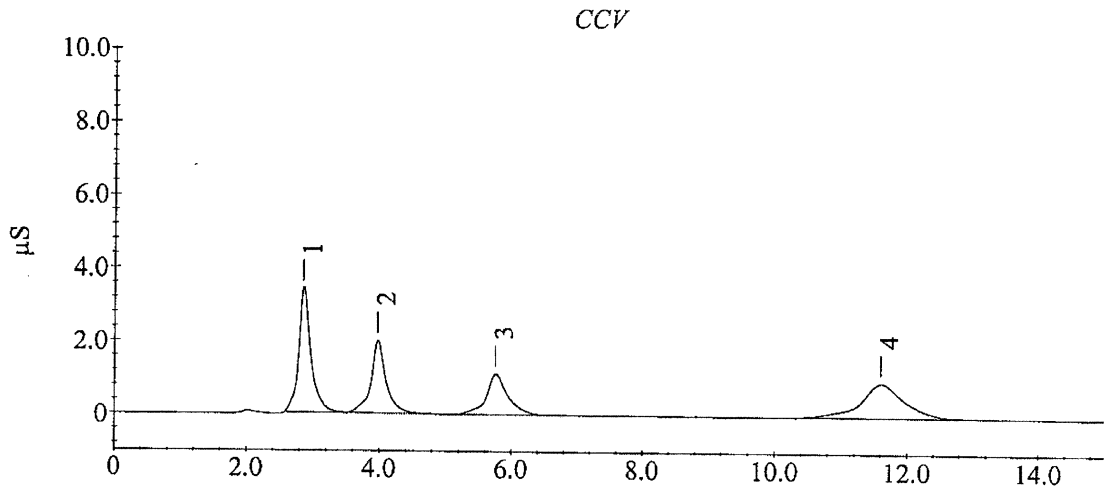
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0509_048.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 22:13:40
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 48

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.28 91	435466	33916
2	CHLORIDE,16887-00-6	3.97	2.55 102	318327	19827
3	BROMIDE,24959-67-9	5.75	4.79	250939	11065
4	SULFATE,14808-79-8	11.60	4.86 97	431386	9381



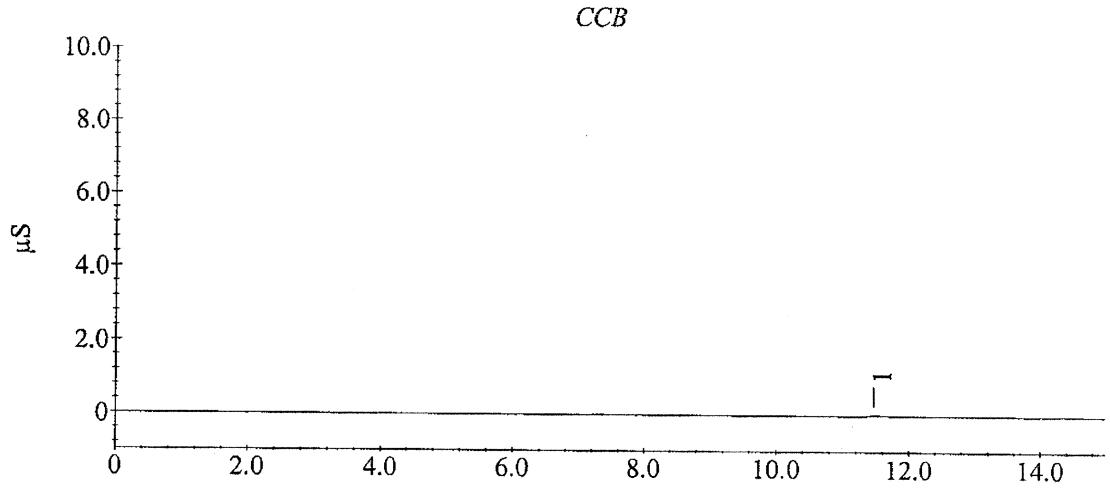
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_049.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 22:31:21
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 49

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	Unknown 1	11.47	0.00	1059	157



2110504426 544

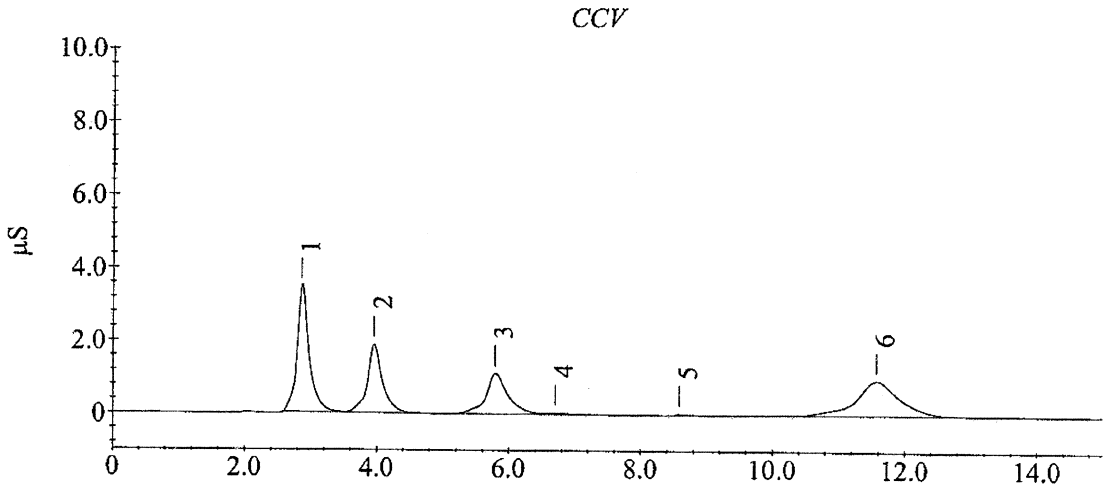
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0509_054.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/10/2011 23:59:56
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 54

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.33 97	444292	34443
2	CHLORIDE,16887-00-6	3.95	2.42 97	301466	18749
3	BROMIDE,24959-67-9	5.78	5.00	262489	11096
4	NITRATE,14797-55-8	6.70	0.08	6365	308
5	Unknown 1	8.58	0.00	2156	324
6	SULFATE,14808-79-8	11.57	4.93 97	437410	9514



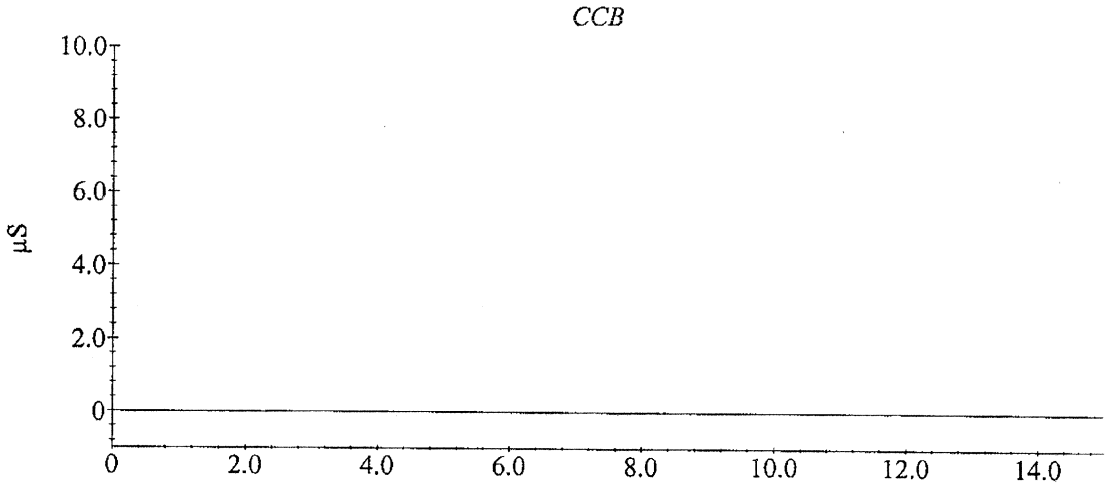
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0509_055.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/11/2011 00:17:40
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 55

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21105042G 546

ANALYST: AEL
DATE: 5-12-11
HBN# 456165 / 3213

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-9-3
Eluent Expiration Date 9-30-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: bmc 5/13/11

Revision 0: 1/3/07

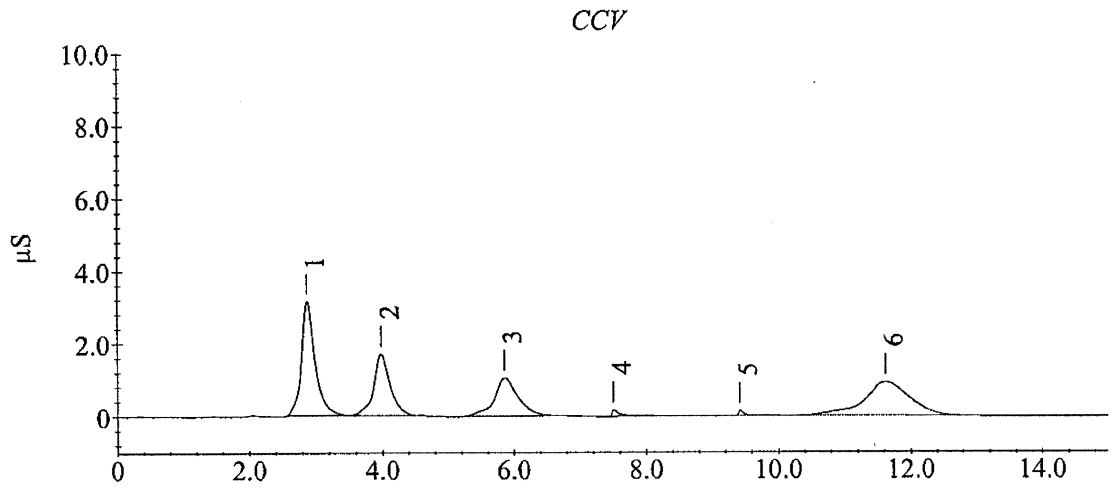
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 10:34:32
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.33	444280	31068
2	CHLORIDE,16887-00-6	3.98	2.3594	292491	16785
3	BROMIDE,24959-67-9	5.85	5.03101	264094	10375
4	Unknown 1	7.50	0.00	13390	1699
5	Unknown 2	9.42	0.00	7637	1303
6	SULFATE,14808-79-8	11.62	4.9498	438300	9122



211050426 548

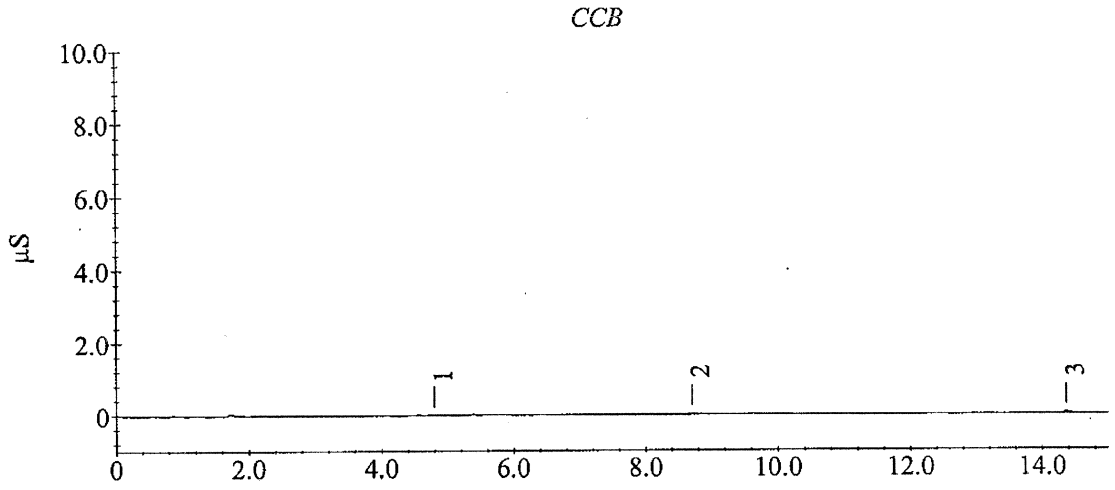
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_003.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 11:09:47
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 3

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	NITRITE,14797-65-0	4.80	0.06	890	89
2	Unknown 1	8.70	0.00	2293	309
3	Unknown 2	14.37	0.00	3082	500



21105042G 549

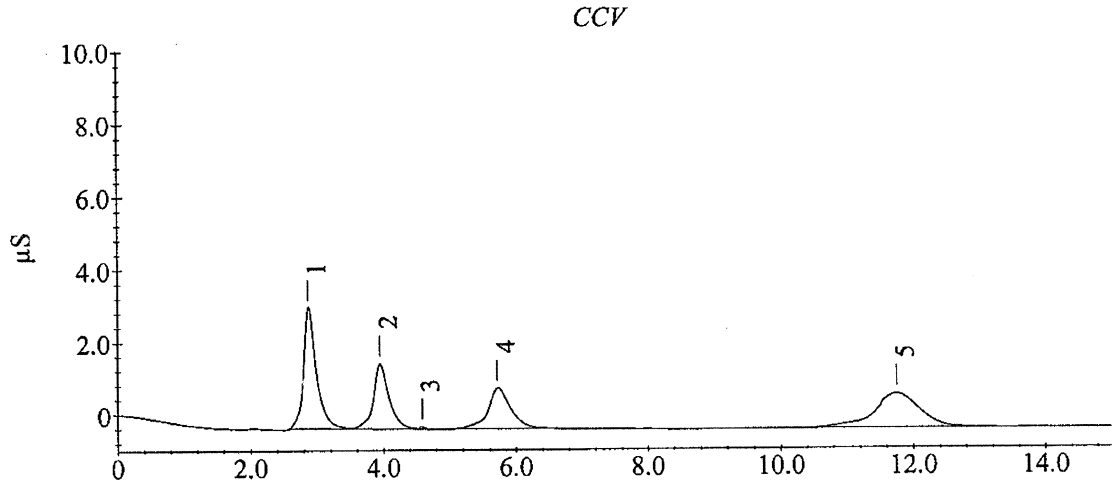
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 17:54:31
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.36	450030	33288
2	CHLORIDE,16887-00-6	3.95	2.39 96	297425	17922
3	NITRITE,14797-65-0	4.58	0.06	2706	598
4	BROMIDE,24959-67-9	5.72	5.14 103	269803	11095
5	SULFATE,14808-79-8	11.75	5.03 101	446764	9380



211050426 550

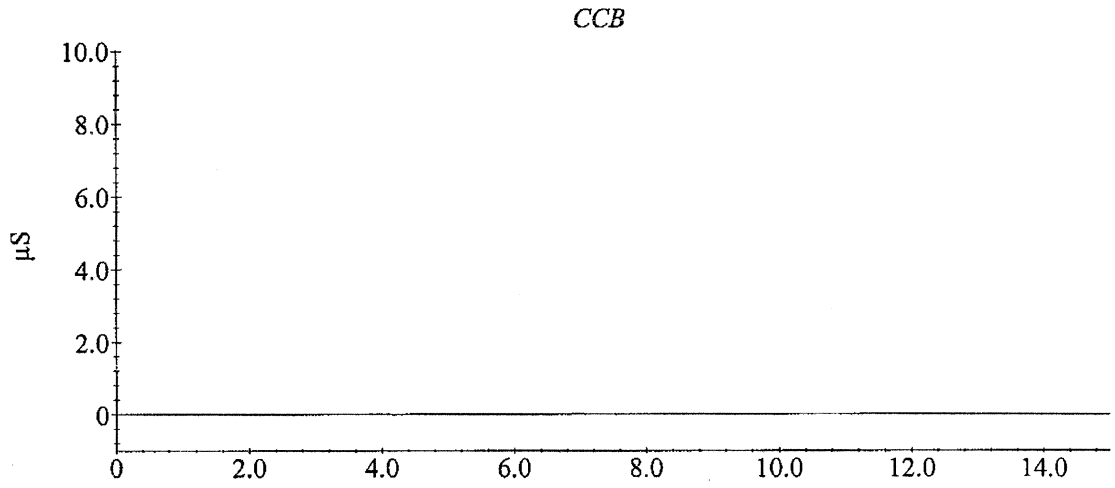
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_027.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 18:12:08
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 27

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211050426 551

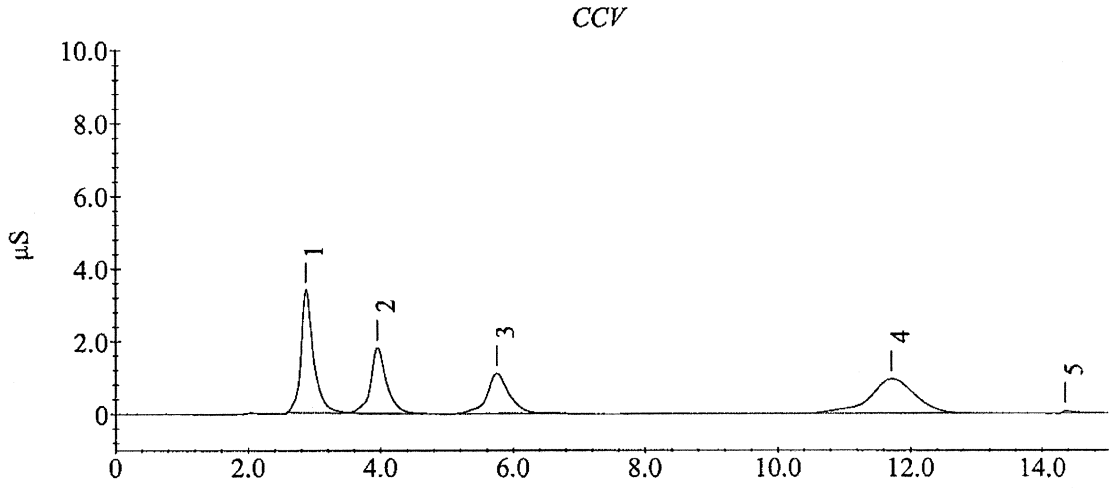
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_031.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 19:22:26
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 31

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.35	449582	33487
2	CHLORIDE,16887-00-6	3.95	2.4698	306569	17998
3	BROMIDE,24959-67-9	5.75	4.8797	255090	10957
4	SULFATE,14808-79-8	11.72	5.01 100	444944	9444
5	Unknown 1	14.35	0.00	8254	630



21105042G 552

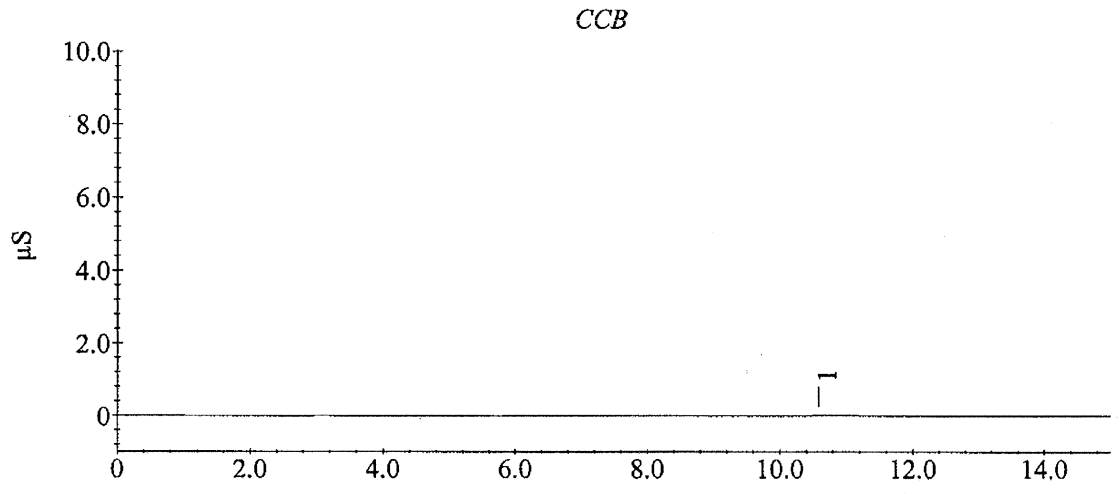
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_032.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 19:40:02
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 32

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	Unknown 1	10.58	0.00	2598	199



211050426 553

ANALYST: AER
DATE: 5-16-11
HBN# 456395/3214

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-10-4
Eluent Expiration Date 12-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: Bmc 5/18/11

Revision 0: 1/3/07

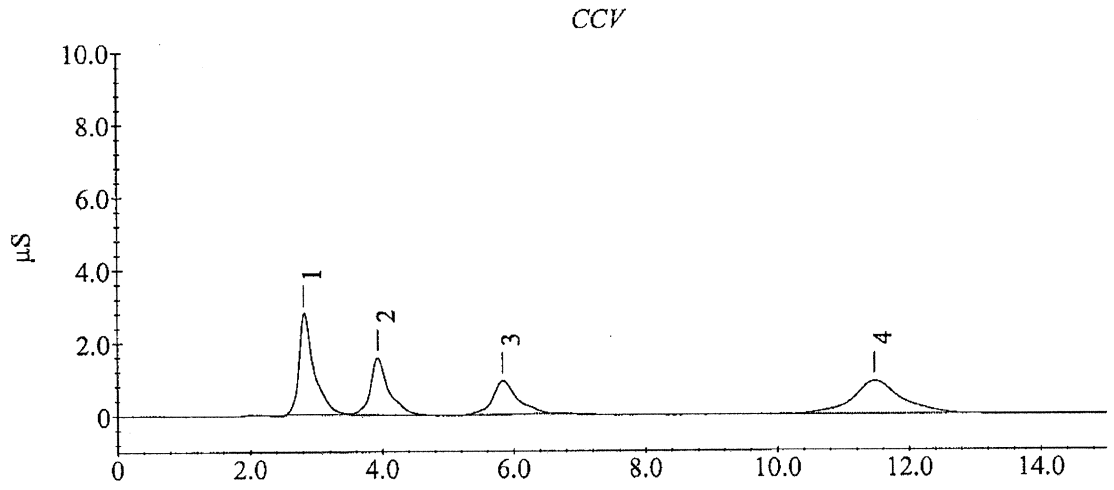
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0516_A001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/16/2011 17:31:43
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.82	2.3092	438601	27538
2	CHLORIDE,16887-00-6	3.93	2.4397	302466	15588
3	BROMIDE,24959-67-9	5.83	4.66	244313	9203
4	SULFATE,14808-79-8	11.47	5.14103	456523	8966



211050426 555

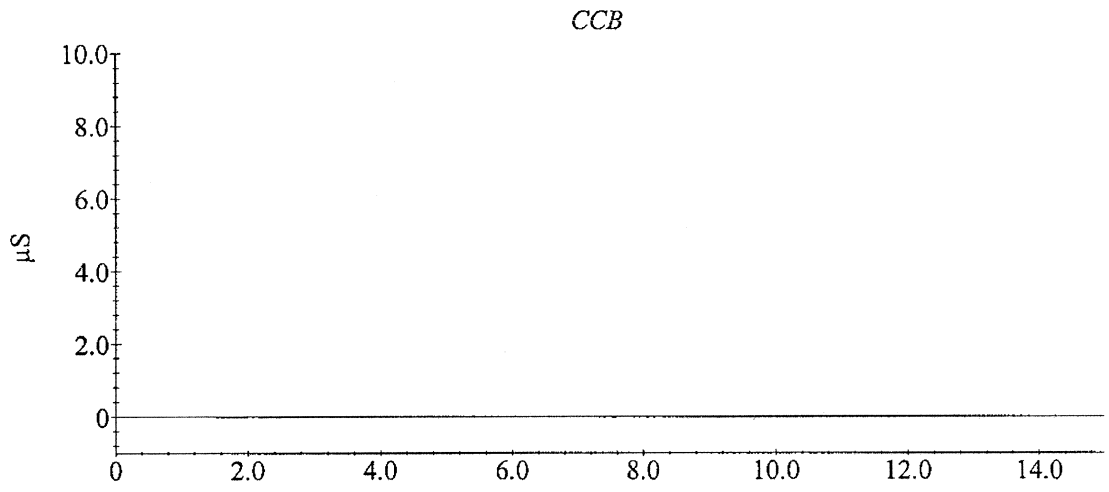
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0516_A002.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/16/2011 17:49:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 2

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21105042S 556

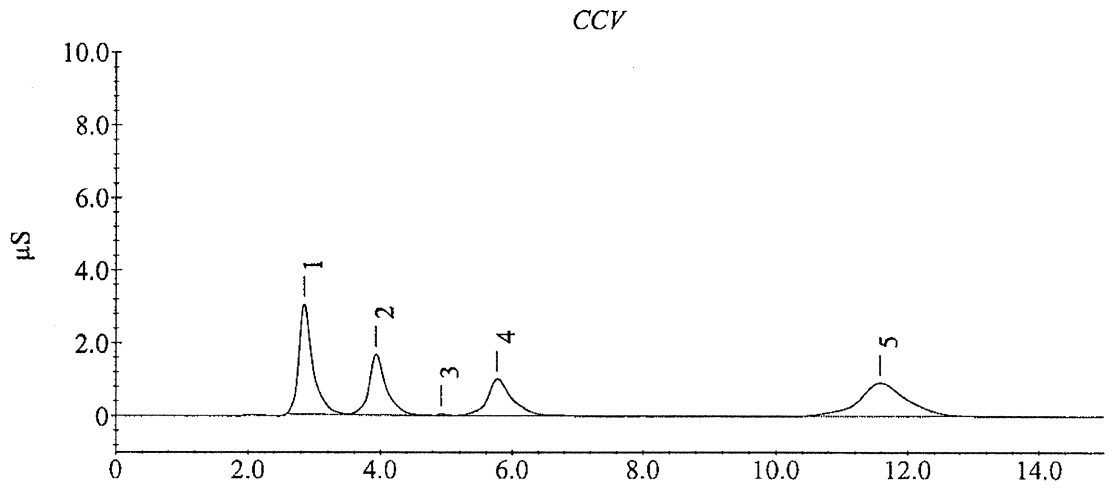
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0516_013.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/16/2011 21:02:55
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 13

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.32 93	442125	30139
2	CHLORIDE,16887-00-6	3.93	2.43 97	302735	16546
3	NITRITE,14797-65-0	4.92	0.06	2924	502
4	BROMIDE,24959-67-9	5.77	4.98	261303	9999
5	SULFATE,14808-79-8	11.58	5.12 102	454380	9063



211050426 557

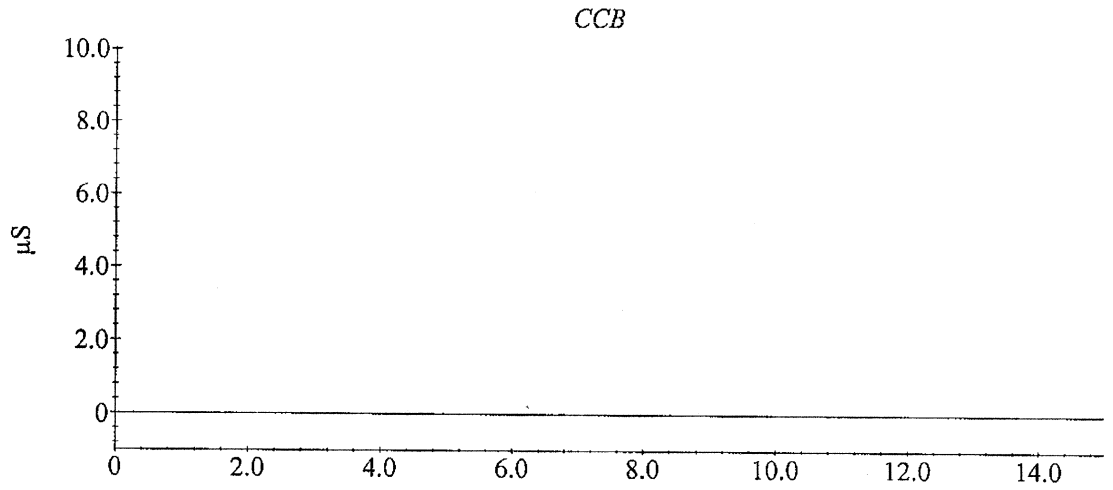
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0516_014.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/16/2011 21:20:32
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21110426 558

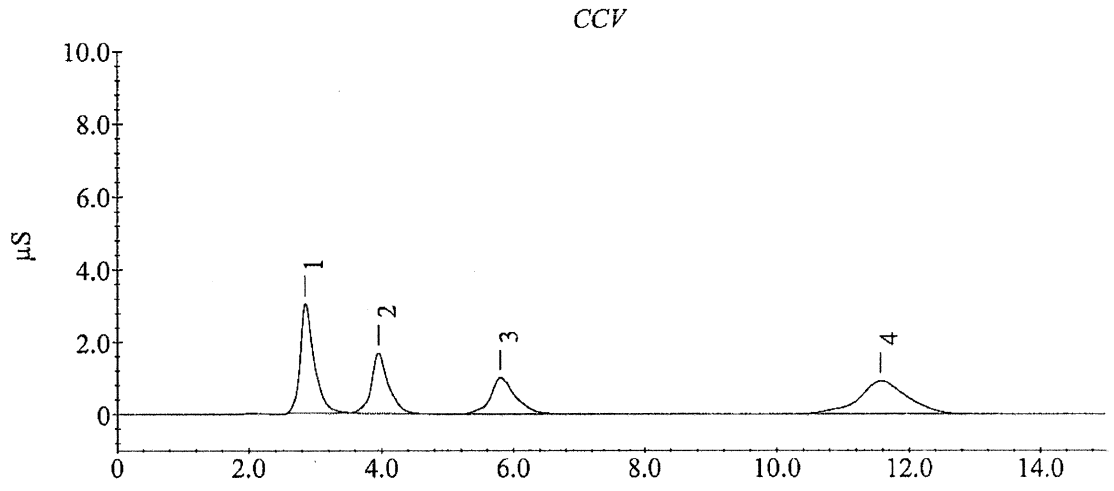
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0516_025.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/17/2011 00:34:35
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 25

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.33 97	444497	30102
2	CHLORIDE,16887-00-6	3.95	2.42 97	301765	16697
3	BROMIDE,24959-67-9	5.80	5.10	267732	10037
4	SULFATE,14808-79-8	11.57	5.20 104	462174	9125



211050426 559

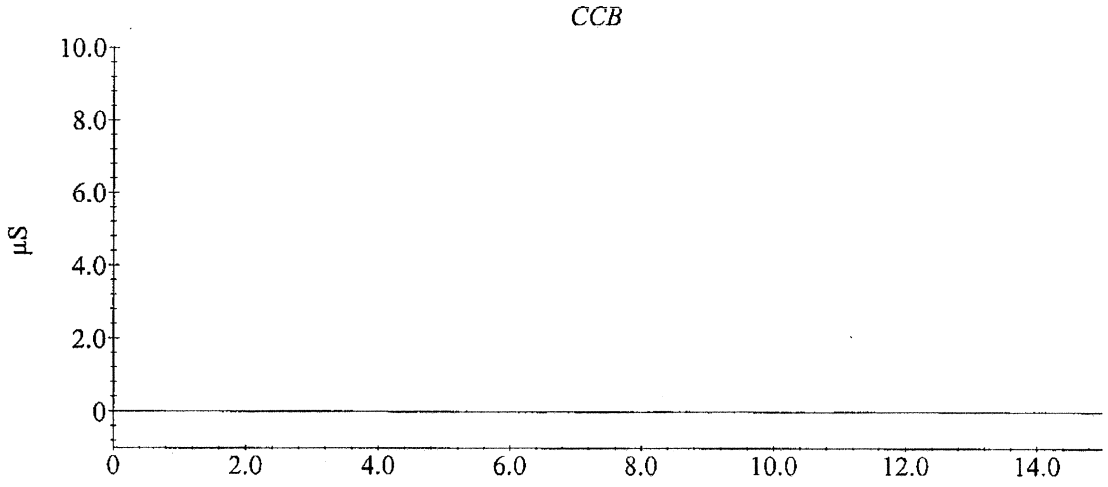
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0516_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/17/2011 00:52:13
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211050426 560

ANALYST: AGZ
DATE: 5-19-11
HBN# 456669 / 3218

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-12-3
Eluent Expiration Date 12-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: mc 3/20/11

Revision 0: 1/3/07

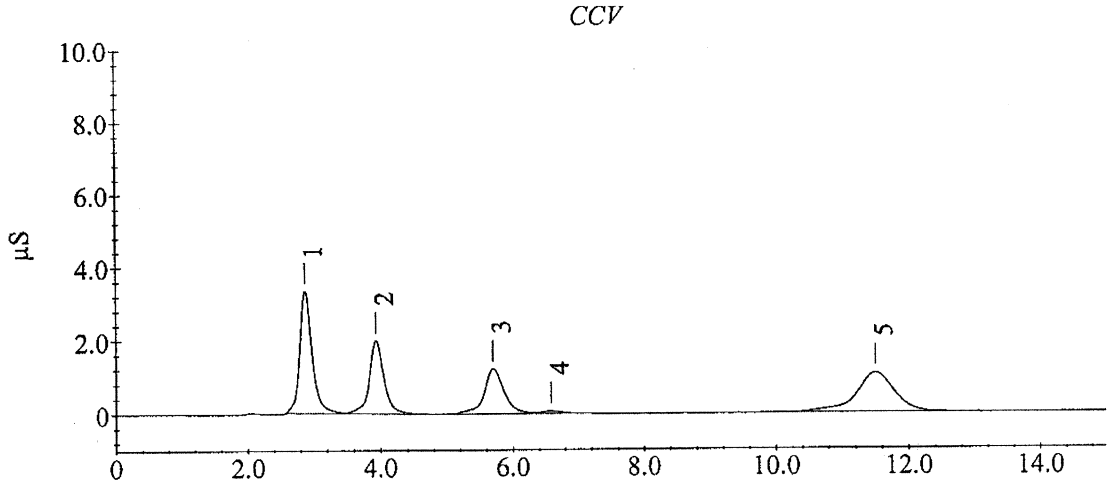
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 17:05:35
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.29 92	436604	33112
2	CHLORIDE,16887-00-6	3.93	2.48 99	309417	19767
3	BROMIDE,24959-67-9	5.70	4.96 99	260123	12185
4	NITRATE,14797-55-8	6.58	0.11	14427	631
5	SULFATE,14808-79-8	11.50	4.86 97	431025	10671



21105042G 562

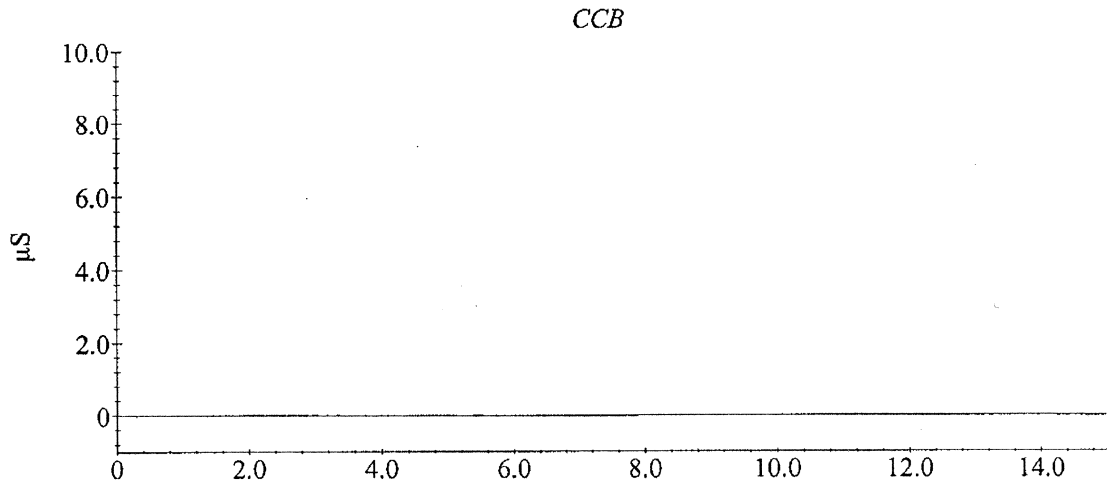
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_002.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 17:23:14
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 2

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21105042G 563

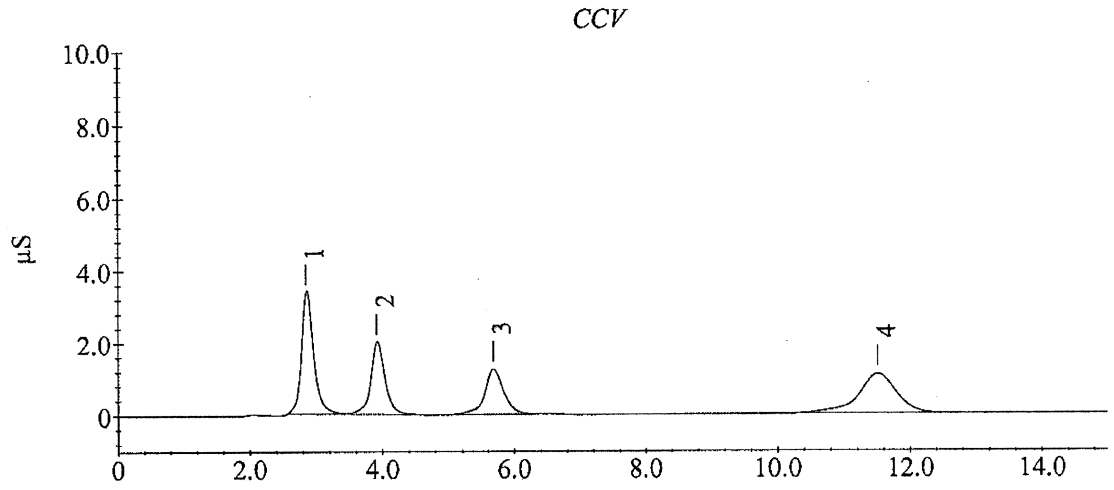
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_013.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 20:36:44
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 13

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.30 92	439451	33549
2	CHLORIDE,16887-00-6	3.92	2.45 98	305283	19895
3	BROMIDE,24959-67-9	5.68	4.82 96	252577	12470
4	SULFATE,14808-79-8	11.50	4.92 99	436228	10930



21105042G 564

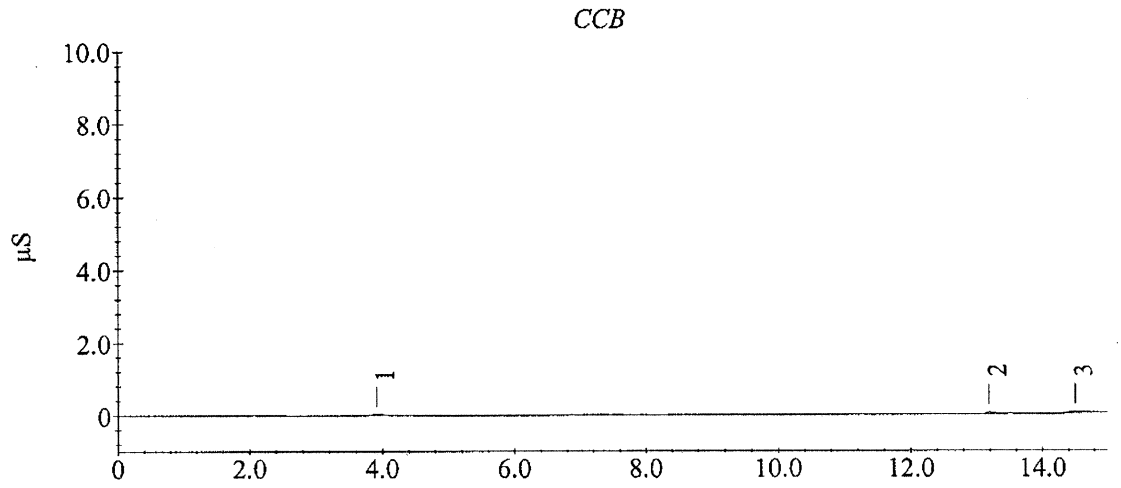
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_014.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 20:54:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.92	0.05	2060	172
2	Unknown 1	13.18	0.00	4213	494
3	Unknown 2	14.50	0.00	8711	381



21105042G 565

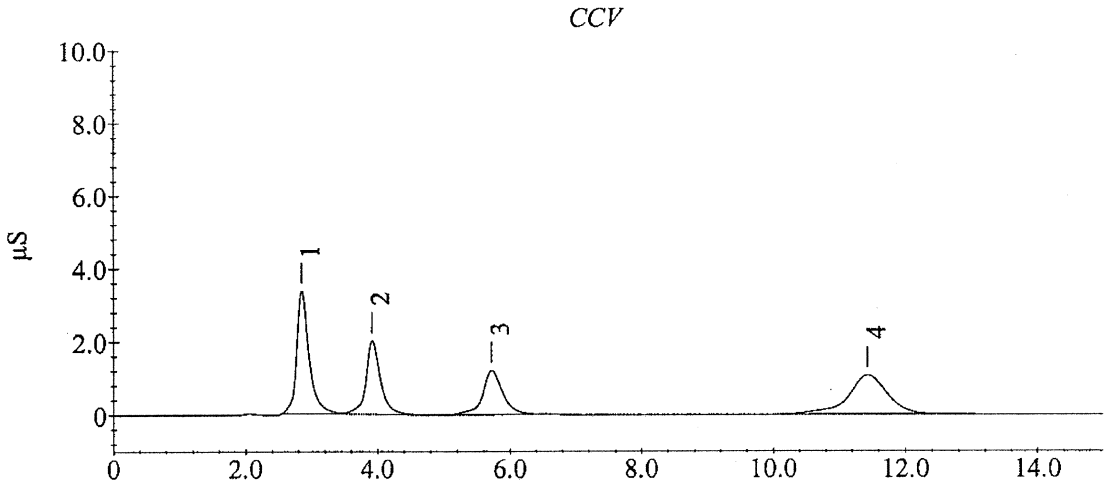
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_025.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 00:08:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 25

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.29 93	436412	33379
2	CHLORIDE,16887-00-6	3.92	2.50 100	311825	19988
3	BROMIDE,24959-67-9	5.72	4.80 96	251386	11998
4	SULFATE,14808-79-8	11.43	4.85 97	429887	10607



211050426 566

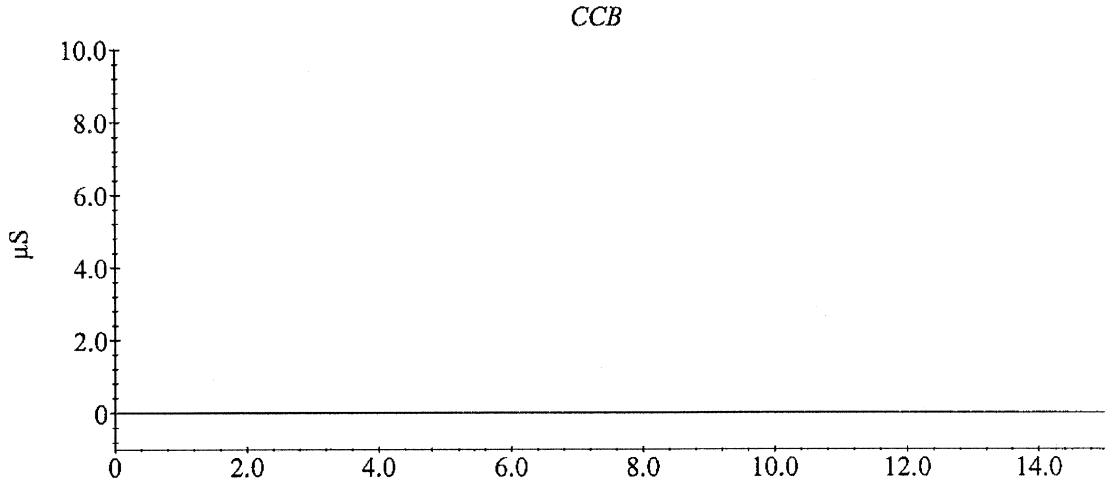
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 00:25:58
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21105426 567

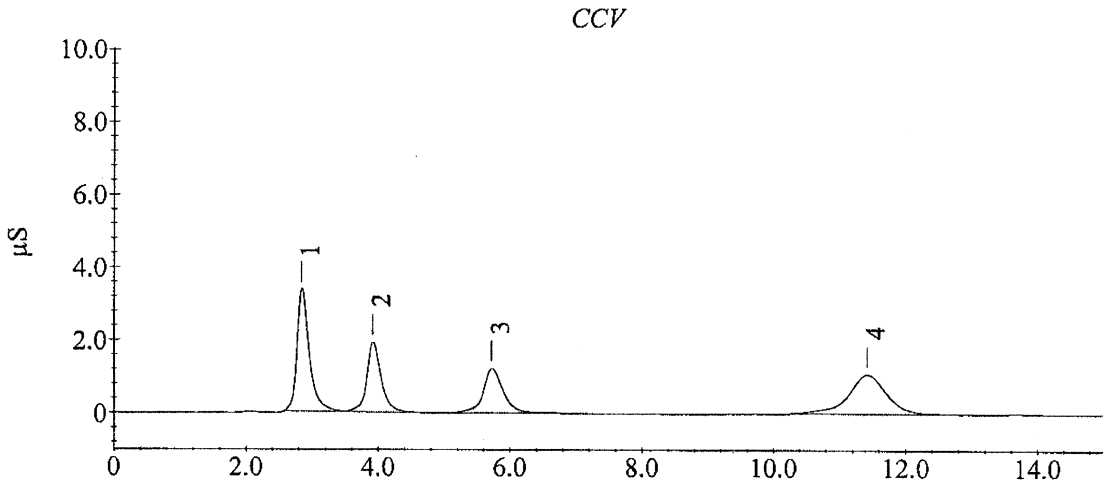
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_036.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 03:22:05
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 36

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.83	2.2992	437673	33207
2	CHLORIDE,16887-00-6	3.92	2.3895	295984	19114
3	BROMIDE,24959-67-9	5.72	4.8396	253262	12045
4	SULFATE,14808-79-8	11.42	4.8497	429622	10690



211050426 568

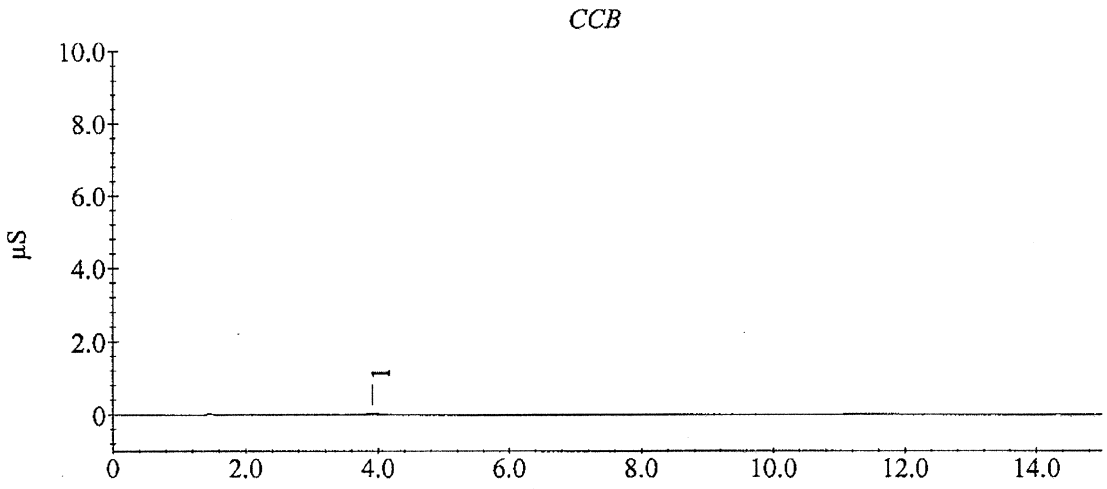
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_037.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 03:39:41
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 37

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.92	0.07	5104	419



21105426 569

ANALYST: AB2
DATE: 3-9-11
HBN# ICAL

IC STANDARDS IDS

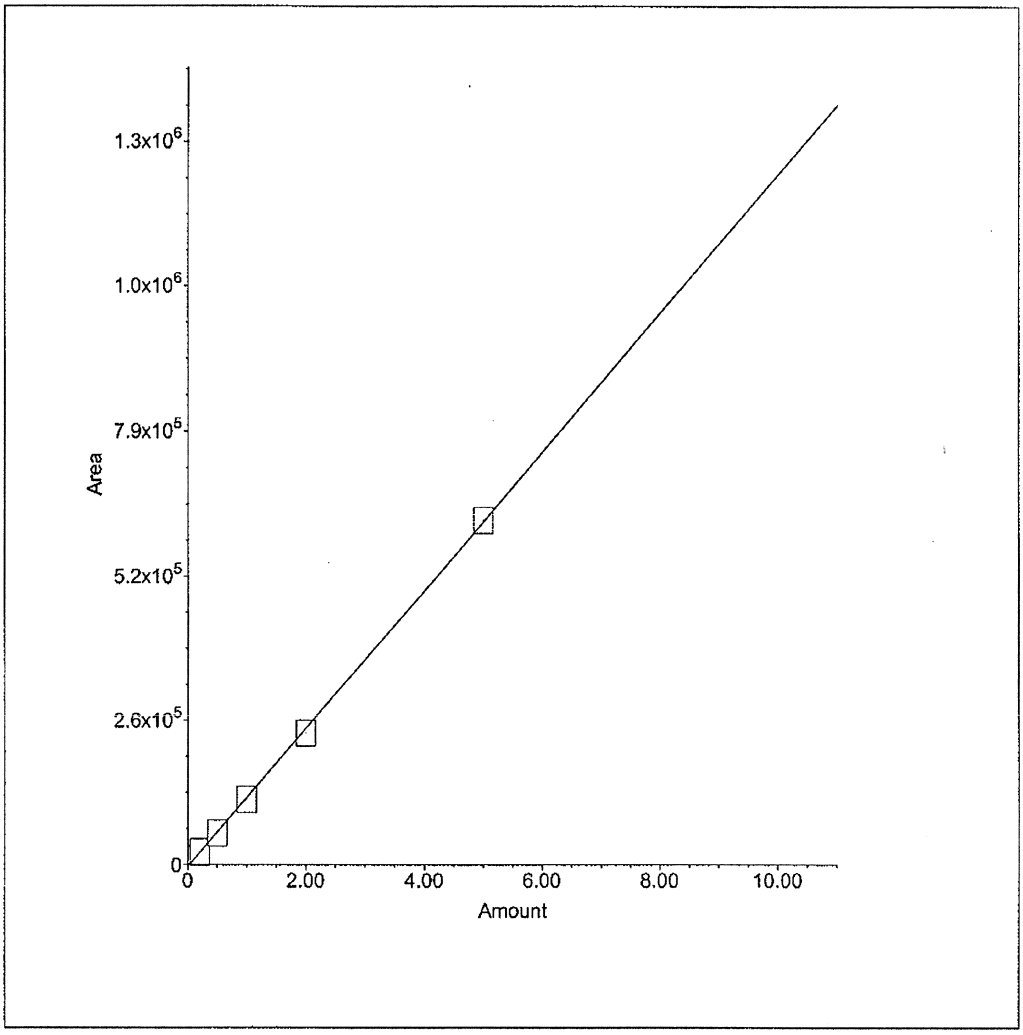
IC **300.0/9056/5050**

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11.30.11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7.15.11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9.30.11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1.30.12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7.15.11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7.30.12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7.15.11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8.18.11
Nitrate ICV/LCS Lot# 2100044
NO3 ICV/LCS Expiration Date 3-30-11
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7.30.11
Nitrite ICV/LCS Lot# 2100648
NO2 ICV/LCS Expiration Date 3-30-11
Eluent Lot # 737-99-3
Eluent Expiration Date 6-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7.30.11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: Bmc 3/10/11

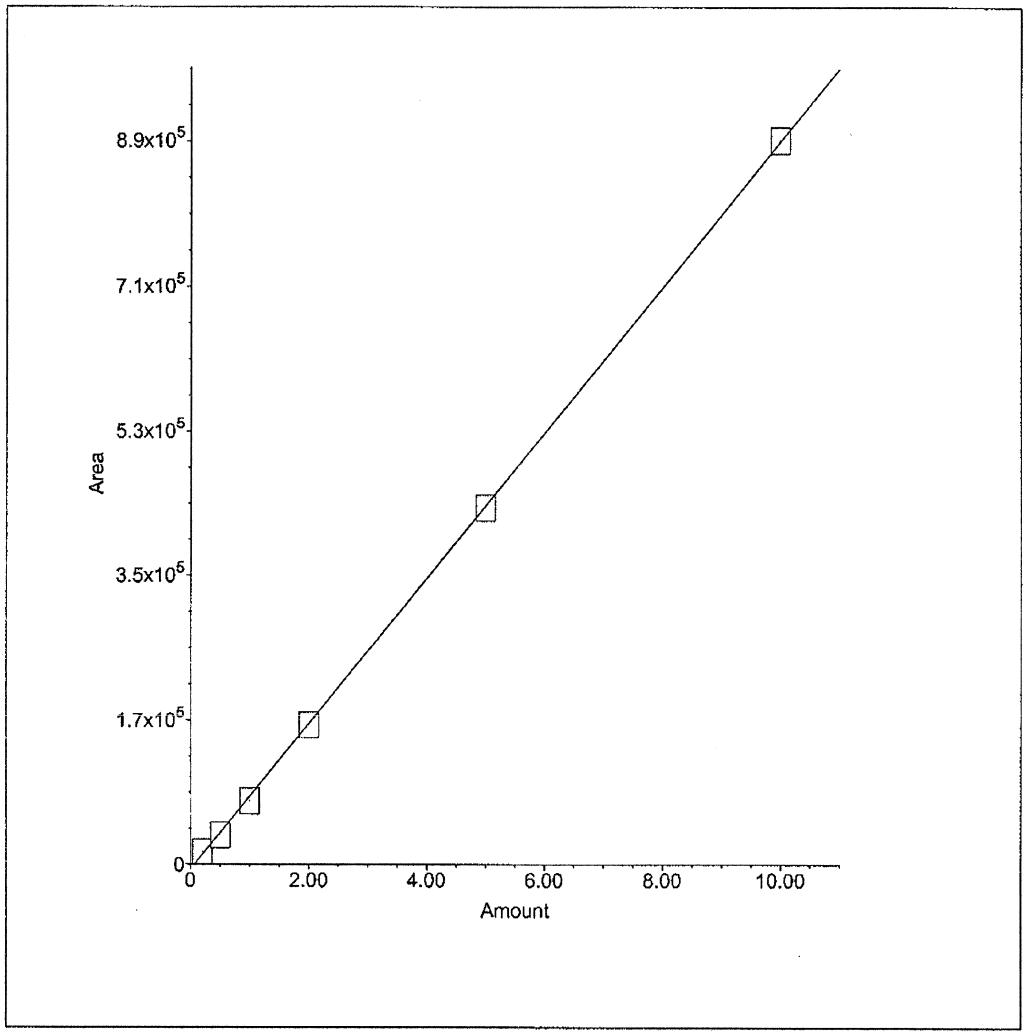
Revision 0: 1/3/07

2. Component:CHLORIDE,16887-00-6
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999603
Amt=7.917e-006*Resp+0.03373



21050426 571

6. Component:SULFATE,14808-79-8
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999855
Amt=1.111e-005*Resp+0.06902



211058426 572

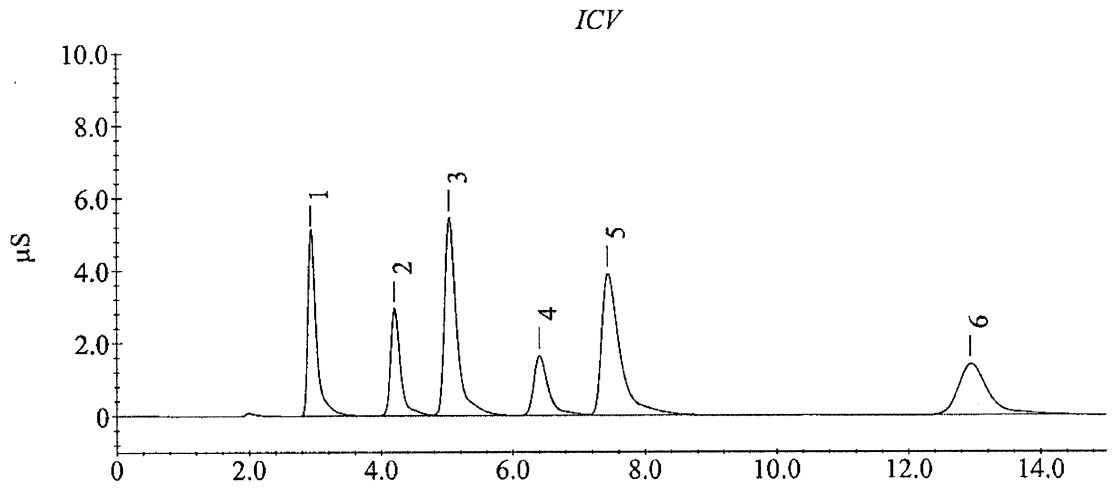
Sample Analysis Report

Sample Name : ICV
Data File Name : D:\PEAKNET\DATA\2011\032011\0309_012.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Date Time Collected : 03/09/2011 15:43:34
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 12

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.93	2.39 96	457013	49961
2	CHLORIDE,16887-00-6	4.20	2.44 98	303954	29050
3	NITRITE,14797-65-0	5.03	2.42 97	698787	54082
4	BROMIDE,24959-67-9	6.40	4.88 98	255750	16206
5	NITRATE,14797-55-8	7.43	2.40 96	758309	38690
6	SULFATE,14808-79-8	12.93	4.89 98	433979	13814



211050426 573

LACHAT STANDARD IDs

Analyst: AER

Date: 5-6-11

HBN #: 455832

Batch #: 9531

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	2110092
CCV Expiration Date	7-30-11
ICV/LCS Lot #	NA
ICV Expiration Date	NA
Phosphate Buffer Lot #	803-62-8
Pyridine-Barbituric Acid Lot #	2110198
Chloramine T Lot #	803-63-9
0.25N NaOH Lot #	803-63-1
Calibration Date	3-7-11
Calibration Expiration Date	7-30-11

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	
CCV Expiration Date	
NO2 CCV Lot #	
CCV Expiration Date	
NO3 ICV/LCS Lot #	
ICV Expiration Date	
NO2 ICV/CCV Lot #	
ICV Expiration Date	
Ammonium Chloride Buffer	
Sulfanilamide Color Reagent	
HCl Concentrated	
NH4OH Concentrated	
Sodium Thiosulfate 0.025N	
N+N Calibration Date	
N+N Calibration Expiration Date	
NO2 Calibration Date	
NO2 Calibration Expiration Date	
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

Reviewed By: _____

Author: AEL

Date : 05/06/2011

Original Run Filename: OM_05-06-2011_14-00-15.OMN created 05/06/2011 14:00:15
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_14-00-15.OMN last modified 05/06/2011 14:35:31
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57 -12-5 (mg/L)	Detection Time	MDF	
1800	1	0.0489	05/06/2011@14:01:06		98
Known Conc:		0.0500			
Calibration:		Table/Fig. 1			
1900	1	-0.0021	05/06/2011@14:02:06		
Known Conc:		0.0000			
944419 BIM	1	-0.0022	05/06/2011@14:03:05		
944420 LCS Low	1	0.0165	05/06/2011@14:04:04		82
944421 LCS High	1	0.0833	05/06/2011@14:05:03		83
21105042601	1	-0.0016	05/06/2011@14:06:02		
21105042602	1	-0.0018	05/06/2011@14:07:01		
21105042603	1	-0.0020	05/06/2011@14:07:59		
944422 MB	1	-0.0020	05/06/2011@14:08:57		
21105042604	1	-0.0019	05/06/2011@14:09:56		
21105042605	1	-0.0015	05/06/2011@14:10:58		
21105042606	1	-0.0019	05/06/2011@14:11:58		
1800	1	0.0492	05/06/2011@14:12:56		98
Known Conc:		0.0500			
1900	1	-0.0025	05/06/2011@14:13:52		
Known Conc:		0.0000			
21105042607	1	-0.0018	05/06/2011@14:14:50		
21105042608 MS	1	0.0375	05/06/2011@14:15:48		75
21105042609 MSD	1	0.0376	05/06/2011@14:16:48		75
21105046301	1	0.0002	05/06/2011@14:17:47		
21105046302	1	-0.0003	05/06/2011@14:18:46		
21105046303	1	-0.0014	05/06/2011@14:19:45		
21105043501	1	0.0037	05/06/2011@14:20:44		
21104293401	1	-0.0010	05/06/2011@14:21:43		
21105022602	1	-0.0019	05/06/2011@14:22:41		
21105045001	1	0.2491	05/06/2011@14:23:38		RR
1800	1	0.0483	05/06/2011@14:24:36		96
Known Conc:		0.0500			
1900	1	-0.0021	05/06/2011@14:25:34		
Known Conc:		0.0000			
21105045001 AC	1	0.3455	05/06/2011@14:26:32		RR
21105045001 AC DUP	1	0.3522	05/06/2011@14:27:30		
21105045001	1	0.9103	05/06/2011@14:28:27	5.00	
1800	1	0.0479	05/06/2011@14:29:24		96
Known Conc:		0.0500			
1900	1	-0.0021	05/06/2011@14:30:23		
Known Conc:		0.0000			
21105045001 AC	1	0.9260	05/06/2011@14:31:23	5.00	
21105045001 AC DUP	1	0.9242	05/06/2011@14:32:22	5.00	
1800	1	0.0483	05/06/2011@14:33:20		97
Known Conc:		0.0500			
1900	1	-0.0022	05/06/2011@14:34:19		
Known Conc:		0.0000			

CN - AC =
0.9103 - 0.9260 = 0 CNAC

21105042G 575

CYANIDE DISTILLATION
EPA 335.2 CLP-M/EPA 335.3/SW-846 9012A/SM 4500-CN

START	5-6-11 9:00	END	11:30	ANALYST	DNM
MATRIX	(WATER) SOLID			HBN:	455725

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (mL) g	FINAL VOLUME (mL)	CHLORINE Yes	CHLORINE No	SULFIDE Yes	SULFIDE No	SAMPLE TYPE	COMMENTS	REAGENT LOT NO:
1	QC ACCOUNT	MB for HBN 455725 [INPR/9547]	944419	500	100		X		X	MB		1.25M NaOH:1 N/A
2	QC ACCOUNT	LCS for HBN 455725 [INPR/9547]	944420	500	100		X		X	LCS		
3	QC ACCOUNT	LCSHI for HBN 455725 [INPR/954	944421	500	100		X		X	LCSHI		Ca(OCl2):1 N/A
4	4747	MWQ-3	21105042601	500	100		X		X	SAMPLE		
5	4747	MWQ-4	21105042602	500	100		X		X	SAMPLE		0.1 NaS2O3:1 N/A
6	4747	MWQ-5	21105042603	500	100		X		X	SAMPLE		
7	QC ACCOUNT	MWQ-5(944118DUP)	944422	500	100		X		X	DUP		Bi(NO3):2,3 N/A
8	4747	MWQ-5-DUP	21105042604	500	100		X		X	FLDDUP		
9	4747	MWQ-6	21105042605	500	100		X		X	SAMPLE		Ascorbic Acid:2,3
10	4747	MWQ-7	21105042606	500	100		X		X	SAMPLE		
11	4747	MWQ-10	21105042607	500	100		X		X	SAMPLE		Sulfamic Acid:2,3
12	4747	MWQ-10-MS	21105042608	500	100		X		X	MS		11091601
13	4747	MWQ-10-MSD	21105042609	500	100		X		X	MSD		1:1 H2SO4:2 36-4-1
14	1369	OUTFALL 001	21105046301	500	100		X		X	SAMPLE		
15	1369	OUTFALL 002	21105046302	500	100		X		X	SAMPLE		2.5M MgCl:2 8-18-14
16	1369	OUTFALL 003	21105046303	500	100		X		X	SAMPLE		
17	4511	301-123	21105043501	500	100		X		X	SAMPLE		Zn(C2H3O2):3 N/A
* 18	4730	13650-QLV-001	21104293401	450	100		X		X	SAMPLE		
* 19	4730	13633-Stormwater	21105022602	450	100		X		X	SAMPLE		0.1% Methyl Red:3 N/A
*	0176	U26STFD	21105045001	100	100		X		X	SAMPLE		
21			21105045001	100	100						CNAC	Acetate Buffer:3 N/A
22			5001-DUP	100	100						CNAC	
23												5% NaOH (CAV):3 N/A
24												
25												1.0N [illegible] 8-19-14
26												

Type of cyanide prep: CNC-Total=2, CNAC-Amenable=1, CNFR-Free=3, CNC-CLP=4

COMMENTS:

** Limited volume on 21105022602 & 21104293401

* 21105045001 is Organic

BALANCE ID: N/A

TEMP: High

LCS/MS SPIKE ID	5-50-11	CONC:	1000ppm			Analyst Review	DATE
LCS LOW VOL	1000UL	LCS HIGH VOL	500UL	LCS CLP VOL	N/A	DNM	5-6-11
MS WATER VOL	2500UL	MS SOLID VOL	N/A				
						Secondary Review	DATE
SPIKE WITNESS	N/A						5-6-11

LACHAT STANDARD IDs

Analyst: DJH
Date: 5/13/11
HBN #: 456308
Batch #: 9558

CHLORIDE SM4500 Cl-E /9251

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
0.5M Ferric Nitrate Lot #
Mercuric Thiocyanate Lot #
Calibration Date
Calibration Expiration Date

CYANIDE 335.4/9012A

CCV Lot # 2110092
CCV Expiration Date 7/11
ICV/LCS Lot #
ICV Expiration Date
Phosphate Buffer Lot # 803-59-6
Pyridine-Barbituric Acid Lot # 2110198
Chloramine T Lot # 803-64-6
0.25N NaOH Lot # 803-63-1
Calibration Date 3/7/11
Calibration Expiration Date 7/30/11

PHENOLICS 420.4/9066

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
Phenol Buffer Lot #
4-Aminoantipyrine Lot #
Calibration Date
Calibration Expiration Date

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #
CCV Expiration Date
NO2 CCV Lot #
CCV Expiration Date
NO3 ICV/LCS Lot #
ICV Expiration Date
NO2 ICV/CCV Lot #
ICV Expiration Date
Ammonium Chloride Buffer
Sulfanilamide Color Reagent
HCl Concentrated
NH4OH Concentrated
Sodium Thiosulfate 0.025N
N+N Calibration Date
N+N Calibration Expiration Date
NO2 Calibration Date
NO2 Calibration Expiration Date
Column Efficiency (90-110%)
LCS NO3 X 100 / LCS NO2

TOTAL PHOSPHORUS 365.1

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
Ascorbic Acid Lot #
0.11N H2SO4 Lot #
Molybdate Color Lot #
Calibration Date
Calibration Expiration Date

Reviewed By: Bmc 5/19/11 (6 Bmc 5/14/11)

Author: AEL

Date : 05/13/2011

Original Run Filename: OM_05-13-2011_16-04-50.OMN created 05/13/2011 16:04:50
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_16-04-50.OMN last modified 05/13/2011 16:38:00
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57-12-5 Conc. (mg/L)	Area (Vs)	Detection Time	MDF
1800	1	0.0524	18.1071	05/13/2011@16:05:41	
Known Conc:		0.0500			
Calibration:		Table/Fig. 1			
1900	1	-0.0021	-0.0138	05/13/2011@16:06:41	
Known Conc:		0.0000			
945393 MB	1	-0.0023	-0.0560	05/13/2011@16:07:40	
945394 LCS	1	0.0214	7.8211	05/13/2011@16:08:39	
RR 945395 LCS Hi	1	0.1519	51.1758	05/13/2011@16:09:37	
21105042611	1	-0.0009	0.3976	05/13/2011@16:10:36	
21105060801	1	-0.0006	0.5068	05/13/2011@16:11:35	
RR 21105060802	1	9.7272e-5	0.7275	05/13/2011@16:12:33	
21105062501	1	0.0013	1.1192	05/13/2011@16:13:30	
21105060805	1	-0.0017	0.1458	05/13/2011@16:14:27	
21105060806	1	-0.0017	0.1247	05/13/2011@16:15:25	
21105060807	1	-0.0017	0.1161	05/13/2011@16:16:23	
1800	1	0.0529	18.2782	05/13/2011@16:17:19	
Known Conc:		0.0500			
1900	1	-0.0024	-0.1130	05/13/2011@16:18:16	
Known Conc:		0.0000			
~~21105093001~~	~~1~~	~~0.0023~~	~~1.4689~~	~~05/13/2011@16:19:13~~	RR
RR ~~21105093002 MS~~	~~1~~	~~0.0327~~	~~11.5475~~	~~05/13/2011@16:20:11~~	61% RR
RR ~~21105093003 MSD~~	~~1~~	~~-0.0019~~	~~0.0560~~	~~05/13/2011@16:21:10~~	0% RR
21105060810	1	-0.0018	0.0885	05/13/2011@16:22:09	
21105060811 MS	1	0.0473	16.4103	05/13/2011@16:23:08	95%
21105060812 MSD	1	0.0481	16.6849	05/13/2011@16:24:06	96%
21105060815	1	-0.0017	0.1306	05/13/2011@16:25:05	
21105060816	1	-0.0014	0.2243	05/13/2011@16:26:04	
21105060818	1	0.0013	1.1401	05/13/2011@16:27:01	
21105060819	1	-0.0015	0.2008	05/13/2011@16:27:59	
1800	1	0.0528	18.2306	05/13/2011@16:28:58	106%
Known Conc:		0.0500			
1900	1	-0.0020	0.0218	05/13/2011@16:29:56	
Known Conc:		0.0000			
21105042612	1	-0.0016	0.1534	05/13/2011@16:30:54	
21105042613	1	-0.0012	0.3099	05/13/2011@16:31:51	
~~945395 LCS Hi~~	~~1~~	~~0.1282~~	~~43.3060~~	~~05/13/2011@16:32:47~~	128% RR
~~21105093002 MS~~	~~1~~	~~0.0348~~	~~12.2089~~	~~05/13/2011@16:33:44~~	65% RR
~~21105093003 MSD~~	~~1~~	~~0.0342~~	~~12.0465~~	~~05/13/2011@16:34:43~~	64% RR
~~1800~~	~~1~~	~~0.0535~~	~~18.4597~~	~~05/13/2011@16:35:42~~	107%
Known Conc:		0.0500			
* RR ~~1900~~	~~1~~	~~0.0987~~	~~33.4980~~	~~05/13/2011@16:36:42~~	
Known Conc:		0.0000			

Table 1: Cyanide~57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	57.3068	2.7022	12.5	03/07/2011	09:49:44
2	0.1000	1	35.9447	1.9322	-8.4	03/07/2011	09:50:44
3	0.0500	1	20.1081	1.1398	-18.5	03/07/2011	09:51:44
4	0.0250	1	10.6890	0.6213	-20.4	03/07/2011	09:52:44
5	0.0100	1	4.5457	0.2629	-13.0	03/07/2011	09:53:42
6	0.0050	1	2.3668	0.1374	1.5	03/07/2011	09:54:41
7	0.0000	1	-0.0500	-0.0140		03/07/2011	09:55:40

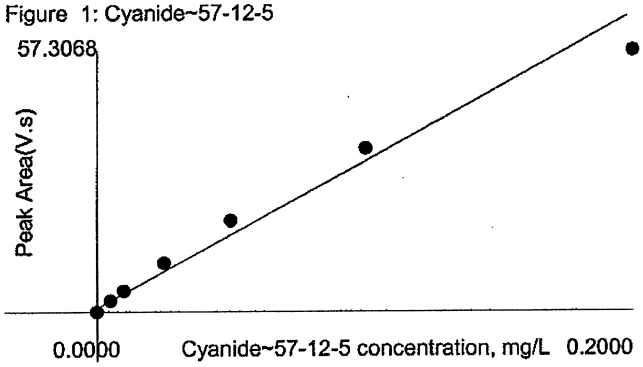
* CCB ran out of sample

21105042G 578

Author: AEL

Date : 05/13/2011

Figure 1: Cyanide~57-12-5



Area = 323.7227 * Conc + 0.7849
Conc = 0.0030 * Area - 0.0021
Correlation Coefficient (r) = 0.99709

1/x weighting

211050426 579

Author: AEL

Date : 05/13/2011

Original Run Filename: OM_05-13-2011_16-38-51.OMN created 05/13/2011 16:38:51
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_16-38-51.OMN last modified 05/13/2011 16:41:59
Current Run Author's Signature: [AEL]
Description: Default New Run

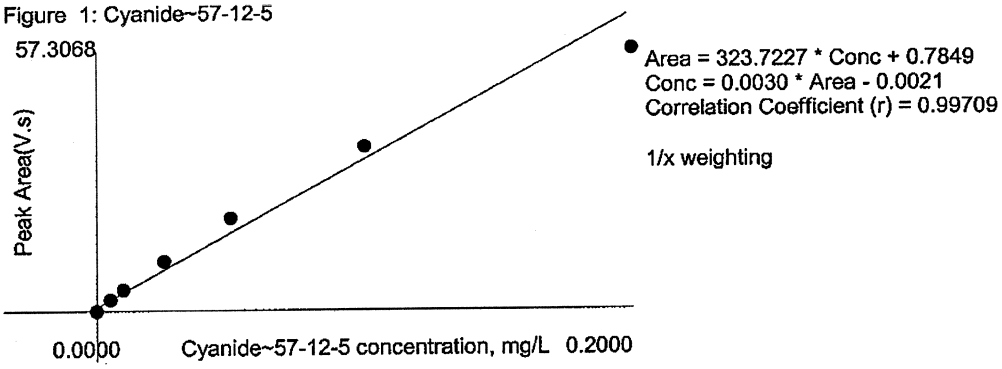
Sample	Rep.	Channel 1 Cyanide~57-12-5 Conc. (mg/L)	Area (Vs)	Detection Time	MDF
1800	1	0.0525	18.1579	05/13/2011@16:39:43	
Known Conc:		0.0500			
1900	1	-0.0022	-0.0376	05/13/2011@16:40:42	
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			

105%

Table 1: Cyanide~57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	57.3068	2.7022	12.5	03/07/2011	09:49:44
2	0.1000	1	35.9447	1.9322	-8.4	03/07/2011	09:50:44
3	0.0500	1	20.1081	1.1398	-18.5	03/07/2011	09:51:44
4	0.0250	1	10.6890	0.6213	-20.4	03/07/2011	09:52:44
5	0.0100	1	4.5457	0.2629	-13.0	03/07/2011	09:53:42
6	0.0050	1	2.3668	0.1374	1.5	03/07/2011	09:54:41
7	0.0000	1	-0.0500	-0.0140		03/07/2011	09:55:40

Figure 1: Cyanide~57-12-5



211050426 580

CYANIDE DISTILLATION
EPA 335.2 CLP-M/EPA 335.3/SW-846 9012A/SM 4500-CN

START	11:30 5-12-11	END	13:30	ANALYST	OT
MATRIX	WATER / SOLID			HBN:	455936

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	CHLORINE Yes No	SULFIDE Yes No	SAMPLE TYPE	COMMENTS	REAGENT LOT NO:
1	QC ACCOUNT	MB for HBN 455936 [INPR/9555]	945393	500	100	/	/	MB		1.25M NaOH:1
2	QC ACCOUNT	LCS for HBN 455936 [INPR/9555]	945394	500	100	/	/	LCS		8-49-11
3	QC ACCOUNT	LCSHI for HBN 455936 [INPR/955	945395	500	100	/	/	LCSHI		Ca(OCl2):1
4	4747	MWQ2	21105042611	500	100	/	/	SAMPLE		8-49-11
5	4747	MA02MW001D	21105060801	500	100	/	/	SAMPLE		0.1 NaS2O3:1
6	QC ACCOUNT	MA02MW001D(944806MS)	945396	500	100	/	/	MS	CA	8-49-11
7	4747	M114MW004	21105060802	500	100	/	/	SAMPLE		Bi(NO3):2,3
8	QC ACCOUNT	M114MW004(944807DUP)	945397	500	100	/	/	DUP	CA	NA
9	0463	EFF-5-6-11	21105062501	500	100	/	/	SAMPLE		Ascorbic Acid:2,3
10	4747	M114MW002	21105060805	500	100	/	/	SAMPLE		NA
11	4747	EB1	21105060806	500	100	/	/	EQBK		Sulfamic Acid:2,3
12	4747	M114MW003	21105060807	500	100	/	/	SAMPLE		21004449
13	4511	301-128	21105093001	500	100	/	/	SAMPLE		1:1 H2SO4:2
14	4511	301-128 MS	21105093002	500	100	/	/	MS		36-1
15	4511	301-128 MSD	21105093003	500	100	/	/	MSD		2.5M MgCl:2
16	4747	MA01MW001	21105060810	500	100	/	/	SAMPLE		8-48-14
17	4747	MA01MW001-MS	21105060811	500	100	/	/	MS		Zn(C2H3O2):3
18	4747	MA01MW001-MSD	21105060812	500	100	/	/	MSD		NA
19	4747	M114MW001	21105060815	500	100	/	/	SAMPLE		0.1% Methyl Red:3
20	4747	M114MW001-DUP	21105060816	500	100	/	/	FLDDUP		NA
21	4747	MAOMW004	21105060818	500	100	/	/	SAMPLE		Acetate Buffer:3
22	4747	MAOMW003	21105060819	500	100	/	/	SAMPLE		NA
23			MB504243	500	100	/	/			5% NaOH (CLP):4
24			MB504243	500	100	/	/			NA
25										1.0N NaOH:1,2,3
26										8-49-4

Type of cyanide prep: CNC-Total=2, CNAC-Amenable=1, CNFR-Free=3, CNC-CLP=4

COMMENTS:

BALANCE ID: _____ TEMP: High

LCS/MS SPIKE ID	8-30-17	CONC: 1000ppm			Analyst Review	DATE
LCS LOW VOL	100uL	LCS HIGH VOL 500uL	LCS CLP VOL NA		OT	5/12/11
MS WATER VOL	250uL	MS SOLID VOL NA				
					Secondary Review	DATE
SPIKE WITNESS	NA				DWB	5-12-11

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-23-11

HBN #: 456901 / 456904 / 456905

Batch #: 9585 / 9586 / 9587

2/57155
9600

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	2110092
CCV Expiration Date	7-30-11
ICV/LCS Lot #	NA
ICV Expiration Date	NA
Phosphate Buffer Lot #	803-65-6
Pyridine-Barbituric Acid Lot #	2110257
Chloramine T Lot #	803-65-7
0.25N NaOH Lot #	803-65-8
Calibration Date	3-7-11
Calibration Expiration Date	7-30-11

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	
CCV Expiration Date	
NO2 CCV Lot #	
CCV Expiration Date	
NO3 ICV/LCS Lot #	
ICV Expiration Date	
NO2 ICV/CCV Lot #	
ICV Expiration Date	
Ammonium Chloride Buffer	
Sulfanilamide Color Reagent	
HCl Concentrated	
NH4OH Concentrated	
Sodium Thiosulfate 0.025N	
N+N Calibration Date	
N+N Calibration Expiration Date	
NO2 Calibration Date	
NO2 Calibration Expiration Date	
Column Efficiency (90-110%)	
LCS NO3 X 100 / LCS NO2	

Reviewed By: BMC 5/25/11
5/26/11

Author: AEL

Date : 05/23/2011

Original Run Filename: OM_05-23-2011_10-29-00.OMN created 05/23/2011 10:29:00
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-23-2011_10-29-00.OMN last modified 05/23/2011 11:07:19
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57 -12-5 (mg/L)	Detection Time	MDF
1800	1	0.0538	05/23/2011@10:29:52	
Known Conc:		0.0500		
Calibration:		Table/Fig. 1		
1900	1	-0.0022	05/23/2011@10:30:52	
Known Conc:		0.0000		
948585 BLK	1	-0.0021	05/23/2011@10:31:51	
948586 LCS Low	1	0.0172	05/23/2011@10:32:50	
948587 LCS High	1	0.0854	05/23/2011@10:33:49	
21105183901	1	0.0035	05/23/2011@10:34:48	
948588 MS	1	0.0808	05/23/2011@10:35:47	
21105183902	1	0.0558	05/23/2011@10:36:45	
948589 MSD	1	0.0597	05/23/2011@10:37:43	
21105183903	1	0.0502	05/23/2011@10:38:41	
21105183904	1	0.0191	05/23/2011@10:39:39	
21105183905	1	0.0019	05/23/2011@10:40:37	
1800	1	0.0519	05/23/2011@10:41:34	
Known Conc:		0.0500		
1900	1	-0.0041	05/23/2011@10:42:31	
Known Conc:		0.0000		
21105183906	1	-0.0024	05/23/2011@10:43:28	
21105184401	1	0.0146	05/23/2011@10:44:26	
21105184402	1	-0.0008	05/23/2011@10:45:26	
21105192701	1	0.0098	05/23/2011@10:46:25	
21105193701	1	0.0031	05/23/2011@10:47:24	
21105193702	1	0.0183	05/23/2011@10:48:23	
21105193703	1	-0.0015	05/23/2011@10:49:22	
947658 BLK	1	-0.0022	05/23/2011@10:50:22	
947659 LCS Low	1	0.0176	05/23/2011@10:51:20	
947660 LCS High	1	0.0872	05/23/2011@10:52:18	
1800	1	0.0526	05/23/2011@10:53:16	
Known Conc:		0.0500		
1900	1	-0.0040	05/23/2011@10:54:14	
Known Conc:		0.0000		
21105042617 MS	1	0.0396	05/23/2011@10:55:12	
21105042618 MSD	1	0.0398	05/23/2011@10:56:10	
21105042614	1	-0.0007	05/23/2011@10:57:07	
21105042615	1	-0.0009	05/23/2011@10:58:03	
21105042616	1	-0.0018	05/23/2011@10:59:03	
947661 BLK	1	-0.0018	05/23/2011@11:00:03	
21105170901	1	-0.0015	05/23/2011@11:01:02	
21105170902	1	-0.0014	05/23/2011@11:02:01	
21105182601	1	-0.0006	05/23/2011@11:03:00	
21105182602	1	-0.0006	05/23/2011@11:03:59	
1800	1	0.0558	05/23/2011@11:04:58	
Known Conc:		0.0500		
1900	1	-0.0029	05/23/2011@11:05:56	
Known Conc:		0.0000		

108
86
85
RR M.I
RR M.I.
RR M.I
RR M.I.
104
RR M.I.
RR M.I.
RR M.I.
88
87
105
79
80
AR

Author: AEL

Date : 05/23/2011

Original Run Filename: OM_05-23-2011_11-08-24.OMN created 05/23/2011 11:08:24
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-23-2011_11-08-24.OMN last modified 05/23/2011 11:39:45
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57 -12-5 (mg/L)	Detection Time	MDF	
1800	1	0.0531	05/23/2011@11:09:15		106
Known Conc:		0.0500			
1900	1	-0.0086	05/23/2011@11:10:14		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
21105182603	1	-0.0015	05/23/2011@11:11:12		
21105042620	1	-0.0017	05/23/2011@11:12:11		
21105042621	1	-0.0014	05/23/2011@11:13:08		
21105190401	1	-0.0013	05/23/2011@11:14:07		
21105042622	1	-0.0019	05/23/2011@11:15:04		
21105190601	1	-0.0020	05/23/2011@11:16:01		
21105190602	1	-0.0023	05/23/2011@11:16:59		
21105190603	1	-0.0022	05/23/2011@11:17:57		
21105190604	1	-0.0018	05/23/2011@11:18:58		
21105190605	1	-0.0019	05/23/2011@11:19:57		
1800	1	0.0518	05/23/2011@11:20:57		104
Known Conc:		0.0500			
1900	1	-0.0021	05/23/2011@11:21:56		
Known Conc:		0.0000			
21105190606	1	-0.0017	05/23/2011@11:22:55		
21105190101	1	-0.0008	05/23/2011@11:23:54		
21105190201	1	-0.0021	05/23/2011@11:24:52		
21105183901	1	-0.0092	05/23/2011@11:25:51	5.00	
948588 MS	1	0.0331	05/23/2011@11:26:48	5.00	RR wrong sample
21105183902	1	-0.0147	05/23/2011@11:27:47	5.00	
948589 Dup	1	-0.0098	05/23/2011@11:28:45	5.00	
21105183903	1	-0.0023	05/23/2011@11:29:42	2.00	
21105183904	1	-0.0022	05/23/2011@11:30:39	2.00	
21105184401	1	-0.0027	05/23/2011@11:31:37	2.00	
1800	1	0.0523	05/23/2011@11:32:36		105
Known Conc:		0.0500			
1900	1	-0.0019	05/23/2011@11:33:36		
Known Conc:		0.0000			
21105192701	1	-0.0033	05/23/2011@11:34:35	2.00	
21105193702	1	-0.0020	05/23/2011@11:35:35	2.00	107
948588 MS	1	0.0537	05/23/2011@11:36:34	5.00	
1800	1	0.0523	05/23/2011@11:37:33		105
Known Conc:		0.0500			
1900	1	-0.0020	05/23/2011@11:38:33		
Known Conc:		0.0000			

Table 1: Cyanide~57-12-5

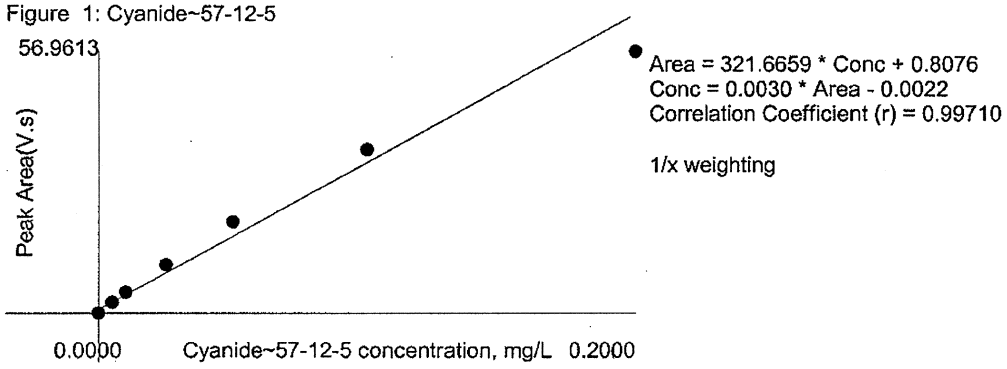
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	56.9613	2.6955	12.6	03/07/2011	10:00:05
2	0.1000	1	35.7597	1.9287	-8.4	03/07/2011	10:00:05
3	0.0500	1	20.0243	1.1382	-18.6	03/07/2011	10:00:05
4	0.0250	1	10.6455	0.6205	-20.3	03/07/2011	10:00:05
5	0.0100	1	4.5520	0.2631	-13.1	03/07/2011	10:00:05
6	0.0050	1	2.3522	0.1371	2.6	03/07/2011	10:00:05
7	0.0000	1	0.0000	-0.0140		03/07/2011	10:00:05

21105426 584

Author: AEL

Date : 05/23/2011

Figure 1: Cyanide~57-12-5



Area = 321.6659 * Conc + 0.8076
Conc = 0.0030 * Area - 0.0022
Correlation Coefficient (r) = 0.99710

1/x weighting

21050426 585

CYANIDE DISTILLATION
EPA 335.2 CLP-M/EPA 335.3/SW-846 9012A/SM 4500-CN

START	5-19-11 10:30	END	18:00	ANALYST	AT
MATRIX	WATER / SOLID			HBN:	456439

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (mL) g	FINAL VOLUME (mL)	CHLORINE Yes No	SULFIDE Yes No	SAMPLE TYPE	COMMENTS
1	QC ACCOUNT	MB for HBN 456439 [INPR/9585]	947658	500	100		X	MB	
2	QC ACCOUNT	LCS for HBN 456439 [INPR/9585]	947659	500	100		X	LCS	
3	QC ACCOUNT	LCSHI for HBN 456439 [INPR/958	947660	500	100		X	LCSHI	
4	4747	MWQ14 MS	21105042617	500	100		X	MS	
5	4747	MWQ14 MSD	21105042618	500	100		X	MSD	
6	4747	MWQ 19	21105042614	500	100		X	SAMPLE	
7	4747	MWQ 18	21105042615	500	100		X	SAMPLE	
8	4747	MWQ14	21105042616	500	100		X	SAMPLE	
9	QC ACCOUNT	MWQ14(947214DUP)	947661	500	100		X	DUP	
10	4747	MAO1MW002	21105170901	500	100		X	SAMPLE	
11	4747	MWQ23	21105170902	500	100		X	SAMPLE	
12	0176	U26SS13	21105182601	~~500~~ 100	100		X	SAMPLE	AC
13	0176	U26STBT	21105182602	~~500~~ 100	100		X	SAMPLE	
14	0176	U26STFD	21105182603	~~500~~ 100	100		X	FLDDUP	
15	4747	MWQ-20	21105042620	500	100		X	SAMPLE	
16	4747	MWQ-20 DUP	21105042621	500	100		X	FLDDUP	
17	4747	MWL6	21105190401	500	100		X	SAMPLE	
18	4747	EB2	21105042622	500	100		X	EQBK	
19									
20									
21									
22									
23									
24									
25									
26									

REAGENT LOT NO:	
1.25M NaOH:1	N/A
Ca(OCl2):1	N/A
0.1 Na$_2$S$_2$O$_3$:1	N/A
Bi(NO$_3$)$_3$:2,3	N/A
Ascorbic Acid:2,3	N/A
Sulfamic Acid:2,3	2009
1:1 H$_2$SO$_4$:2	30-4-1
2.5M MgCl:2	8-18-11
Zn(C$_2$H$_3$O$_2$):3	N/A
0.1% Methyl Red:3	N/A
Acetate Buffer:3	N/A
5% NaOH (CLP):4	N/A
1.0N NaOH:2,3	8-19-11

Type of cyanide prep: CNC-Total=2, CNAC-Amenable=1, CNFR-Free=3, CNC-CLP=4

COMMENTS:

BALANCE ID: N/A TEMP: High

LCS/MS SPIKE ID	850-17	CONC:	100PPM			Analyst Review	DATE
LCS LOW VOL	100UL	LCS HIGH VOL	500UL	LCS CLP VOL	N/A	AT	5-19-11
MS WATER VOL	250UL	MS SOLID VOL	N/A				
						Secondary Review	DATE
SPIKE WITNESS	N/A					DMM	5-19-11

HACH #: 04

STANDARD IDs

Analyst: MDT
Date: 5-4-11
HBN#: 455665
Batch#: 8605

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	A0335
ICV/LCS Lot #	2110023
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110081
Calibration Date	1-13-11
Calibration Expiration Date	1-12-12
pH meter	PH07
.45 um Filter Lot #	ROJA54556

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 5/4/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/04/2011 14:11	Cr6 CCV	98% 0.488	mg/L	CCV	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.93	11.7
05/04/2011 14:12	Cr6 CCB	<0.1 -0.009	mg/L	CCB	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.001	99.8
05/04/2011 14:12	Cr6	-0.009	mg/L	944121	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.001	99.8
05/04/2011 14:13	Cr6	98% 0.493	mg/L	944122	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.94	11.5
05/04/2011 14:13	Cr6	0.005	mg/L	21105042607	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.028	93.8
05/04/2011 14:14	Cr6	107% 0.535	mg/L MS	21105042608	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	1.019	9.6
05/04/2011 14:15	Cr6	106% 0.531	mg/L MSD	21105042609	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	1.011	9.7
05/04/2011 14:15	Cr6	-0.01	mg/L	21105042605*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.001	100.2
05/04/2011 14:16	Cr6	-0.012	mg/L	21105042601*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.005	101.2
05/04/2011 14:16	Cr6	-0.009	mg/L	21105042602*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0	100
05/04/2011 14:18	Cr6	-0.003	mg/L	21105042603*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.012	97.3
05/04/2011 14:18	Cr6	-0.006	mg/L	21105042604*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.006	98.6
05/04/2011 14:18	Cr6	92% 0.463	mg/L CCV	CCV	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.883	13.1
05/04/2011 14:19	Cr6	-0.01	mg/L	CCB	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.001	100.2
05/04/2011 14:19	Cr6	-0.009	mg/L	21105042606*	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0	100
05/04/2011 14:21	Cr6	102% 0.509	mg/L	CCV	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.97	10.7
05/04/2011 14:22	Cr6	-0.007	mg/L	CCB	8605	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.005	98.9

* Samples exceeds holding time.

21105042 595

HACH #: 04

STANDARD IDs

Analyst: AEL/JEM
Date: 5-6-11
HBN#: 455820
Batch#: 8610

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110081
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	ROJA54556

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 5/9/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	HACH4	Serial	Operator	Program	Dilution factor	Abs	%T
05/06/2011 09:33	Cr6	0.5	mg/L	100% CCV	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.952	11.2
05/06/2011 09:34	Cr6	-0.011	mg/L	CCB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.003	100.7
05/06/2011 09:34	Cr6	-0.011	mg/L	944855 MB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.004	100.9
05/06/2011 09:35	Cr6	0.538	mg/L	108% 944856 LCS	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	1.025	9.4
05/06/2011 09:36	Cr6	0.003	mg/L	21105042611	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.024	94.6
05/06/2011 09:37	Cr6	-0.021	mg/L	21105060801	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.022	105.2
05/06/2011 09:38	Cr6	-0.002	mg/L	21105060802	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.014	96.8
05/06/2011 09:39	Cr6	0.453	mg/L	91% 944857 MS	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.865	13.6
05/06/2011 09:40	Cr6	17.89D 0.457	mg/L	91% 944858 MSD	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.873	13.4
05/06/2011 09:41	Cr6	0.504	mg/L	101% CCV	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.96	11
05/06/2011 09:41	Cr6	-0.01	mg/L	CCB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.001	100.2

21105042611 595

HACH #: 04

STANDARD IDs

Analyst: MDT
Date: 5-12-11
HBN#: 456171
Batch#: 8621

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date.	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	R0JA54556

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: bmc 5/12/11

Revision 7: 1/5/11

211050426 591

Date	Result	Value	Unit	Sample	Number	Instrumen	Serial	Operator	Program	Dilution fa	Abs	%T
05/12/2011 10:36	Cr6	0.48	mg/L	9670 CCV	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.915	12.2
05/12/2011 10:37	Cr6	-0.014	mg/L	<0.1 CCB	8621	HACH4	1199649	MDT	HEX.CHRC	1	-0.009	102.1
05/12/2011 10:37	Cr6	-0.015	mg/L	MB 946326	8621	HACH4	1199649	MDT	HEX.CHRC	1	-0.01	102.3
05/12/2011 10:38	Cr6	0.455	mg/L	9170 LCS 946327	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.87	13.5
05/12/2011 10:39	Cr6	0.002	mg/L	21105042612	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.022	95.1
05/12/2011 10:39	Cr6	0.502	mg/L	SPK 1in10 946328	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.956	11.1
05/12/2011 10:40	Cr6	-0.002	mg/L	DP 946329	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.014	96.8
05/12/2011 10:40	Cr6	0.032	mg/L	21105042613	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.078	83.6
05/12/2011 10:40	Cr6	0.489	mg/L	9870 CCV	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.933	11.7
05/12/2011 10:41	Cr6	-0.004	mg/L	CCB	8621	HACH4	1199649	MDT	HEX.CHRC	1	0.01	97.7

21105042613 592

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-13-11
HBN#: 456272
Batch#: 8625

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110146
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	ROSA15488

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Pmc 5/16/11 pmc 5/16/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/13/2011 11:01	Cr6	0.512	mg/L 102%	CCV	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.975	10.6
05/13/2011 11:01	Cr6	-0.005	mg/L	CCB	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.009	97.9
05/13/2011 11:02	Cr6	-0.005	mg/L	946901 MB	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
05/13/2011 11:02	Cr6	0.506	mg/L 101%	946902 LCS	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.965	10.8
05/13/2011 11:04	Cr6	0.001	mg/L	21105042614	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.019	95.7
05/13/2011 11:05	Cr6	-0.005	mg/L	21105042615	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.009	97.9
05/13/2011 11:05	Cr6	-0.005	mg/L 0% RPD	946903 dup	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
05/13/2011 11:06	Cr6	0.475	mg/L 95%	946904 MS	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.907	12.4
05/13/2011 11:09	Cr6	0.505	mg/L 101%	CCV	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.963	10.9
05/13/2011 11:09	Cr6	-0.005	mg/L	CCB	8625	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4

21105042615 SGS

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-14-11
HBN#: 456327
Batch#: 8629

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110081
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	R1DA40441

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 5/16/11 ~~5/16/11~~ Bmc 5/16/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/14/2011 10:38	Cr6	0.49	mg/L	96% CCV	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.934	11.6
05/14/2011 10:39	Cr6	-0.006	mg/L	CCB	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
05/14/2011 10:39	Cr6	-0.006	mg/L	947221 mB	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
05/14/2011 10:39	Cr6	0.484	mg/L	97% 947222 LCS	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.922	12
05/14/2011 10:40	Cr6	-0.003	mg/L	21105042616	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.012	97.3
05/14/2011 10:40	Cr6	0.418	mg/L	84% 21105042617 MS	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.8	15.8
05/14/2011 10:40	Cr6	0.426	mg/L	85% 21105042618 MSD	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.814	15.3
05/14/2011 10:41	Cr6	0.496	mg/L	99% CCV	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.945	11.4
05/14/2011 10:42	Cr6	-0.01	mg/L	CCB	8629	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	-0.001	100.2

21105042G 595

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-18-11
HBN#: 456557
Batch#: 8640

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110081
Calibration Date	1-12-11
Calibration Expiration Date	JEM 5-18-11 ~~11-12~~ 1-12-12
pH meter	PH07
.45 um Filter Lot #	RIDA40441

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: BMC 5/18/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/18/2011 10:13	Cr6	0.531	mg/L 106%	CCV	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	1.011	9.7
05/18/2011 10:14	Cr6	-0.006	mg/L	CCB	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4
05/18/2011 10:14	Cr6	-0.006	mg/L	948220 mb	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
05/18/2011 10:15	Cr6	0.545	mg/L 109%	948221 lcs	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	1.038	9.2
05/18/2011 10:16	Cr6	-0.009	mg/L	21105042620	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.001	99.8
05/18/2011 10:16	Cr6	-0.009	mg/L 0% RPD	948222 dup	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.001	99.8
05/18/2011 10:16	Cr6	0.555	mg/L 111%	948223 ms	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	1.056	8.8
05/18/2011 10:17	Cr6	-0.009	mg/L	21105042621	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0	100
05/18/2011 10:17	Cr6	0.514	mg/L 103%	CCV	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.98	10.5
05/18/2011 10:18	Cr6	-0.02	mg/L	CCB	8640	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	-0.021	105

21105042620 599

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-19-11
HBN#: 456663
Batch#: 8644

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	21100B1
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	RIDA40441

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: BMC 5/19/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/19/2011 10:07	Cr6	0.513	mg/L	103% CCV	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.977	10.5
05/19/2011 10:07	Cr6	-0.006	mg/L	CCB	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4
05/19/2011 10:07	Cr6	-0.006	mg/L	948723 MB	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4
05/19/2011 10:08	Cr6	0.499	mg/L	100% 948724 LCS	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.952	11.2
05/19/2011 10:08	Cr6	-0.001	mg/L	21105042622	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.015	96.6
05/19/2011 10:09	Cr6	-0.002	mg/L	21105190401	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.014	96.8
05/19/2011 10:09	Cr6	-0.001	mg/L	0.001 RPD 948725 dup	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.015	96.6
05/19/2011 10:10	Cr6	0.496	mg/L	99% 948726 MS	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.945	11.4
05/19/2011 10:11	Cr6	0.508	mg/L	102% CCV	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.969	10.7
05/19/2011 10:12	Cr6	-0.006	mg/L	CCB	8644	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4

21105042622 2105

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 1-12-11
HBN#: NA
Batch#: NA

SULFIDE 4500 S D/HACH 8131

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE 300.0/9038

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE 4500 F D

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD HACH 8000

COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

Revision 7: 1/5/11

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	ROJA54556

ORTHOPHOSPHATE 365.1

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free) 4500-CL G

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron 3500-Fe D

CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: JDT 1/13/11

Test Hex. Chrom.
Calibration Date 1-12-11
Calibration Time 11:20
Analyst Jem

HACH 04

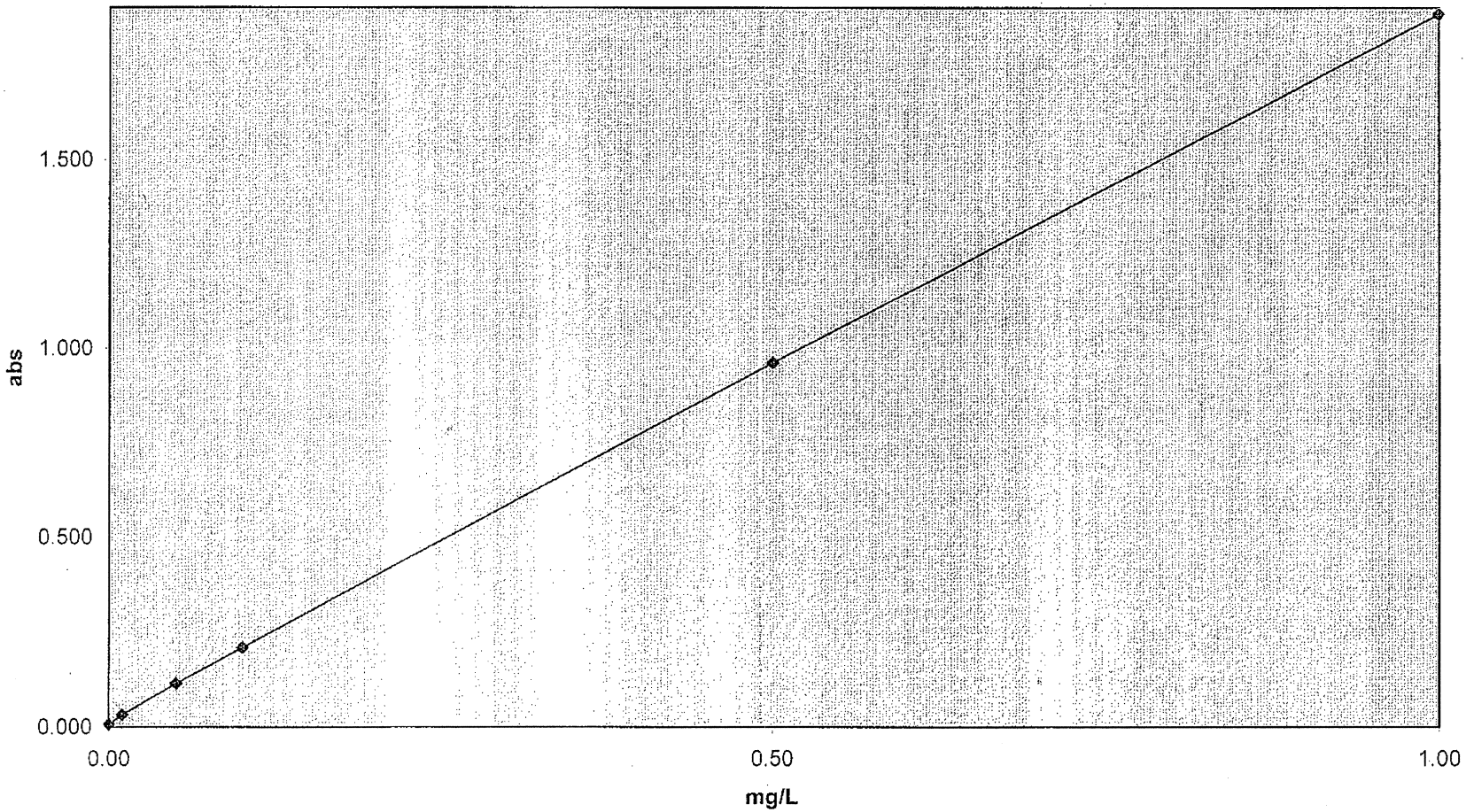
	Conc	Abs
1	0	0.008
2	0.01	0.033
3	0.05	0.116
4	0.10	0.209
5	0.50	0.962
6	1.0	1.883
7	—	—

JDT 1/13/11

R factor 0.9999

Secondary Review
JDT 1/13/11

HACH 04
Hexavalent Chromium
r^2=0.9999



CAS 9270457172

Saved as: 110112HEXHACH04ICV

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
01/12/2011 12:57	Cr6	0.507	mg/L 101%	ICV 0.5PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.965	10.8
01/12/2011 12:59	Cr6	-0.005	mg/L	ICB	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
01/12/2011 13:00	Cr6	0.006	mg/L 60%	LLCK 0.01PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.028	93.8

HACH04

DHL ANALYTICAL

June 03, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1105192

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 17 sample(s) on 5/20/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

211059426 695

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
09	W	5/11/11	1101		X	21105042612			X	MWQ22	
10	W	5/11/11	1305		X	21105042613			X	MWQ21	
11	W	5/12/11	0905		X	21105042614			X	MWQ 19	
12	W	5/13/11	1240		X	21105042615			X	MWQ 18	
13	W	5/13/11	1231		X	21105042616			X	MWQ14	
13	W	5/13/11	1231		X	21105042617 MS OF 2616			X	MWQ14 MS	
13	W	5/13/11	1231		X	21105042618 MSD OF 2616			X	MWQ14 MSD	
14	W	5/17/11	1322		X	21105042620			X	MWQ-20	
15	W	5/17/11	1322		X	21105042621			X	MWQ-20 DUP	
16	W	5/18/11	1430		X	21105190401			X	MWL6	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex	5/19/11	14:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex		5/20/11	1023
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.7°
Item #57
Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211050426 667

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1105192

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0456
Project Name/Number: 211050426
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/3/11	0915		X	21105042601			X	MWQ-3	
02	W	5/3/11	1018		X	21105042602			X	MWQ-4	
03	W	5/3/11	1157		X	21105042603			X	MWQ-5	
04	W	5/3/11	1157		X	21105042604			X	MWQ-5-DUP	
05	W	5/3/11	1312		X	21105042605			X	MWQ-6	
06	W	5/3/11	1353		X	21105042606			X	MWQ-7	
07	W	5/3/11	1523		X	21105042607			X	MWQ-10	
07	W	5/3/11	1523		X	21105042608 MS OF 2607			X	MWQ-10-MS	
07	W	5/3/11	1523		X	21105042609 MSD OF 2607			X	MWQ-10-MSD	
08	W	5/5/11	0926		X	21105042611			X	MWQ2	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/19/11	14:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/20/11	1020
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.7 Therm #57
Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211050426 608

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1105192

Chain of Custody Record

Submitted by	Bill to
Client: GCAL	Client: SAME
Address: 7979 GSRI AVE BATON ROUGE, LA 70808	Address:
Contact: DANA MERRILL	Contact:
Phone: 225-769-4900	Phone:
Fax: 225-767-5717	Fax:

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0456

Project Name/Number: 211050426

Sampled By: 4747

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
17	W	5/18/11	1030		X	21105042622			X	EB2	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/19/11	14:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/20/11	1520
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.7° Therm #57

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. No custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211050426 669

From: (225) 769-4900
Michelle Rabom
7979 GSRI Ave
Baton Rouge, LA 70820

Origin ID: OPLA

FedEx. Express

E

J111511022S0225

Ship Date: 19MAY11
ActWgt: 40.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222
JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

BILL SENDER

Ref #
Invoice #
PO #
Dept #

FRI - 20 MAY A1
PRIORITY OVERNIGHT

TRK# 0201 7947 7896 9810

A8 BSMA

78664
TX-US
AUS

5DDG1/15Z7/7EEB

211050426 610

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB | Date Received: 5/20/2011

Work Order Number 1105192 | Received by JB

Checklist completed by: [signature] 5/20/11 (Signature / Date) | Reviewed by SS 5-20-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☑	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted GCAL Date contacted: 5/20/11 Person contacted Dana Merrill

Contacted by: [signature] Regarding: COC unsigned

Comments: COC was unsigned when samples arrived. Client emailed COC signed and dated.

Corrective Action Copy of COC included in work order.

2110504426 611

Laboratory Data Package Signature Page

This data package consists of:

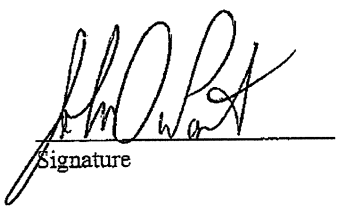
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

06/03/11
Date

211050426 612

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

21105042G 613

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/3/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105192

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

21050426 614

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: ICMS-110526A

ICAL Folder: ICMS_ClO4-101118

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst 6/1/11 Date

2nd Level Review 6.1.2011 Date

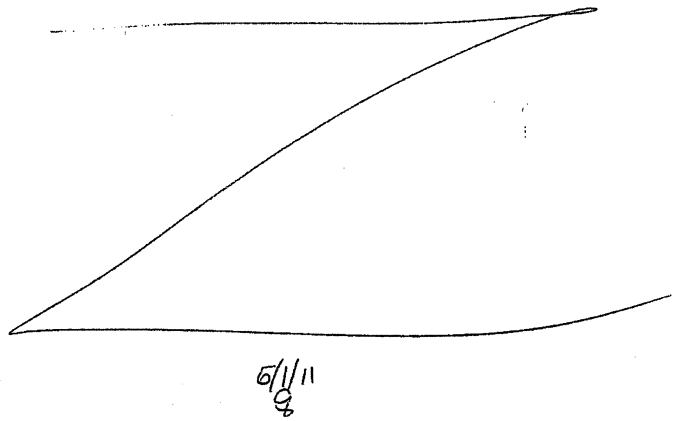
2110526A29 S15

Initial Calibration Summary

Control Program:	ClO4PGM_101118
Quantif. Method:	ClO4_101118
Recording Time:	5/26/2011 13:16
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	766.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893



211050426 616

Internal Standard Summary

Sequence Name:	110526_CLO4
Control Program:	ClO4PGM_101118
Quantif. Method:	ClO4_101118
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.518~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

6/1/11

21050426 617

1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11

21105042G 618

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/20/11. A total of 17 samples were received and all were analyzed. The Chain-of-Custody (COC) was not signed by the client when the samples arrived at DHL Analytical. The client emailed a signed copy of the COC. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Perchlorate analysis performed on 5/26/11 the matrix spike duplicate was above control limits. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the high conductivity of the samples. The samples are: 21105042611, 21105042614, 21105042615, and 21105190401. Samples 21105042620 and 21105042621 were further prepared with a smaller volume of 10 ml for final analysis.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 11 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/20/11. Sample summary sent via email from Log-in to client on 5/20/11.

21105042G 619

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105192-01	21105042601		05/03/11 09:15 AM	05/20/11
1105192-02	21105042602		05/03/11 10:18 AM	05/20/11
1105192-03	21105042603		05/03/11 11:57 AM	05/20/11
1105192-04	21105042604		05/03/11 11:57 AM	05/20/11
1105192-05	21105042605		05/03/11 01:12 PM	05/20/11
1105192-06	21105042606		05/03/11 01:53 PM	05/20/11
1105192-07	21105042607		05/03/11 03:23 PM	05/20/11
1105192-08	21105042611		05/05/11 09:26 AM	05/20/11
1105192-09	21105042612		05/11/11 11:01 AM	05/20/11
1105192-10	21105042613		05/11/11 01:05 PM	05/20/11
1105192-11	21105042614		05/12/11 09:05 AM	05/20/11
1105192-12	21105042615		05/13/11 12:40 PM	05/20/11
1105192-13	21105042616		05/13/11 12:31 PM	05/20/11
1105192-14	21105042620		05/17/11 01:22 PM	05/20/11
1105192-15	21105042621		05/17/11 01:22 PM	05/20/11
1105192-16	21105190401		05/18/11 02:30 PM	05/20/11
1105192-17	21105042622		05/18/11 10:30 AM	05/20/11

211050426 620

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105192-01A	21105042601	05/03/11 09:15 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-02A	21105042602	05/03/11 10:18 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-03A	21105042603	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-04A	21105042604	05/03/11 11:57 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-05A	21105042605	05/03/11 01:12 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-06A	21105042606	05/03/11 01:53 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-07A	21105042607	05/03/11 03:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-08A	21105042611	05/05/11 09:26 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-09A	21105042612	05/11/11 11:01 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-10A	21105042613	05/11/11 01:05 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-11A	21105042614	05/12/11 09:05 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-12A	21105042615	05/13/11 12:40 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-13A	21105042616	05/13/11 12:31 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-14A	21105042620	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-15A	21105042621	05/17/11 01:22 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-16A	21105190401	05/18/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519
1105192-17A	21105042622	05/18/11 10:30 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 10:53 AM	46519

T22 0274042 21105042

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105192

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105192-01A	21105042601	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:07 PM	ICMS_110526A
1105192-02A	21105042602	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:25 PM	ICMS_110526A
1105192-03A	21105042603	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 12:43 PM	ICMS_110526A
1105192-04A	21105042604	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:00 PM	ICMS_110526A
1105192-05A	21105042605	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:18 PM	ICMS_110526A
1105192-06A	21105042606	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:36 PM	ICMS_110526A
1105192-07A	21105042607	Aqueous	SW6860	Perchlorate - Water	46519	1	05/26/11 08:53 PM	ICMS_110526A
1105192-08A	21105042611	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 01:54 PM	ICMS_110526A
1105192-09A	21105042612	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:11 PM	ICMS_110526A
1105192-10A	21105042613	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:29 PM	ICMS_110526A
1105192-11A	21105042614	Aqueous	SW6860	Perchlorate - Water	46519	1	05/27/11 02:47 PM	ICMS_110526A
1105192-12A	21105042615	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:24 AM	ICMS_110526A
1105192-13A	21105042616	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:52 PM	ICMS_110526A
1105192-14A	21105042620	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:42 AM	ICMS_110526A
1105192-15A	21105042621	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 11:59 AM	ICMS_110526A
1105192-16A	21105190401	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:17 PM	ICMS_110526A
1105192-17A	21105042622	Aqueous	SW6860	Perchlorate - Water	46519	1	05/31/11 12:35 PM	ICMS_110526A

21105042622 922

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042601
Lab ID: 1105192-01
Collection Date: 05/03/11 09:15 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00731	0.000100	0.000300	N	mg/L	1	05/27/11 12:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 623

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042602
Lab ID: 1105192-02
Collection Date: 05/03/11 10:18 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00308	0.000100	0.000300	N	mg/L	1	05/27/11 12:25 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 624

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042603
Lab ID: 1105192-03
Collection Date: 05/03/11 11:57 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00300	0.000100	0.000300	N	mg/L	1	05/27/11 12:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 625

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042604
Lab ID: 1105192-04
Collection Date: 05/03/11 11:57 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00306	0.000100	0.000300	N	mg/L	1	05/27/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 626

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042605
Lab ID: 1105192-05
Collection Date: 05/03/11 01:12 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00398	0.000100	0.000300	N	mg/L	1	05/27/11 01:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

211050426 627

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042606
Lab ID: 1105192-06
Collection Date: 05/03/11 01:53 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00584	0.000100	0.000300	N	mg/L	1	05/27/11 01:36 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 628

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042607
Lab ID: 1105192-07
Collection Date: 05/03/11 03:23 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000530	0.000100	0.000300	N	mg/L	1	05/26/11 08:53 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 629

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042611
Lab ID: 1105192-08
Collection Date: 05/05/11 09:26 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 01:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 630

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042612
Lab ID: 1105192-09
Collection Date: 05/11/11 11:01 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00148	0.000100	0.000300	N	mg/L	1	05/27/11 02:11 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 631

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042613
Lab ID: 1105192-10
Collection Date: 05/11/11 01:05 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00827	0.000100	0.000300	N	mg/L	1	05/27/11 02:29 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 632

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042614
Lab ID: 1105192-11
Collection Date: 05/12/11 09:05 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000198	0.000198	0.000594	NU	mg/L	1	05/27/11 02:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

211050426 633

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042615
Lab ID: 1105192-12
Collection Date: 05/13/11 12:40 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0108	0.000198	0.000594	N	mg/L	1	05/31/11 11:24 AM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 634

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042616
Lab ID: 1105192-13
Collection Date: 05/13/11 12:31 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00452	0.000100	0.000300	N	mg/L	1	05/31/11 12:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050426 635

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042620
Lab ID: 1105192-14
Collection Date: 05/17/11 01:22 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:42 AM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 636

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042621
Lab ID: 1105192-15
Collection Date: 05/17/11 01:22 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000495	0.000495	0.00149	NU	mg/L	1	05/31/11 11:59 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

211050426 637

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105190401
Lab ID: 1105192-16
Collection Date: 05/18/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00994	0.000198	0.000594	N	mg/L	1	05/31/11 12:17 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050426 538

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050426
Lab Order: 1105192

Client Sample ID: 21105042622
Lab ID: 1105192-17
Collection Date: 05/18/11 10:30 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	05/31/11 12:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

211050426 639

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	1105192-07AMS	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	MS	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/26/11 09:11 PM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000876	0.000300	0.000300	0.000530	115	85	115			N

Sample ID:	1105192-07AMSD	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	MSD	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/26/11 09:28 PM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000807	0.000300	0.000300	0.00053	92.4	85	115	8.19	20	N

Sample ID:	LCS-46519	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	LCS	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/27/11 11:32 AM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000336	0.000300	0.000300	0	112	85	115			N

Sample ID:	MB-46519	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	MBLK	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/27/11 11:50 AM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU

Sample ID:	1105192-13AMS	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	MS	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/31/11 01:10 PM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00485	0.000300	0.000300	0.00452	111	85	115			N

Sample ID:	1105192-13AMSD	**Batch ID:**	46519		**TestNo:**	SW6860			**Units:**		mg/L
SampType:	MSD	**Run ID:**	ICMS_110526A		**Analysis Date:**	05/31/11 01:28 PM			**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00492	0.000300	0.000300	0.00452	136	85	115	1.51	20	SN

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110504426 640

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:23 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000220	0.000300	0.000200	0	110	70	130			N
Sample ID:	ICV1-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:41 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00202	0.000300	0.00200	0	101	85	115			N
Sample ID:	ICS1-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:59 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000261	0.000300	0.000300	0	87.1	85	115			N
Sample ID:	CCV1-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 06:14 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00506	0.000300	0.00500	0	101	85	115			N
Sample ID:	LCVL2-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 06:31 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000227	0.000300	0.000200	0	114	70	130			N
Sample ID:	CCV2-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 09:46 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00493	0.000300	0.00500	0	98.6	85	115			N
Sample ID:	LCVL3-110526	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 10:04 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000257	0.000300	0.000200	0	129	70	130			N
Sample ID:	LCVL1-110527	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 10:39 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000196	0.000300	0.000200	0	98.2	70	130			N
Sample ID:	ICV1-110527	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 10:57 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00200	0.000300	0.00200	0	100	85	115			N
Sample ID:	ICS1-110527	Batch ID:	R55139		TestNo:		SW6860			Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 11:14 AM			Prep Date:	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110506426 641

CLIENT: GCAL LAB
Work Order: 1105192
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 03:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 03:22 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 10:31 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 10:48 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 11:06 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 01:45 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 02:03 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 05:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 05:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

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Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105192-07A	21105042607	SW6860	46519	1	05/26/11 08:53 PM	05/26/11
1105192-07AMS	21105042607MS	SW6860	46519	1	05/26/11 09:11 PM	05/26/11
1105192-07AMSD	21105042607MSD	SW6860	46519	1	05/26/11 09:28 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
LCS-46519	-----	SW6860	46519	1	05/27/11 11:32 AM	05/26/11
MB-46519	-----	SW6860	46519	1	05/27/11 11:50 AM	05/26/11
1105192-01A	21105042601	SW6860	46519	1	05/27/11 12:07 PM	05/26/11
1105192-02A	21105042602	SW6860	46519	1	05/27/11 12:25 PM	05/26/11
1105192-03A	21105042603	SW6860	46519	1	05/27/11 12:43 PM	05/26/11
1105192-04A	21105042604	SW6860	46519	1	05/27/11 01:00 PM	05/26/11
1105192-05A	21105042605	SW6860	46519	1	05/27/11 01:18 PM	05/26/11
1105192-06A	21105042606	SW6860	46519	1	05/27/11 01:36 PM	05/26/11
1105192-08A	21105042611	SW6860	46519	1	05/27/11 01:54 PM	05/26/11
1105192-09A	21105042612	SW6860	46519	1	05/27/11 02:11 PM	05/26/11
1105192-10A	21105042613	SW6860	46519	1	05/27/11 02:29 PM	05/26/11
1105192-11A	21105042614	SW6860	46519	1	05/27/11 02:47 PM	05/26/11
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
1105192-12A	21105042615	SW6860	46519	1	05/31/11 11:24 AM	05/26/11
1105192-14A	21105042620	SW6860	46519	1	05/31/11 11:42 AM	05/26/11
1105192-15A	21105042621	SW6860	46519	1	05/31/11 11:59 AM	05/26/11

21105042G 643

DHL Analytical **Date:** 06/03/11

Lab Order: 1105192
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1105192-16A	21105190401	SW6860	46519	1	05/31/11 12:17 PM	05/26/11
1105192-17A	21105042622	SW6860	46519	1	05/31/11 12:35 PM	05/26/11
1105192-13A	21105042616	SW6860	46519	1	05/31/11 12:52 PM	05/26/11
1105192-13AMS	21105042616MS	SW6860	46519	1	05/31/11 01:10 PM	05/26/11
1105192-13AMSD	21105042616MSD	SW6860	46519	1	05/31/11 01:28 PM	05/26/11
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

2110504126 644

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	210504126	Stat

Report to:
Client: Trinity
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Alkalinity / TDS	Remarks:	Lab ID
GW	5/3/11	0915		X	MWQ-3		7	X		1
GW	5/3/11	1018		X	MWQ-4		7	X		2
GW	5/3/11	1157		X	MWQ-5		7	X		3
GW	5/3/11	1157		X	MWQ-5-Dup		7	X		4
GW	5/3/11	1317		X	MWQ-6		7	X		5
GW	5/3/11	1353		X	MWQ-7		7	X		6
GW	5/3/11	1523		X	MWQ-10		7	X		7
GW	5/3/11	1523		X	MWQ-10-MS		7	X		8 DUP
GW	5/3/11	1523		X	MWQ-10-MSD		7	X		9 10

Analytical Requests & Method: Alkalinity / TDS; Remarks; Cyanide (Cont. Mod.); Hexavalent Chromium; Cl / SO4 / NO3 as NO3; Total Metals (1mL HNO3); Dissolved Metals (1mL HNO3)

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Felix		5-4-11	945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SDG: Annual

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050426	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A3
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALK TITS	VOC (HCL)	Dissolved Metals (HNO3)	Remarks:	Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X	* 11	~~13~~
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X		~~14~~
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X		~~12~~
	5/5/11	926			TB1		3											~~14~~
	5/5/11	926			TB2		3											~~15~~

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ ~~Standard~~ ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5-6-11	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* sample was in the outside ice

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/11/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 8502430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Analytical Requests & Method: Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK / TS	Cl/SO4/NO3/NO2	Remarks	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X	12	
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X	13	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed up	5/11/11	1500
Fed up		5/12/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Eagle Pkwy Ste A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose

Sampled By: B. Stewart, J. Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK/TS	Cl/SO4/NO3/NO2	Remarks	Lab ID
GW	5/11/11	950		X	MWQ19		7	X	X	X	X	X	X	X	14	
GW	5/11/11	1240		X	MWQ18		7		X	X	X	X	X	X	15	

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex	5/12/11	1500
Fedex			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		05/13/11	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Extra volume labled "Field Filtered". This was not filtered, lab needs to filter. MWQ18

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

OLD ORIGINAL

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #2
Ft. Walton Beach, FL 32548
Contact: J. Kramer
Phone: 351 243 (w7)
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose

Sampled By: R. Stewart, J. Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Reactive Sulfide	COD	Alkalinity	Cl/SO4/NO3/NO2	Lab ID	Remarks:
GW	5/13/11	1231		X	MWQ14		7	X	X	X	X	X	X	X		16
GW	5/13/11	1231		X	MWQ14-MS		7	X	X	X	X	X	X	X		17 * DUP
GW	5/13/11	1231		X	MWQ14-MSD		7	X	X	X	X	X	X	X		18 * 19

Lab use only:
Custody Seal: used ☐ yes ☐ no; intact ☐ yes ☐ no
Temperature °C 3.4

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedX	5/13/11	1408
FedX	ACM	5/14/11	0920

Note: * no Cl/SO4 MS/MSD batch QC on sample MWQ18

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

CAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ste Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 8502450072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Perchlorate	Cr VI	Cyanide (NaOH)	Alk/TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/17/11	1322		X	MWQ-20		7	X	X	X	X	X	X	X	RSH 6/14/11 19 20 21	/
GW	5/17/11	1322		X	MWQ-20-Dup		7	X	X	X	X	X	X	X	Dup x 19	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed Ex	5/17/11	1600
Fed Ex		5/18/11	0845
		Date:	Time:

Note: * no Cl/SO4 MS/MSD but in QC on sample MWQ18

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

Chain of Custody Record

Lab use only — Client Name	Client #	Workorder #	Due Date
Trinity	4747	21105B426	

Report to:
Client: Trinity AOC
Address: 90NW Beal Pkwy 42
Fort Walton Beach FL, 32548
Contact: J. Kramer
Phone: 8502430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart J. Kramer

Analytical Requests & Method: Dissolved Metals (HNO3); Total Metals (HNO3); Cyanide (NaOH); Perchlorate; CrVI; ALK/T/TS; CL/SO4/NO3/NO2

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK/T/TS	CL/SO4/NO3/NO2				Remarks	Lab ID
GW	5/18/11	1450		X	MWL6		7											2110590401	/
W	5/18/11	1030		X	EB2		7											2X22 RBM 6/14/11	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	5/18/11	1600
Fed Ex	[signature]	5/19/11	0855

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050426

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters 5/12/2011 0855 5/13/2011 0920 5/6/2011 0910 5/14/2011 0920 5/18/2011 0845 5/19/2011 0855

Received by: Raborn, Michelle

Received Date/Time: 5/4/2011 9:45:00 AM

Samples Received via: WET

Number of Coolers Received: 7

Cooler tracking numbers(s): 8735 2663 9247 , 8735 2663 9203 , 8735 2663 9225 , 8735 2663 8939 8735 2663 9247 , 8735 2663 9155 , 8735 2663 9166

Cooler temperature(s): Various noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☑ Yes	☐ No	☐ N/A

Containers preserved at the laboratory: 21105042615-4(L-HNO3)

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times on COC

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 06/03/2011

GCAL Report 211050608

Deliver To	TRINITY Analysis & Development Corp. 90 NW Beal Pkwy Suite A2 Fort Walton Beach, FL 32548 850-243-0072
Attn	Jonathan Kramer

Project Melrose AFB Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211050608

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q - LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, the %D is outside ±20% for Acetone (23) in the CCV (MSV11, 05/11/11).

In the SW-846 8260B analysis for analytical batch 456001, Acetone was detected at a concentration > ½ the RL in the method blank and is therefore flagged B on the form 1s for the associated samples. The concentration is acceptable at < RL for this common lab contaminant.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis for prep batch 455907, the MS/MSD exhibited numerous recovery failures above the upper control limits. All LCS/LCSD recoveries are acceptable with the exception of recoveries below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis prep batch 456236, the LCS/LCSD recoveries are below the lower control limit for HMX. One marginal exceedance is allowed based on the number of analytes.

In the SW-846 8330 analysis, the recovery for HMX is outside the control limits in the ICV (HPLC2 05/11/11).

METALS

The dissolved concentration for some analytes is greater than the total concentration of these analytes. This can be attributed to different aliquots of the samples. It can be assumed that these analytes are present in the dissolved state in these samples.

In the SW-846 6010C dissolved and total analysis, many samples had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument.

In the SW-846 6010C analysis for prep batch 455823, the MS/MSD recoveries are not applicable for Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Calcium and Sodium on ICP6, 05/25/11 at 1633. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1739. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 455827, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Barium on ICP6, 05/25/11 at 1921. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 1949. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C Dissolved analysis for prep batch 456484, the MS/MSD recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2147. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2215. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis for prep batch 456553, the MS/MSD recoveries are not applicable for Calcium, Sodium, and Magnesium because the sample concentration is greater than four times the spike concentration. The method blank was analyzed for Sodium on ICP6, 05/20/11 at 2315. The data is reported with all other analytes on the form 3 from the run performed on ICP6, 05/24/11 at 2326. Only one schedule can be reported on a form 3 for a method blank.

In the SW-846 6010C analysis, the sodium concentration in several CCBs (IC6, 05/20/11; 2139, 2307, 0037) is greater than the LOD but less than the PQL. The concentrations are insignificant as compared to the concentration detected in the associated samples.

CONVENTIONALS

In the EPA 300.0 analysis, samples 21105060801 (MA02MW001D), 21105060802 (M114MW004), 21105060805 (M114MW002), 21105060807 (M114MW003), 21105060810 (MA01MW001), 21105060811 (MA01MW001-MS), 21105060812 (MA01MW001-MSD), 21105060815 (M114MW001), 21105060816 (M114MW001-DUP), 21105060818 (MAOMW004), 21105060819 (MAOMW003), 21105170901 (MAO1MW002) and 21105170902 (MWQ23) had to be diluted in order to bracket the concentration of the target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21105060801 (MA02MW001D), 21105060815 (M114MW001), and 21105060816 (M114MW001-DUP) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite.

In the SW-846 9012A analysis for prep batch 456439, the MS recovery is outside the control limits for Total Cyanide. All other batch QC is acceptable.

All samples analyzed for Hexavalent Chromium are filtered through a 0.45 micron filter as required by the method. The Hexavalent Chromium results for samples 21105060818 (MAOMW004) and 21105060819 (MAOMW003) are greater than the Total Chromium results. This may be attributed to an interference in the colorimetric procedure.

MISCELLANEOUS

An aliquot of samples 21105060802 (M114MW004) and 21105170902 (MWQ23) had to be filtered and preserved at the laboratory for dissolved metals.

Q Flag Application

Lab Work Order ID: **211050608**

Lab Sample ID: **21105060801**

Analysis Date: **5/12/2011 7:11:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060802**

Analysis Date: **5/12/2011 7:58:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060805**

Analysis Date: **5/12/2011 8:45:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060806**

Analysis Date: **5/12/2011 9:32:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060807**

Analysis Date: **5/13/2011 2:44:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060810**

Analysis Date: **5/13/2011 3:31:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060815**

Analysis Date: **5/11/2011 10:52:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Analysis Date: **5/12/2011 1:26:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060816**

Analysis Date: **5/11/2011 11:15:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Analysis Date: **5/12/2011 2:13:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060817**

Analysis Date: **5/11/2011 11:37:00 AM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Lab Sample ID: **21105060818**

Analysis Date: **5/11/2011 12:06:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Analysis Date: **5/12/2011 3:47:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060819**

Analysis Date: **5/11/2011 12:28:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Analysis Date: **5/12/2011 4:34:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105060820**

Analysis Date: **5/11/2011 12:50:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Acetone	67-64-1	X				

Lab Sample ID: **21105170901**

Analysis Date: **5/20/2011 4:55:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
HMX	2691-41-0		X			

Lab Sample ID: **21105170902**

Analysis Date: **5/20/2011 5:42:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL

HMX	2691-41-0		X	

Sample Test Summary Report: 211050608

Lab Sample ID	Cust. Sample ID	Matrix	Proc. Desc.	
21105060801	MAO2MW001D	W	SM 2540C TDS	
21105060801	MAO2MW001D	W	SM 2320B Alkalinity Water	
21105060801	MAO2MW001D	W	EPA 300.0 Inorganic Anions	
21105060801	MAO2MW001D	W	SW-846 6010C	
21105060801	MAO2MW001D	W	SW-846 6010C Dissolved	
21105060801	MAO2MW001D	W	SW-846 6010C Dissolved Prep	
21105060801	MAO2MW001D	W	SW-846 6010C Prep Water	
21105060801	MAO2MW001D	W	SW-846 7196A Chromium VI	
21105060801	MAO2MW001D	W	SW-846 7470A Water	
21105060801	MAO2MW001D	W	SW-846 7470A Prep Water	
21105060801	MAO2MW001D	W	SW-846 7470A Dissolved Prep	
21105060801	MAO2MW001D	W	SW-846 7470A Dissolved	
21105060801	MAO2MW001D	W	SW-846 8260B DOD Water	
21105060801	MAO2MW001D	W	SW-846 8330 Water	
21105060801	MAO2MW001D	W	SW-846 8330 Prep Water	
21105060801	MAO2MW001D	W	SW-846 9012A Cyanide Water	
21105060801	MAO2MW001D	W	SW-846 9012A Cyanide Prep Water	
21105060801	MAO2MW001D	W	EPA 353.2 Nitrite	
21105060801	MAO2MW001D	W	EPA 353.2 Nitrate	
21105060801	MAO2MW001D	W	Ship work pending results	
21105060802	M114MW004	W	SM 2540C TDS	
21105060802	M114MW004	W	SM 2320B Alkalinity Water	
21105060802	M114MW004	W	EPA 300.0 Inorganic Anions	
21105060802	M114MW004	W	SW-846 6010C	
21105060802	M114MW004	W	SW-846 6010C Dissolved	
21105060802	M114MW004	W	SW-846 6010C Dissolved Prep	
21105060802	M114MW004	W	SW-846 6010C Prep Water	
21105060802	M114MW004	W	SW-846 7196A Chromium VI	
21105060802	M114MW004	W	SW-846 7470A Water	
21105060802	M114MW004	W	SW-846 7470A Prep Water	
21105060802	M114MW004	W	SW-846 7470A Dissolved Prep	
21105060802	M114MW004	W	SW-846 7470A Dissolved	
21105060802	M114MW004	W	SW-846 8260B DOD Water	
21105060802	M114MW004	W	SW-846 8330 Water	
21105060802	M114MW004	W	SW-846 8330 Prep Water	
21105060802	M114MW004	W	SW-846 9012A Cyanide Water	
21105060802	M114MW004	W	SW-846 9012A Cyanide Prep Water	
21105060802	M114MW004	W	EPA 353.2 Nitrite	
21105060802	M114MW004	W	EPA 353.2 Nitrate	
21105060802	M114MW004	W	Ship work pending results	
21105060803	TB1	W	SW-846 8260B DOD Water	
21105060804	TB2	W	SW-846 8260B DOD Water	
21105060805	M114MW002	W	SM 2540C TDS	
21105060805	M114MW002	W	SM 2320B Alkalinity Water	
21105060805	M114MW002	W	EPA 300.0 Inorganic Anions	
21105060805	M114MW002	W	SW-846 6010C	
21105060805	M114MW002	W	SW-846 6010C Dissolved	
21105060805	M114MW002	W	SW-846 6010C Dissolved Prep	

21105060805	M114MW002	W	SW-846 6010C Prep Water
21105060805	M114MW002	W	SW-846 7196A Chromium VI
21105060805	M114MW002	W	SW-846 7470A Water
21105060805	M114MW002	W	SW-846 7470A Prep Water
21105060805	M114MW002	W	SW-846 7470A Dissolved Prep
21105060805	M114MW002	W	SW-846 7470A Dissolved
21105060805	M114MW002	W	SW-846 8260B DOD Water
21105060805	M114MW002	W	SW-846 8330 Water
21105060805	M114MW002	W	SW-846 8330 Prep Water
21105060805	M114MW002	W	SW-846 9012A Cyanide Water
21105060805	M114MW002	W	SW-846 9012A Cyanide Prep Water
21105060805	M114MW002	W	EPA 353.2 Nitrite
21105060805	M114MW002	W	EPA 353.2 Nitrate
21105060805	M114MW002	W	Ship work pending results
21105060806	EB1	W	SM 2540C TDS
21105060806	EB1	W	SM 2320B Alkalinity Water
21105060806	EB1	W	EPA 300.0 Inorganic Anions
21105060806	EB1	W	SW-846 6010C
21105060806	EB1	W	SW-846 6010C Dissolved
21105060806	EB1	W	SW-846 6010C Dissolved Prep
21105060806	EB1	W	SW-846 6010C Prep Water
21105060806	EB1	W	SW-846 7196A Chromium VI
21105060806	EB1	W	SW-846 7470A Water
21105060806	EB1	W	SW-846 7470A Prep Water
21105060806	EB1	W	SW-846 7470A Dissolved Prep
21105060806	EB1	W	SW-846 7470A Dissolved
21105060806	EB1	W	SW-846 8260B DOD Water
21105060806	EB1	W	SW-846 8330 Water
21105060806	EB1	W	SW-846 8330 Prep Water
21105060806	EB1	W	SW-846 9012A Cyanide Water
21105060806	EB1	W	SW-846 9012A Cyanide Prep Water
21105060806	EB1	W	EPA 353.2 Nitrite
21105060806	EB1	W	EPA 353.2 Nitrate
21105060806	EB1	W	Ship work pending results
21105060807	M114MW003	W	SM 2540C TDS
21105060807	M114MW003	W	SM 2320B Alkalinity Water
21105060807	M114MW003	W	EPA 300.0 Inorganic Anions
21105060807	M114MW003	W	SW-846 6010C
21105060807	M114MW003	W	SW-846 6010C Dissolved
21105060807	M114MW003	W	SW-846 6010C Dissolved Prep
21105060807	M114MW003	W	SW-846 6010C Prep Water
21105060807	M114MW003	W	SW-846 7196A Chromium VI
21105060807	M114MW003	W	SW-846 7470A Water
21105060807	M114MW003	W	SW-846 7470A Prep Water
21105060807	M114MW003	W	SW-846 7470A Dissolved Prep
21105060807	M114MW003	W	SW-846 7470A Dissolved
21105060807	M114MW003	W	SW-846 8260B DOD Water
21105060807	M114MW003	W	SW-846 8330 Water
21105060807	M114MW003	W	SW-846 8330 Prep Water
21105060807	M114MW003	W	SW-846 9012A Cyanide Water
21105060807	M114MW003	W	SW-846 9012A Cyanide Prep Water
21105060807	M114MW003	W	EPA 353.2 Nitrite

21105060807	M114MW003	W	EPA 353.2 Nitrate
21105060807	M114MW003	W	Ship work pending results
21105060808	TB4	W	SW-846 8260B DOD Water
21105060809	TB5	W	SW-846 8260B DOD Water
21105060810	MAO1MW001	W	SM 2540C TDS
21105060810	MAO1MW001	W	SM 2320B Alkalinity Water
21105060810	MAO1MW001	W	EPA 300.0 Inorganic Anions
21105060810	MAO1MW001	W	SW-846 6010C
21105060810	MAO1MW001	W	SW-846 6010C Dissolved
21105060810	MAO1MW001	W	SW-846 6010C Dissolved Prep
21105060810	MAO1MW001	W	SW-846 6010C Prep Water
21105060810	MAO1MW001	W	SW-846 7196A Chromium VI
21105060810	MAO1MW001	W	SW-846 7470A Water
21105060810	MAO1MW001	W	SW-846 7470A Prep Water
21105060810	MAO1MW001	W	SW-846 7470A Dissolved Prep
21105060810	MAO1MW001	W	SW-846 7470A Dissolved
21105060810	MAO1MW001	W	SW-846 8260B DOD Water
21105060810	MAO1MW001	W	SW-846 8330 Water
21105060810	MAO1MW001	W	SW-846 8330 Prep Water
21105060810	MAO1MW001	W	SW-846 9012A Cyanide Water
21105060810	MAO1MW001	W	SW-846 9012A Cyanide Prep Water
21105060810	MAO1MW001	W	EPA 353.2 Nitrite
21105060810	MAO1MW001	W	EPA 353.2 Nitrate
21105060810	MAO1MW001	W	Ship work pending results
21105060811	MAO1MW001-MS	W	EPA 300.0 Inorganic Anions
21105060811	MAO1MW001-MS	W	SW-846 6010C
21105060811	MAO1MW001-MS	W	SW-846 6010C Dissolved
21105060811	MAO1MW001-MS	W	SW-846 6010C Dissolved Prep
21105060811	MAO1MW001-MS	W	SW-846 6010C Prep Water
21105060811	MAO1MW001-MS	W	SW-846 7196A Chromium VI
21105060811	MAO1MW001-MS	W	SW-846 7470A Water
21105060811	MAO1MW001-MS	W	SW-846 7470A Prep Water
21105060811	MAO1MW001-MS	W	SW-846 7470A Dissolved Prep
21105060811	MAO1MW001-MS	W	SW-846 7470A Dissolved
21105060811	MAO1MW001-MS	W	SW-846 8260B DOD Water
21105060811	MAO1MW001-MS	W	SW-846 8330 Water
21105060811	MAO1MW001-MS	W	SW-846 8330 Prep Water
21105060811	MAO1MW001-MS	W	SW-846 9012A Cyanide Water
21105060811	MAO1MW001-MS	W	SW-846 9012A Cyanide Prep Water
21105060811	MAO1MW001-MS	W	EPA 353.2 Nitrite
21105060811	MAO1MW001-MS	W	EPA 353.2 Nitrate
21105060811	MAO1MW001-MS	W	Ship work pending results
21105060812	MAO1MW001-MSD	W	EPA 300.0 Inorganic Anions
21105060812	MAO1MW001-MSD	W	SW-846 6010C
21105060812	MAO1MW001-MSD	W	SW-846 6010C Dissolved
21105060812	MAO1MW001-MSD	W	SW-846 6010C Dissolved Prep
21105060812	MAO1MW001-MSD	W	SW-846 6010C Prep Water
21105060812	MAO1MW001-MSD	W	SW-846 7196A Chromium VI
21105060812	MAO1MW001-MSD	W	SW-846 7470A Water
21105060812	MAO1MW001-MSD	W	SW-846 7470A Prep Water
21105060812	MAO1MW001-MSD	W	SW-846 7470A Dissolved Prep
21105060812	MAO1MW001-MSD	W	SW-846 7470A Dissolved

21105060812	MAO1MW001-MSD	W	SW-846 8260B DOD Water
21105060812	MAO1MW001-MSD	W	SW-846 8330 Water
21105060812	MAO1MW001-MSD	W	SW-846 8330 Prep Water
21105060812	MAO1MW001-MSD	W	SW-846 9012A Cyanide Water
21105060812	MAO1MW001-MSD	W	SW-846 9012A Cyanide Prep Water
21105060812	MAO1MW001-MSD	W	EPA 353.2 Nitrite
21105060812	MAO1MW001-MSD	W	EPA 353.2 Nitrate
21105060812	MAO1MW001-MSD	W	Ship work pending results
21105060813	MA01MW001-DUP	W	SM 2540C TDS
21105060813	MA01MW001-DUP	W	SM 2320B Alkalinity Water
21105060814	TB6	W	SW-846 8260B DOD Water
21105060815	M114MW001	W	SM 2540C TDS
21105060815	M114MW001	W	SM 2320B Alkalinity Water
21105060815	M114MW001	W	EPA 300.0 Inorganic Anions
21105060815	M114MW001	W	SW-846 6010C
21105060815	M114MW001	W	SW-846 6010C Dissolved
21105060815	M114MW001	W	SW-846 6010C Dissolved Prep
21105060815	M114MW001	W	SW-846 6010C Prep Water
21105060815	M114MW001	W	SW-846 7196A Chromium VI
21105060815	M114MW001	W	SW-846 7470A Water
21105060815	M114MW001	W	SW-846 7470A Prep Water
21105060815	M114MW001	W	SW-846 7470A Dissolved Prep
21105060815	M114MW001	W	SW-846 7470A Dissolved
21105060815	M114MW001	W	SW-846 8260B DOD Water
21105060815	M114MW001	W	SW-846 8330 Water
21105060815	M114MW001	W	SW-846 8330 Prep Water
21105060815	M114MW001	W	SW-846 9012A Cyanide Water
21105060815	M114MW001	W	SW-846 9012A Cyanide Prep Water
21105060815	M114MW001	W	EPA 353.2 Nitrite
21105060815	M114MW001	W	EPA 353.2 Nitrate
21105060815	M114MW001	W	Ship work pending results
21105060816	M114MW001-DUP	W	SM 2540C TDS
21105060816	M114MW001-DUP	W	SM 2320B Alkalinity Water
21105060816	M114MW001-DUP	W	EPA 300.0 Inorganic Anions
21105060816	M114MW001-DUP	W	SW-846 6010C
21105060816	M114MW001-DUP	W	SW-846 6010C Dissolved
21105060816	M114MW001-DUP	W	SW-846 6010C Dissolved Prep
21105060816	M114MW001-DUP	W	SW-846 6010C Prep Water
21105060816	M114MW001-DUP	W	SW-846 7196A Chromium VI
21105060816	M114MW001-DUP	W	SW-846 7470A Water
21105060816	M114MW001-DUP	W	SW-846 7470A Prep Water
21105060816	M114MW001-DUP	W	SW-846 7470A Dissolved Prep
21105060816	M114MW001-DUP	W	SW-846 7470A Dissolved
21105060816	M114MW001-DUP	W	SW-846 8260B DOD Water
21105060816	M114MW001-DUP	W	SW-846 8330 Water
21105060816	M114MW001-DUP	W	SW-846 8330 Prep Water
21105060816	M114MW001-DUP	W	SW-846 9012A Cyanide Water
21105060816	M114MW001-DUP	W	SW-846 9012A Cyanide Prep Water
21105060816	M114MW001-DUP	W	EPA 353.2 Nitrite
21105060816	M114MW001-DUP	W	EPA 353.2 Nitrate
21105060816	M114MW001-DUP	W	Ship work pending results
21105060817	TB8	W	SW-846 8260B DOD Water

21105060818	MAOMW004	W	SM 2540C TDS
21105060818	MAOMW004	W	SM 2320B Alkalinity Water
21105060818	MAOMW004	W	EPA 300.0 Inorganic Anions
21105060818	MAOMW004	W	SW-846 6010C
21105060818	MAOMW004	W	SW-846 6010C Dissolved
21105060818	MAOMW004	W	SW-846 6010C Dissolved Prep
21105060818	MAOMW004	W	SW-846 6010C Prep Water
21105060818	MAOMW004	W	SW-846 7196A Chromium VI
21105060818	MAOMW004	W	SW-846 7470A Water
21105060818	MAOMW004	W	SW-846 7470A Prep Water
21105060818	MAOMW004	W	SW-846 7470A Dissolved Prep
21105060818	MAOMW004	W	SW-846 7470A Dissolved
21105060818	MAOMW004	W	SW-846 8260B DOD Water
21105060818	MAOMW004	W	SW-846 8330 Water
21105060818	MAOMW004	W	SW-846 8330 Prep Water
21105060818	MAOMW004	W	SW-846 9012A Cyanide Water
21105060818	MAOMW004	W	SW-846 9012A Cyanide Prep Water
21105060818	MAOMW004	W	EPA 353.2 Nitrite
21105060818	MAOMW004	W	EPA 353.2 Nitrate
21105060818	MAOMW004	W	Ship work pending results
21105060819	MAOMW003	W	SM 2540C TDS
21105060819	MAOMW003	W	SM 2320B Alkalinity Water
21105060819	MAOMW003	W	EPA 300.0 Inorganic Anions
21105060819	MAOMW003	W	SW-846 6010C
21105060819	MAOMW003	W	SW-846 6010C Dissolved
21105060819	MAOMW003	W	SW-846 6010C Dissolved Prep
21105060819	MAOMW003	W	SW-846 6010C Prep Water
21105060819	MAOMW003	W	SW-846 7196A Chromium VI
21105060819	MAOMW003	W	SW-846 7470A Water
21105060819	MAOMW003	W	SW-846 7470A Prep Water
21105060819	MAOMW003	W	SW-846 7470A Dissolved Prep
21105060819	MAOMW003	W	SW-846 7470A Dissolved
21105060819	MAOMW003	W	SW-846 8260B DOD Water
21105060819	MAOMW003	W	SW-846 8330 Water
21105060819	MAOMW003	W	SW-846 8330 Prep Water
21105060819	MAOMW003	W	SW-846 9012A Cyanide Water
21105060819	MAOMW003	W	SW-846 9012A Cyanide Prep Water
21105060819	MAOMW003	W	EPA 353.2 Nitrite
21105060819	MAOMW003	W	EPA 353.2 Nitrate
21105060819	MAOMW003	W	Ship work pending results
21105060820	TB7	W	SW-846 8260B DOD Water
21105170901	MAO1MW002	W	SM 2540C TDS
21105170901	MAO1MW002	W	SM 2320B Alkalinity Water
21105170901	MAO1MW002	W	EPA 300.0 Inorganic Anions
21105170901	MAO1MW002	W	SW-846 6010C
21105170901	MAO1MW002	W	SW-846 6010C Dissolved
21105170901	MAO1MW002	W	SW-846 6010C Dissolved Prep
21105170901	MAO1MW002	W	SW-846 6010C Prep Water
21105170901	MAO1MW002	W	SW-846 7196A Chromium VI
21105170901	MAO1MW002	W	SW-846 7470A Water
21105170901	MAO1MW002	W	SW-846 7470A Prep Water
21105170901	MAO1MW002	W	SW-846 7470A Dissolved Prep

21105170901	MAO1MW002	W	SW-846 7470A Dissolved
21105170901	MAO1MW002	W	SW-846 8260B DOD Water
21105170901	MAO1MW002	W	SW-846 8330 Water
21105170901	MAO1MW002	W	SW-846 8330 Prep Water
21105170901	MAO1MW002	W	SW-846 9012A Cyanide Water
21105170901	MAO1MW002	W	SW-846 9012A Cyanide Prep Water
21105170901	MAO1MW002	W	EPA 353.2 Nitrite
21105170901	MAO1MW002	W	EPA 353.2 Nitrate
21105170901	MAO1MW002	W	Ship work pending results
21105170902	MWQ23	W	SM 2540C TDS
21105170902	MWQ23	W	SM 2320B Alkalinity Water
21105170902	MWQ23	W	EPA 300.0 Inorganic Anions
21105170902	MWQ23	W	SW-846 6010C
21105170902	MWQ23	W	SW-846 6010C Dissolved
21105170902	MWQ23	W	SW-846 6010C Dissolved Prep
21105170902	MWQ23	W	SW-846 6010C Prep Water
21105170902	MWQ23	W	SW-846 7196A Chromium VI
21105170902	MWQ23	W	SW-846 7470A Water
21105170902	MWQ23	W	SW-846 7470A Prep Water
21105170902	MWQ23	W	SW-846 7470A Dissolved Prep
21105170902	MWQ23	W	SW-846 7470A Dissolved
21105170902	MWQ23	W	SW-846 8260B DOD Water
21105170902	MWQ23	W	SW-846 8330 Water
21105170902	MWQ23	W	SW-846 8330 Prep Water
21105170902	MWQ23	W	SW-846 9012A Cyanide Water
21105170902	MWQ23	W	SW-846 9012A Cyanide Prep Water
21105170902	MWQ23	W	EPA 353.2 Nitrite
21105170902	MWQ23	W	EPA 353.2 Nitrate
21105170902	MWQ23	W	Ship work pending results
21105170903	TB9	W	SW-846 8260B DOD Water

Manual Integrations

Manual Integrations: 211050608

Lab Sample ID	Cust. Sample ID	Prod. Desc.	Compound	Comp. Name	
21105060801	MAO2MW001D	SW-846 8330	528-29-0	1,2-Dinitrobenzene	
21105170902	MWQ23	SW-846 8330	528-29-0	1,2-Dinitrobenzene	

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 211050608

THIS REPORT CONTAINS 648 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10
21105060803	TB1	Water	05/05/2011 09:26	05/06/2011 09:10
21105060804	TB2	Water	05/05/2011 09:26	05/06/2011 09:10
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57
21105060808	TB4	Water	05/06/2011 00:00	05/07/2011 08:57
21105060809	TB5	Water	05/06/2011 00:00	05/07/2011 08:57
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50
21105060813	MA01MW001-DUP	Water	05/09/2011 14:16	05/10/2011 08:50
21105060814	TB6	Water	05/09/2011 00:00	05/10/2011 08:50
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25
21105060817	TB8	Water	05/10/2011 00:00	05/11/2011 07:25
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45
21105060820	TB7	Water	05/10/2011 00:00	05/11/2011 08:45
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00
21105170903	TB9	Water	05/16/2011 00:00	05/17/2011 09:00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060801

Lab File ID: 2110509p/b2571

Date Collected: 05/05/11 Time: 1223

Date Received: 05/06/11

Date Analyzed: 05/09/11 Time: 2136

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060801

Level: (low/med) Lab File ID: 2110509p/b2571

% Moisture: not dec. Date Collected: 05/05/11 Time: 1223

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2136

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	16.0		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060801

Lab File ID: 2110509p/b2571

Date Collected: 05/05/11 Time: 1223

Date Received: 05/06/11

Date Analyzed: 05/09/11 Time: 2136

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060802

Level: (low/med) Lab File ID: 2110509p/b2572

% Moisture: not dec. Date Collected: 05/05/11 Time: 1516

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2205

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060802

Level: (low/med) Lab File ID: 2110509p/b2572

% Moisture: not dec. Date Collected: 05/05/11 Time: 1516

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2205

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	12.4		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060802

Level: (low/med) Lab File ID: 2110509p/b2572

% Moisture: not dec. Date Collected: 05/05/11 Time: 1516

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2205

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060803

Level: (low/med) Lab File ID: 2110509p/b2573

% Moisture: not dec. Date Collected: 05/05/11 Time: 0926

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2227

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	2.51	JB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060803

Lab File ID: 2110509p/b2573

Date Collected: 05/05/11 Time: 0926

Date Received: 05/06/11

Date Analyzed: 05/09/11 Time: 2227

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060803

Level: (low/med) Lab File ID: 2110509p/b2573

% Moisture: not dec. Date Collected: 05/05/11 Time: 0926

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2227

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060804

Lab File ID: 2110509p/b2574

Date Collected: 05/05/11 Time: 0926

Date Received: 05/06/11

Date Analyzed: 05/09/11 Time: 2249

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060804

Level: (low/med) Lab File ID: 2110509p/b2574

% Moisture: not dec. Date Collected: 05/05/11 Time: 0926

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2249

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060804

Level: (low/med) Lab File ID: 2110509p/b2574

% Moisture: not dec. Date Collected: 05/05/11 Time: 0926

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/06/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2249

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060805

Level: (low/med) Lab File ID: 2110509p/b2575

% Moisture: not dec. Date Collected: 05/06/11 Time: 1135

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/07/11

Instrument ID: MSV11 Date Analyzed: 05/09/11 Time: 2311

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060805

Lab File ID: 2110509p/b2575

Date Collected: 05/06/11 Time: 1135

Date Received: 05/07/11

Date Analyzed: 05/09/11 Time: 2311

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	16.3		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060805

Lab File ID: 2110509p/b2575

Date Collected: 05/06/11 Time: 1135

Date Received: 05/07/11

Date Analyzed: 05/09/11 Time: 2311

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060806

Lab File ID: 2110509p/b2576

Date Collected: 05/06/11 Time: 1230

Date Received: 05/07/11

Date Analyzed: 05/09/11 Time: 2338

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	3.54	JB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060806

Lab File ID: 2110509p/b2576

Date Collected: 05/06/11 Time: 1230

Date Received: 05/07/11

Date Analyzed: 05/09/11 Time: 2338

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060806

Lab File ID: 2110509p/b2576

Date Collected: 05/06/11 Time: 1230

Date Received: 05/07/11

Date Analyzed: 05/09/11 Time: 2338

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060807

Level: (low/med) Lab File ID: 2110509p/b2577

% Moisture: not dec. Date Collected: 05/06/11 Time: 1430

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/07/11

Instrument ID: MSV11 Date Analyzed: 05/10/11 Time: 0001

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060807

Lab File ID: 2110509p/b2577

Date Collected: 05/06/11 Time: 1430

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0001

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	4.55		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060807

Lab File ID: 2110509p/b2577

Date Collected: 05/06/11 Time: 1430

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0001

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060808

Lab File ID: 2110509p/b2578

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0023

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	3.22	JB	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060808

Lab File ID: 2110509p/b2578

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0023

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060808

Lab File ID: 2110509p/b2578

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0023

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060809

Lab File ID: 2110509p/b2579

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0045

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060809

Lab File ID: 2110509p/b2579

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0045

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060809

Lab File ID: 2110509p/b2579

Date Collected: 05/06/11 Time: 0000

Date Received: 05/07/11

Date Analyzed: 05/10/11 Time: 0045

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060810

Lab File ID: 2110510p/c3262

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1758

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060810

Lab File ID: 2110510p/c3262

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1758

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	6.28		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060810

Lab File ID: 2110510p/c3262

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1758

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060811

Lab File ID: 2110510p/c3263

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1819

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	51.3		0.150	1.00
71-55-6	1,1,1-Trichloroethane	50.5		0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	50.6		0.112	1.00
79-00-5	1,1,2-Trichloroethane	50.6		0.179	1.00
75-34-3	1,1-Dichloroethane	50.0		0.064	1.00
75-35-4	1,1-Dichloroethene	49.0		0.183	1.00
563-58-6	1,1-Dichloropropene	55.3		0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	45.4		0.107	1.00
96-18-4	1,2,3-Trichloropropane	50.7		0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	44.7		0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	48.3		0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	43.6		0.082	1.00
106-93-4	1,2-Dibromoethane	51.6		0.169	1.00
95-50-1	1,2-Dichlorobenzene	51.0		0.086	1.00
107-06-2	1,2-Dichloroethane	49.1		0.121	1.00
78-87-5	1,2-Dichloropropane	52.4		0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	48.2		0.053	1.00
541-73-1	1,3-Dichlorobenzene	51.6		0.080	1.00
142-28-9	1,3-Dichloropropane	51.9		0.113	1.00
106-46-7	1,4-Dichlorobenzene	48.8		0.058	1.00
594-20-7	2,2-Dichloropropane	38.4		0.112	1.00
78-93-3	2-Butanone	44.7		0.235	5.00
95-49-8	2-Chlorotoluene	55.3		0.090	1.00
591-78-6	2-Hexanone	39.7		0.302	5.00
106-43-4	4-Chlorotoluene	48.3		0.046	1.00
99-87-6	4-Isopropyltoluene	48.2		0.175	1.00
108-10-1	4-Methyl-2-pentanone	44.8		0.142	5.00
67-64-1	Acetone	31.1		0.322	5.00
71-43-2	Benzene	48.4		0.049	1.00
108-86-1	Bromobenzene	51.8		0.095	1.00
74-97-5	Bromochloromethane	51.2		0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060811

Lab File ID: 2110510p/c3263

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1819

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	52.7		0.071	1.00
75-25-2	Bromoform	45.4		0.278	1.00
74-83-9	Bromomethane	43.7		0.276	1.00
75-15-0	Carbon disulfide	49.6		0.190	1.00
56-23-5	Carbon tetrachloride	51.6		0.056	1.00
108-90-7	Chlorobenzene	48.6		0.055	1.00
75-00-3	Chloroethane	52.3		0.279	1.00
67-66-3	Chloroform	49.8		0.062	1.00
74-87-3	Chloromethane	50.6		0.076	1.00
74-95-3	Dibromomethane	50.0		0.197	1.00
75-71-8	Dichlorodifluoromethane	51.1		0.088	1.00
100-41-4	Ethylbenzene	53.1		0.180	1.00
87-68-3	Hexachlorobutadiene	48.8		0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	48.4		0.058	1.00
75-09-2	Methylene chloride	47.5		0.102	5.00
91-20-3	Naphthalene	44.0		0.175	1.00
100-42-5	Styrene	47.7		0.058	1.00
127-18-4	Tetrachloroethene	51.6		0.141	1.00
108-88-3	Toluene	54.8		0.078	1.00
79-01-6	Trichloroethene	49.3		0.094	1.00
75-69-4	Trichlorofluoromethane	49.4		0.094	1.00
75-01-4	Vinyl chloride	50.7		0.104	1.00
156-59-2	cis-1,2-Dichloroethene	52.9		0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	45.5		0.105	1.00
136777-61-	m,p-Xylene	98.1		0.099	2.00
104-51-8	n-Butylbenzene	48.1		0.068	1.00
103-65-1	n-Propylbenzene	48.8		0.069	1.00
95-47-6	o-Xylene	49.5		0.077	1.00
135-98-8	sec-Butylbenzene	48.1		0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	38.7		0.084	5.00
98-06-6	tert-Butylbenzene	49.2		0.058	1.00
156-60-5	trans-1,2-Dichloroethene	51.4		0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060811

Lab File ID: 2110510p/c3263

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1819

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	43.6		0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060812

Lab File ID: 2110510p/c3264

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1841

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	50.1		0.150	1.00
71-55-6	1,1,1-Trichloroethane	49.1		0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	49.4		0.112	1.00
79-00-5	1,1,2-Trichloroethane	49.7		0.179	1.00
75-34-3	1,1-Dichloroethane	49.2		0.064	1.00
75-35-4	1,1-Dichloroethene	47.0		0.183	1.00
563-58-6	1,1-Dichloropropene	53.2		0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	45.3		0.107	1.00
96-18-4	1,2,3-Trichloropropane	49.2		0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	44.1		0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	47.3		0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	43.2		0.082	1.00
106-93-4	1,2-Dibromoethane	51.0		0.169	1.00
95-50-1	1,2-Dichlorobenzene	50.3		0.086	1.00
107-06-2	1,2-Dichloroethane	48.5		0.121	1.00
78-87-5	1,2-Dichloropropane	51.4		0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	47.1		0.053	1.00
541-73-1	1,3-Dichlorobenzene	50.0		0.080	1.00
142-28-9	1,3-Dichloropropane	51.0		0.113	1.00
106-46-7	1,4-Dichlorobenzene	48.0		0.058	1.00
594-20-7	2,2-Dichloropropane	39.8		0.112	1.00
78-93-3	2-Butanone	42.2		0.235	5.00
95-49-8	2-Chlorotoluene	53.8		0.090	1.00
591-78-6	2-Hexanone	39.0		0.302	5.00
106-43-4	4-Chlorotoluene	47.2		0.046	1.00
99-87-6	4-Isopropyltoluene	46.3		0.175	1.00
108-10-1	4-Methyl-2-pentanone	43.4		0.142	5.00
67-64-1	Acetone	32.3		0.322	5.00
71-43-2	Benzene	46.4		0.049	1.00
108-86-1	Bromobenzene	51.1		0.095	1.00
74-97-5	Bromochloromethane	51.2		0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21105060812

Level: (low/med) Lab File ID: 2110510p/c3264

% Moisture: not dec. Date Collected: 05/09/11 Time: 1416

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 05/10/11

Instrument ID: MSV7 Date Analyzed: 05/10/11 Time: 1841

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	50.7		0.071	1.00
75-25-2	Bromoform	44.1		0.278	1.00
74-83-9	Bromomethane	45.2		0.276	1.00
75-15-0	Carbon disulfide	47.4		0.190	1.00
56-23-5	Carbon tetrachloride	50.4		0.056	1.00
108-90-7	Chlorobenzene	46.7		0.055	1.00
75-00-3	Chloroethane	50.3		0.279	1.00
67-66-3	Chloroform	48.2		0.062	1.00
74-87-3	Chloromethane	52.2		0.076	1.00
74-95-3	Dibromomethane	49.6		0.197	1.00
75-71-8	Dichlorodifluoromethane	49.5		0.088	1.00
100-41-4	Ethylbenzene	50.4		0.180	1.00
87-68-3	Hexachlorobutadiene	49.0		0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	46.2		0.058	1.00
75-09-2	Methylene chloride	46.4		0.102	5.00
91-20-3	Naphthalene	43.7		0.175	1.00
100-42-5	Styrene	46.0		0.058	1.00
127-18-4	Tetrachloroethene	49.3		0.141	1.00
108-88-3	Toluene	52.2		0.078	1.00
79-01-6	Trichloroethene	47.4		0.094	1.00
75-69-4	Trichlorofluoromethane	46.9		0.094	1.00
75-01-4	Vinyl chloride	48.6		0.104	1.00
156-59-2	cis-1,2-Dichloroethene	51.1		0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	45.9		0.105	1.00
136777-61-	m,p-Xylene	94.0		0.099	2.00
104-51-8	n-Butylbenzene	46.1		0.068	1.00
103-65-1	n-Propylbenzene	47.3		0.069	1.00
95-47-6	o-Xylene	47.9		0.077	1.00
135-98-8	sec-Butylbenzene	46.4		0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	40.0		0.084	5.00
98-06-6	tert-Butylbenzene	47.1		0.058	1.00
156-60-5	trans-1,2-Dichloroethene	49.0		0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060812

Lab File ID: 2110510p/c3264

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1841

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	43.7		0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060814

Lab File ID: 2110510p/c3266

Date Collected: 05/09/11 Time: 0000

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1923

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060814

Lab File ID: 2110510p/c3266

Date Collected: 05/09/11 Time: 0000

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1923

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060814

Lab File ID: 2110510p/c3266

Date Collected: 05/09/11 Time: 0000

Date Received: 05/10/11

Date Analyzed: 05/10/11 Time: 1923

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: *ug/L*

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060815

Lab File ID: 2110511/b2653

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1052

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UQ	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060815

Lab File ID: 2110511/b2653

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1052

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	3.06		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060815

Lab File ID: 2110511/b2653

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1052

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001-DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060816

Lab File ID: 2110511/b2654

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1115

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UQ	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001-DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060816

Lab File ID: 2110511/b2654

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1115

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	2.99		0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001-DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060816

Lab File ID: 2110511/b2654

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1115

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB8

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060817

Lab File ID: 2110511/b2655

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1137

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UQ	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB8

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060817

Lab File ID: 2110511/b2655

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1137

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB8

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060817

Lab File ID: 2110511/b2655

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1137

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060818

Lab File ID: 2110511/b2656

Date Collected: 05/10/11 Time: 1111

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1206

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	17.6	Q	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060818

Lab File ID: 2110511/b2656

Date Collected: 05/10/11 Time: 1111

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1206

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060818

Lab File ID: 2110511/b2656

Date Collected: 05/10/11 Time: 1111

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1206

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060819

Lab File ID: 2110511/b2657

Date Collected: 05/10/11 Time: 1320

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1228

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	7.24	Q	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060819

Lab File ID: 2110511/b2657

Date Collected: 05/10/11 Time: 1320

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1228

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MAOMW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060819

Lab File ID: 2110511/b2657

Date Collected: 05/10/11 Time: 1320

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1228

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB7

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060820

Lab File ID: 2110511/b2658

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1250

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	UQ	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB7

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060820

Lab File ID: 2110511/b2658

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1250

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB7

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21105060820

Lab File ID: 2110511/b2658

Date Collected: 05/10/11 Time: 0000

Date Received: 05/11/11

Date Analyzed: 05/11/11 Time: 1250

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945623

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945623

Lab File ID: 2110509p/b2570

Date Collected: Time:

Date Received:

Date Analyzed: 05/09/11 Time: 2107

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	3.02	J	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945623

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945623

Lab File ID: 2110509p/b2570

Date Collected: Time:

Date Received:

Date Analyzed: 05/09/11 Time: 2107

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945623

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945623

Lab File ID: 2110509p/b2570

Date Collected: Time:

Date Received:

Date Analyzed: 05/09/11 Time: 2107

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456001

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945919

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945919

Lab File ID: 2110510p/c3260

Date Collected: Time:

Date Received:

Date Analyzed: 05/10/11 Time: 1715

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945919

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945919

Lab File ID: 2110510p/c3260

Date Collected: Time:

Date Received:

Date Analyzed: 05/10/11 Time: 1715

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945919

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945919

Lab File ID: 2110510p/c3260

Date Collected: Time:

Date Received:

Date Analyzed: 05/10/11 Time: 1715

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 456069

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945968

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945968

Lab File ID: 2110511/b2648

Date Collected: Time:

Date Received:

Date Analyzed: 05/11/11 Time: 0841

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945968

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945968

Lab File ID: 2110511/b2648

Date Collected: Time:

Date Received:

Date Analyzed: 05/11/11 Time: 0841

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB945968

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV11

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 945968

Lab File ID: 2110511/b2648

Date Collected: Time:

Date Received:

Date Analyzed: 05/11/11 Time: 0841

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 456078

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Method: SW-846 8260B

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	MA02MW001D	102		101		102		101		0
2.	MA01MW001	97		98		105		101		0
3.	MA01MW001-MS	101		100		98		98		0
4.	MA01MW001-MSD	100		100		96		98		0
5.	TB6	97		98		105		99		0
6.	M114MW001	96		101		100		103		0
7.	M114MW001-DUP	97		101		101		103		0
8.	TB8	97		102		99		103		0
9.	MAOMW004	97		100		100		103		0
10.	MAOMW003	97		100		99		101		0
11.	TB7	96		101		99		101		0
12.	M114MW004	100		101		100		102		0
13.	LCS945624	105		103		99		100		0
14.	LCS945920	100		101		98		100		0
15.	LCS945969	102		102		98		103		0
16.	LCSD945625	105		103		99		100		0
17.	LCSD945921	100		101		97		100		0
18.	LCSD945970	101		103		96		102		0
19.	MB945623	102		101		101		99		0
20.	MB945919	99		98		105		99		0
21.	MB945968	99		101		100		102		0
22.	TB1	100		100		101		100		0
23.	TB2	102		100		102		100		0
24.	M114MW002	100		101		100		101		0
25.	EB1	99		100		100		101		0
26.	M114MW003	100		100		100		101		0
27.	TB4	100		101		101		100		0
28.	TB5	99		100		100		100		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	85 - 115
SMC 3	Toluene-d8	85 - 120
SMC 4	1,2-Dichloroethane-d4	70 - 120

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456001

SAMPLE NO. : 945624

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	52.7	105		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	55	110		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	47.4	95		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	50.3	101		75 - 125
1,1-Dichloroethane	ug/L	50	0	53.4	107		70 - 135
1,1-Dichloroethene	ug/L	50	0	56.9	114		70 - 130
1,1-Dichloropropene	ug/L	50	0	54.9	110		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	53	106		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	46.5	93		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	53.5	107		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	52	104		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	48.2	96		50 - 130
1,2-Dibromoethane	ug/L	50	0	50.6	101		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	51	102		70 - 120
1,2-Dichloroethane	ug/L	50	0	52.1	104		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.4	105		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	52.3	105		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	51.8	104		75 - 125
1,3-Dichloropropane	ug/L	50	0	49.4	99		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	51.3	103		75 - 125
2,2-Dichloropropane	ug/L	50	0	51.8	104		70 - 135
2-Butanone	ug/L	50	0	43.7	87		30 - 150
2-Chlorotoluene	ug/L	50	0	51.1	102		75 - 125
2-Hexanone	ug/L	50	0	45.1	90		55 - 130
4-Chlorotoluene	ug/L	50	0	50.8	102		75 - 130
4-Isopropyltoluene	ug/L	50	0	54.7	109		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	47.3	95		60 - 135
Acetone	ug/L	50	0	44	88		40 - 140
Benzene	ug/L	50	0	52.6	105		80 - 120
Bromobenzene	ug/L	50	0	49.3	99		75 - 125
Bromochloromethane	ug/L	50	0	55.5	111		65 - 130
Bromodichloromethane	ug/L	50	0	54	108		75 - 120
Bromoform	ug/L	50	0	53.3	107		70 - 130
Bromomethane	ug/L	50	0	44.6	89		30 - 145
Carbon disulfide	ug/L	50	0	58.5	117		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456001

Carbon tetrachloride	ug/L	50	0	56.8	114		65 - 140
Chlorobenzene	ug/L	50	0	51.2	102		80 - 120
Chloroethane	ug/L	50	0	55	110		60 - 135
Chloroform	ug/L	50	0	53.5	107		65 - 135
Chloromethane	ug/L	50	0	44	88		40 - 125
Dibromomethane	ug/L	50	0	51.5	103		75 - 125
Dichlorodifluoromethane	ug/L	50	0	59.3	119		30 - 155
Ethylbenzene	ug/L	50	0	52.1	104		75 - 125
Hexachlorobutadiene	ug/L	50	0	57.7	115		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	53.4	107		75 - 125
Methylene chloride	ug/L	50	0	49.9	100		55 - 140
Naphthalene	ug/L	50	0	50	100		55 - 140
Styrene	ug/L	50	0	52.1	104		65 - 135
Tetrachloroethene	ug/L	50	0	53.7	107		45 - 150
Toluene	ug/L	50	0	51.4	103		75 - 120
Trichloroethene	ug/L	50	0	54.4	109		70 - 125
Trichlorofluoromethane	ug/L	50	0	57.2	114		60 - 145
Vinyl chloride	ug/L	50	0	54.7	109		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	53.5	107		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	52.9	106		70 - 130
m,p-Xylene	ug/L	100	0	105	105		75 - 130
n-Butylbenzene	ug/L	50	0	55	110		70 - 135
n-Propylbenzene	ug/L	50	0	52.2	104		70 - 130
o-Xylene	ug/L	50	0	52.4	105		75 - 130
sec-Butylbenzene	ug/L	50	0	53.7	107		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	51.7	103		65 - 125
tert-Butylbenzene	ug/L	50	0	52.8	106		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	55.1	110		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	53.8	108		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456001

SAMPLE NO. : 945625

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	51	102		3		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	52.1	104		5		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98		3		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	50.3	101		0		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	50.9	102		5		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	52.3	105		8		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	51.6	103		6		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	49.3	99		7		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	49.5	99		6		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	49.2	98		8		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	48.4	97		7		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	49.4	99		2		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	50.8	102		.4		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	48.3	97		5		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	51.1	102		2		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	50.9	102		3		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	48.5	97		8		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	48.2	96		7		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	49.2	98		.4		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	48.2	96		6		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	48.2	96		7		70 - 135	0 - 30
2-Butanone	ug/L	50	47.6	95		9		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	48	96		6		75 - 125	0 - 30
2-Hexanone	ug/L	50	49.5	99		9		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	47.9	96		6		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	48.7	97		12		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	48.2	96		2		60 - 135	0 - 30
Acetone	ug/L	50	52.2	104		17		40 - 140	0 - 30
Benzene	ug/L	50	50.1	100		5		80 - 120	0 - 30
Bromobenzene	ug/L	50	47.5	95		4		75 - 125	0 - 30
Bromochloromethane	ug/L	50	54.4	109		2		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	52.5	105		3		75 - 120	0 - 30
Bromoform	ug/L	50	54.3	109		2		70 - 130	0 - 30
Bromomethane	ug/L	50	46.8	94		5		30 - 145	0 - 30
Carbon disulfide	ug/L	50	51.6	103		13		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456001

Carbon tetrachloride	ug/L	50	54	108		5		65 - 140	0 - 30
Chlorobenzene	ug/L	50	49.4	99		4		80 - 120	0 - 30
Chloroethane	ug/L	50	52.1	104		5		60 - 135	0 - 30
Chloroform	ug/L	50	51.1	102		5		65 - 135	0 - 30
Chloromethane	ug/L	50	44.3	89		.7		40 - 125	0 - 30
Dibromomethane	ug/L	50	51.5	103		0		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	55.9	112		6		30 - 155	0 - 30
Ethylbenzene	ug/L	50	49.2	98		6		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	48	96		18		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	49.4	99		8		75 - 125	0 - 30
Methylene chloride	ug/L	50	47.8	96		4		55 - 140	0 - 30
Naphthalene	ug/L	50	50.6	101		1		55 - 140	0 - 30
Styrene	ug/L	50	50.3	101		4		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	49.9	100		7		45 - 150	0 - 30
Toluene	ug/L	50	49.2	98		4		75 - 120	0 - 30
Trichloroethene	ug/L	50	51.4	103		6		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	54.6	109		5		60 - 145	0 - 30
Vinyl chloride	ug/L	50	51.3	103		6		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	51.2	102		4		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	51.6	103		2		70 - 130	0 - 30
m,p-Xylene	ug/L	100	99.1	99		6		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	48	96		14		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	47.9	96		9		70 - 130	0 - 30
o-Xylene	ug/L	50	49.8	100		5		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	47.9	96		11		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	50.8	102		2		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	47.6	95		10		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	50.9	102		8		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	52.1	104		3		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MA01MW001

Analytical Batch: 456069

SAMPLE NO. : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	51.3	103		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	50.5	101		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	50.6	101		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	50.6	101		75 - 125
1,1-Dichloroethane	ug/L	50	0	50	100		70 - 135
1,1-Dichloroethene	ug/L	50	0	49	98		70 - 130
1,1-Dichloropropene	ug/L	50	0	55.3	111		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	45.4	91		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	50.7	101		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	44.7	89		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	48.3	97		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	43.6	87		50 - 130
1,2-Dibromoethane	ug/L	50	0	51.6	103		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	51	102		70 - 120
1,2-Dichloroethane	ug/L	50	0	49.1	98		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.4	105		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	48.2	96		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	51.6	103		65 - 130
1,3-Dichloropropane	ug/L	50	0	51.9	104		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	48.8	98		65 - 130
2,2-Dichloropropane	ug/L	50	0	38.4	77		70 - 135
2-Butanone	ug/L	50	0	44.7	89		30 - 150
2-Chlorotoluene	ug/L	50	0	55.3	111		75 - 125
2-Hexanone	ug/L	50	0	39.7	79		55 - 130
4-Chlorotoluene	ug/L	50	0	48.3	97		75 - 130
4-Isopropyltoluene	ug/L	50	0	48.2	96		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	44.8	90		60 - 135
Acetone	ug/L	50	0	31.1	62		40 - 140
Benzene	ug/L	50	0	48.4	97		80 - 120
Bromobenzene	ug/L	50	0	51.8	104		75 - 125
Bromochloromethane	ug/L	50	0	51.2	102		65 - 130
Bromodichloromethane	ug/L	50	0	52.7	105		75 - 120
Bromoform	ug/L	50	0	45.4	91		70 - 130
Bromomethane	ug/L	50	0	43.7	87		30 - 145
Carbon disulfide	ug/L	50	0	49.6	99		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MA01MW001

Analytical Batch: 456069

Carbon tetrachloride	ug/L	50	0	51.6	103		65	-	140
Chlorobenzene	ug/L	50	0	48.6	97		80	-	120
Chloroethane	ug/L	50	0	52.3	105		60	-	135
Chloroform	ug/L	50	0	49.8	100		65	-	135
Chloromethane	ug/L	50	0	50.6	101		40	-	125
Dibromomethane	ug/L	50	0	50	100		75	-	125
Dichlorodifluoromethane	ug/L	50	0	51.1	102		30	-	155
Ethylbenzene	ug/L	50	0	53.1	106		75	-	125
Hexachlorobutadiene	ug/L	50	0	48.8	98		50	-	140
Isopropylbenzene (Cumene)	ug/L	50	0	48.4	97		75	-	125
Methylene chloride	ug/L	50	0	47.5	95		55	-	140
Naphthalene	ug/L	50	0	44	88		55	-	140
Styrene	ug/L	50	0	47.7	95		65	-	135
Tetrachloroethene	ug/L	50	0	51.6	103		45	-	150
Toluene	ug/L	50	6.28	54.8	97		75	-	120
Trichloroethene	ug/L	50	0	49.3	99		70	-	125
Trichlorofluoromethane	ug/L	50	0	49.4	99		60	-	145
Vinyl chloride	ug/L	50	0	50.7	101		50	-	145
cis-1,2-Dichloroethene	ug/L	50	0	52.9	106		70	-	125
cis-1,3-Dichloropropene	ug/L	50	0	45.5	91		70	-	130
m,p-Xylene	ug/L	100	0	98.1	98		75	-	130
n-Butylbenzene	ug/L	50	0	48.1	96		70	-	135
n-Propylbenzene	ug/L	50	0	48.8	98		70	-	130
o-Xylene	ug/L	50	0	49.5	99		80	-	120
sec-Butylbenzene	ug/L	50	0	48.1	96		70	-	125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	38.7	77		65	-	125
tert-Butylbenzene	ug/L	50	0	49.2	98		70	-	130
trans-1,2-Dichloroethene	ug/L	50	0	51.4	103		60	-	140
trans-1,3-Dichloropropene	ug/L	50	0	43.6	87		55	-	140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MA01MW001

Analytical Batch: 456069

SAMPLE NO. : 21105060812

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1,2-Tetrachloroethane	ug/L	50	50.1	100		2		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	49.1	98		3		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99		2		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	49.7	99		2		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	49.2	98		2		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	47	94		4		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	53.2	106		4		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	45.3	91		.2		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	49.2	98		3		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	44.1	88		1		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	47.3	95		2		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	43.2	86		.9		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	51	102		1		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	50.3	101		1		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	48.5	97		1		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	51.4	103		2		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	47.1	94		2		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	50	100		3		65 - 130	0 - 30
1,3-Dichloropropane	ug/L	50	51	102		2		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	48	96		2		65 - 130	0 - 30
2,2-Dichloropropane	ug/L	50	39.8	80		4		70 - 135	0 - 30
2-Butanone	ug/L	50	42.2	84		6		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	53.8	108		3		75 - 125	0 - 30
2-Hexanone	ug/L	50	39	78		2		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	47.2	94		2		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	46.3	93		4		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	43.4	87		3		60 - 135	0 - 30
Acetone	ug/L	50	32.3	65		4		40 - 140	0 - 30
Benzene	ug/L	50	46.4	93		4		80 - 120	0 - 30
Bromobenzene	ug/L	50	51.1	102		1		75 - 125	0 - 30
Bromochloromethane	ug/L	50	51.2	102		0		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	50.7	101		4		75 - 120	0 - 30
Bromoform	ug/L	50	44.1	88		3		70 - 130	0 - 30
Bromomethane	ug/L	50	45.2	90		3		30 - 145	0 - 30
Carbon disulfide	ug/L	50	47.4	95		5		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MA01MW001

Analytical Batch: 456069

Carbon tetrachloride	ug/L	50	50.4	101		2		65 - 140	0 - 30
Chlorobenzene	ug/L	50	46.7	93		4		80 - 120	0 - 30
Chloroethane	ug/L	50	50.3	101		4		60 - 135	0 - 30
Chloroform	ug/L	50	48.2	96		3		65 - 135	0 - 30
Chloromethane	ug/L	50	52.2	104		3		40 - 125	0 - 30
Dibromomethane	ug/L	50	49.6	99		.8		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	49.5	99		3		30 - 155	0 - 30
Ethylbenzene	ug/L	50	50.4	101		5		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	49	98		.4		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	46.2	92		5		75 - 125	0 - 30
Methylene chloride	ug/L	50	46.4	93		2		55 - 140	0 - 30
Naphthalene	ug/L	50	43.7	87		.7		55 - 140	0 - 30
Styrene	ug/L	50	46	92		4		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	49.3	99		5		45 - 150	0 - 30
Toluene	ug/L	50	52.2	92		5		75 - 120	0 - 30
Trichloroethene	ug/L	50	47.4	95		4		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	46.9	94		5		60 - 145	0 - 30
Vinyl chloride	ug/L	50	48.6	97		4		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	51.1	102		3		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	45.9	92		.9		70 - 130	0 - 30
m,p-Xylene	ug/L	100	94	94		4		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	46.1	92		4		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	47.3	95		3		70 - 130	0 - 30
o-Xylene	ug/L	50	47.9	96		3		80 - 120	0 - 30
sec-Butylbenzene	ug/L	50	46.4	93		4		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	40	80		3		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	47.1	94		4		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	49	98		5		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	43.7	87		.2		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456069

SAMPLE NO. : 945920

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	52.9	106		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	52.1	104		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	52.4	105		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	52.7	105		75 - 125
1,1-Dichloroethane	ug/L	50	0	51.7	103		70 - 135
1,1-Dichloroethene	ug/L	50	0	51.5	103		70 - 130
1,1-Dichloropropene	ug/L	50	0	57.1	114		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	50.6	101		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	53.2	106		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	50.3	101		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	50.5	101		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	47.9	96		50 - 130
1,2-Dibromoethane	ug/L	50	0	54.2	108		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	53.4	107		70 - 120
1,2-Dichloroethane	ug/L	50	0	50.2	100		70 - 130
1,2-Dichloropropane	ug/L	50	0	53.8	108		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	50.7	101		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	53.5	107		75 - 125
1,3-Dichloropropane	ug/L	50	0	54.1	108		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	51	102		75 - 125
2,2-Dichloropropane	ug/L	50	0	44.1	88		70 - 135
2-Butanone	ug/L	50	0	56.8	114		30 - 150
2-Chlorotoluene	ug/L	50	0	57.2	114		75 - 125
2-Hexanone	ug/L	50	0	50.1	100		55 - 130
4-Chlorotoluene	ug/L	50	0	50.3	101		75 - 130
4-Isopropyltoluene	ug/L	50	0	51.2	102		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	48.8	98		60 - 135
Acetone	ug/L	50	0	54.8	110		40 - 140
Benzene	ug/L	50	0	50	100		80 - 120
Bromobenzene	ug/L	50	0	53.1	106		75 - 125
Bromochloromethane	ug/L	50	0	53.1	106		65 - 130
Bromodichloromethane	ug/L	50	0	53.7	107		75 - 120
Bromoform	ug/L	50	0	47.6	95		70 - 130
Bromomethane	ug/L	50	0	46.7	93		30 - 145
Carbon disulfide	ug/L	50	0	54.7	109		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456069

Carbon tetrachloride	ug/L	50	0	53.5	107		65 - 140
Chlorobenzene	ug/L	50	0	49.6	99		80 - 120
Chloroethane	ug/L	50	0	53.8	108		60 - 135
Chloroform	ug/L	50	0	51.5	103		65 - 135
Chloromethane	ug/L	50	0	54.1	108		40 - 125
Dibromomethane	ug/L	50	0	52.6	105		75 - 125
Dichlorodifluoromethane	ug/L	50	0	53.9	108		30 - 155
Ethylbenzene	ug/L	50	0	54	108		75 - 125
Hexachlorobutadiene	ug/L	50	0	56.5	113		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	50.4	101		75 - 125
Methylene chloride	ug/L	50	0	49.2	98		55 - 140
Naphthalene	ug/L	50	0	49	98		55 - 140
Styrene	ug/L	50	0	49.5	99		65 - 135
Tetrachloroethene	ug/L	50	0	53.9	108		45 - 150
Toluene	ug/L	50	0	50.8	102		75 - 120
Trichloroethene	ug/L	50	0	51.5	103		70 - 125
Trichlorofluoromethane	ug/L	50	0	49.8	100		60 - 145
Vinyl chloride	ug/L	50	0	51.8	104		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	54.9	110		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	47.6	95		70 - 130
m,p-Xylene	ug/L	100	0	101	101		75 - 130
n-Butylbenzene	ug/L	50	0	52.2	104		70 - 135
n-Propylbenzene	ug/L	50	0	51.3	103		70 - 130
o-Xylene	ug/L	50	0	50.7	101		75 - 130
sec-Butylbenzene	ug/L	50	0	51.6	103		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	46.6	93		65 - 125
tert-Butylbenzene	ug/L	50	0	51.8	104		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	53.8	108		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	46.7	93		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456069

SAMPLE NO. : 945921

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98		7		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	48.3	97		8		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101		4		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	49.6	99		6		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	48.8	98		6		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	46.1	92		11		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	52.1	104		9		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	47.8	96		6		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	50.9	102		4		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	46.5	93		8		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	46.6	93		8		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	46.3	93		3		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	51.1	102		6		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	50.4	101		6		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	48	96		4		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	50.8	102		6		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	46.1	92		10		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	49.6	99		8		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	51.6	103		5		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	47	94		8		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	41.8	84		5		70 - 135	0 - 30
2-Butanone	ug/L	50	55	110		3		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	52.6	105		8		75 - 125	0 - 30
2-Hexanone	ug/L	50	48.4	97		3		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	46.5	93		8		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	45.9	92		11		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	48.3	97		1		60 - 135	0 - 30
Acetone	ug/L	50	50.8	102		8		40 - 140	0 - 30
Benzene	ug/L	50	46.3	93		8		80 - 120	0 - 30
Bromobenzene	ug/L	50	51	102		4		75 - 125	0 - 30
Bromochloromethane	ug/L	50	50.4	101		5		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	50.2	100		7		75 - 120	0 - 30
Bromoform	ug/L	50	45	90		6		70 - 130	0 - 30
Bromomethane	ug/L	50	44.8	90		4		30 - 145	0 - 30
Carbon disulfide	ug/L	50	47.2	94		15		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456069

Carbon tetrachloride	ug/L	50	48.8	98		9		65 - 140	0 - 30
Chlorobenzene	ug/L	50	45.3	91		9		80 - 120	0 - 30
Chloroethane	ug/L	50	49.4	99		9		60 - 135	0 - 30
Chloroform	ug/L	50	48.1	96		7		65 - 135	0 - 30
Chloromethane	ug/L	50	48	96		12		40 - 125	0 - 30
Dibromomethane	ug/L	50	50.9	102		3		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	47.7	95		12		30 - 155	0 - 30
Ethylbenzene	ug/L	50	49.1	98		10		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	50.7	101		11		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	45	90		11		75 - 125	0 - 30
Methylene chloride	ug/L	50	45.2	90		8		55 - 140	0 - 30
Naphthalene	ug/L	50	46.9	94		4		55 - 140	0 - 30
Styrene	ug/L	50	46.1	92		7		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	47.7	95		12		45 - 150	0 - 30
Toluene	ug/L	50	45.9	92		10		75 - 120	0 - 30
Trichloroethene	ug/L	50	47.4	95		8		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	44.7	89		11		60 - 145	0 - 30
Vinyl chloride	ug/L	50	46.8	94		10		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	50.4	101		9		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	45.8	92		4		70 - 130	0 - 30
m,p-Xylene	ug/L	100	91.2	91		10		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	45.7	91		13		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	45.8	92		11		70 - 130	0 - 30
o-Xylene	ug/L	50	46.4	93		9		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	45.8	92		12		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	44.4	89		5		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	47.1	94		10		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	48.3	97		11		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	44.6	89		5		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456078

SAMPLE NO. : 945969

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	54.9	110		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	56.9	114		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	52.7	105		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	52.3	105		75 - 125
1,1-Dichloroethane	ug/L	50	0	56.2	112		70 - 135
1,1-Dichloroethene	ug/L	50	0	55.5	111		70 - 130
1,1-Dichloropropene	ug/L	50	0	57	114		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	55.7	111		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	53.3	107		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	56.1	112		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	54.6	109		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	51.4	103		50 - 130
1,2-Dibromoethane	ug/L	50	0	52.3	105		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	54.2	108		70 - 120
1,2-Dichloroethane	ug/L	50	0	55.2	110		70 - 130
1,2-Dichloropropane	ug/L	50	0	57.2	114		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	54.7	109		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	55	110		75 - 125
1,3-Dichloropropane	ug/L	50	0	52.3	105		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	54.1	108		75 - 125
2,2-Dichloropropane	ug/L	50	0	50.4	101		70 - 135
2-Butanone	ug/L	50	0	54.1	108		30 - 150
2-Chlorotoluene	ug/L	50	0	54	108		75 - 125
2-Hexanone	ug/L	50	0	57.6	115		55 - 130
4-Chlorotoluene	ug/L	50	0	53.6	107		75 - 130
4-Isopropyltoluene	ug/L	50	0	57	114		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	52.9	106		60 - 135
Acetone	ug/L	50	0	61.5	123		40 - 140
Benzene	ug/L	50	0	55.3	111		80 - 120
Bromobenzene	ug/L	50	0	52.5	105		75 - 125
Bromochloromethane	ug/L	50	0	56.5	113		65 - 130
Bromodichloromethane	ug/L	50	0	57.1	114		75 - 120
Bromoform	ug/L	50	0	56.9	114		70 - 130
Bromomethane	ug/L	50	0	45.4	91		30 - 145
Carbon disulfide	ug/L	50	0	57.7	115		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456078

Carbon tetrachloride	ug/L	50	0	59.1	118		65 - 140
Chlorobenzene	ug/L	50	0	52.8	106		80 - 120
Chloroethane	ug/L	50	0	54.1	108		60 - 135
Chloroform	ug/L	50	0	56.6	113		65 - 135
Chloromethane	ug/L	50	0	47	94		40 - 125
Dibromomethane	ug/L	50	0	55	110		75 - 125
Dichlorodifluoromethane	ug/L	50	0	51.1	102		30 - 155
Ethylbenzene	ug/L	50	0	53.6	107		75 - 125
Hexachlorobutadiene	ug/L	50	0	55	110		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	55.7	111		75 - 125
Methylene chloride	ug/L	50	0	52.4	105		55 - 140
Naphthalene	ug/L	50	0	54.2	108		55 - 140
Styrene	ug/L	50	0	54.4	109		65 - 135
Tetrachloroethene	ug/L	50	0	53.7	107		45 - 150
Toluene	ug/L	50	0	52.4	105		75 - 120
Trichloroethene	ug/L	50	0	55.9	112		70 - 125
Trichlorofluoromethane	ug/L	50	0	55.9	112		60 - 145
Vinyl chloride	ug/L	50	0	55.5	111		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	56.5	113		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	55.4	111		70 - 130
m,p-Xylene	ug/L	100	0	109	109		75 - 130
n-Butylbenzene	ug/L	50	0	57.6	115		70 - 135
n-Propylbenzene	ug/L	50	0	54.8	110		70 - 130
o-Xylene	ug/L	50	0	53.8	108		75 - 130
sec-Butylbenzene	ug/L	50	0	56	112		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	48.6	97		65 - 125
tert-Butylbenzene	ug/L	50	0	54.9	110		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	56.8	114		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	57	114		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456078

SAMPLE NO. : 945970

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108		1		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	55.5	111		2		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	54.4	109		3		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	51.9	104		.8		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	55.1	110		2		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	54.6	109		2		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	55.6	111		2		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	58.3	117		5		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	54.4	109		2		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	58.4	117		4		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	55.2	110		1		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109		6		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	51.5	103		2		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	55.3	111		2		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	54	108		2		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	55.1	110		4		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	54.8	110		.2		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	55.5	111		.9		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	51.6	103		1		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	54.9	110		1		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	49.3	99		2		70 - 135	0 - 30
2-Butanone	ug/L	50	54	108		.2		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	54.5	109		.9		75 - 125	0 - 30
2-Hexanone	ug/L	50	56.2	112		2		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	54.1	108		.9		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	57.3	115		.5		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	54	108		2		60 - 135	0 - 30
Acetone	ug/L	50	60.6	121		1		40 - 140	0 - 30
Benzene	ug/L	50	54	108		2		80 - 120	0 - 30
Bromobenzene	ug/L	50	53.2	106		1		75 - 125	0 - 30
Bromochloromethane	ug/L	50	56.1	112		.7		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	56.8	114		.5		75 - 120	0 - 30
Bromoform	ug/L	50	56.9	114		0		70 - 130	0 - 30
Bromomethane	ug/L	50	51.1	102		12		30 - 145	0 - 30
Carbon disulfide	ug/L	50	56.5	113		2		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Analytical Batch: 456078

Carbon tetrachloride	ug/L	50	58.1	116		2		65 - 140	0 - 30
Chlorobenzene	ug/L	50	51.6	103		2		80 - 120	0 - 30
Chloroethane	ug/L	50	54.9	110		1		60 - 135	0 - 30
Chloroform	ug/L	50	56	112		1		65 - 135	0 - 30
Chloromethane	ug/L	50	49.5	99		5		40 - 125	0 - 30
Dibromomethane	ug/L	50	54.4	109		1		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	50.8	102		.6		30 - 155	0 - 30
Ethylbenzene	ug/L	50	52.5	105		2		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	59.6	119		8		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	53.9	108		3		75 - 125	0 - 30
Methylene chloride	ug/L	50	51.4	103		2		55 - 140	0 - 30
Naphthalene	ug/L	50	57.5	115		6		55 - 140	0 - 30
Styrene	ug/L	50	53.5	107		2		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	52.3	105		3		45 - 150	0 - 30
Toluene	ug/L	50	51	102		3		75 - 120	0 - 30
Trichloroethene	ug/L	50	55	110		2		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	54.5	109		3		60 - 145	0 - 30
Vinyl chloride	ug/L	50	53.7	107		3		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	55.1	110		3		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	55.3	111		.2		70 - 130	0 - 30
m,p-Xylene	ug/L	100	105	105		4		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	58.2	116		1		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	54.9	110		.2		70 - 130	0 - 30
o-Xylene	ug/L	50	52.9	106		2		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	56.1	112		.2		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	49.1	98		1		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	54.8	110		.2		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	54.9	110		3		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	56.3	113		1		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB945623

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110509p/b2570 Lab Sample ID: 945623 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 05/09/11 Time: 2107

Instrument ID: MSV11 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 456001

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS945624	945624	2110509p/b2567	05/09/11	1927
2.	LCSD945625	945625	2110509p/b2568	05/09/11	1956
3.	MA02MW001D	21105060801	2110509p/b2571	05/09/11	2136
4.	M114MW004	21105060802	2110509p/b2572	05/09/11	2205
5.	TB1	21105060803	2110509p/b2573	05/09/11	2227
6.	TB2	21105060804	2110509p/b2574	05/09/11	2249
7.	M114MW002	21105060805	2110509p/b2575	05/09/11	2311
8.	EB1	21105060806	2110509p/b2576	05/09/11	2338
9.	M114MW003	21105060807	2110509p/b2577	05/10/11	0001
10.	TB4	21105060808	2110509p/b2578	05/10/11	0023
11.	TB5	21105060809	2110509p/b2579	05/10/11	0045

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB945919

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110510p/c3260 Lab Sample ID: 945919 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 05/10/11 Time: 1715

Instrument ID: MSV7 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 456069

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS945920	945920	2110510p/c3257	05/10/11	1612
2.	LCSD945921	945921	2110510p/c3258	05/10/11	1633
3.	MA01MW001	21105060810	2110510p/c3262	05/10/11	1758
4.	MA01MW001-MS	21105060811	2110510p/c3263	05/10/11	1819
5.	MA01MW001-MSD	21105060812	2110510p/c3264	05/10/11	1841
6.	TB6	21105060814	2110510p/c3266	05/10/11	1923

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB945968

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110511/b2648 Lab Sample ID: 945968 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 05/11/11 Time: 0841

Instrument ID: MSV11 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 456078

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS945969	945969	2110511/b2645L	05/11/11	0712
2.	LCSD945970	945970	2110511/b2646	05/11/11	0757
3.	M114MW001	21105060815	2110511/b2653	05/11/11	1052
4.	M114MW001-DUP	21105060816	2110511/b2654	05/11/11	1115
5.	TB8	21105060817	2110511/b2655	05/11/11	1137
6.	MAOMW004	21105060818	2110511/b2656	05/11/11	1206
7.	MAOMW003	21105060819	2110511/b2657	05/11/11	1228
8.	TB7	21105060820	2110511/b2658	05/11/11	1250

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110510/c3245d BFB Injection Date: 05/10/11

Instrument ID: MSV7 BFB Injection Time: 1058

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 456073

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	16.34	(	)	
75	30.0 - 60.0% of mass 95	46	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.34	(	)	
173	Less than 2.0% of mass 174	.76	(.87	)	1
174	50.0 - 120.0% of mass 95	87.53	(	)	
175	5.0 - 9.0% of mass 174	6.61	(7.56	)	1
176	95.0 - 101.0% of mass 174	85.33	(97.49	)	1
177	5.0 - 9.0% of mass 176	5.58	(6.55	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V7STD0.2	1201	2110510/c3246d	05/10/11	1137
2.	V7STD001	1203	2110510/c3247d	05/10/11	1158
3.	V7STD005	1204	2110510/c3248d	05/10/11	1219
4.	V7STD010	1205	2110510/c3249d	05/10/11	1240
5.	V7STD020	1206	2110510/c3250d	05/10/11	1301
6.	V7STD050	1207	2110510/c3251d	05/10/11	1324
7.	V7STD100	1208	2110510/c3252d	05/10/11	1346
8.	V7STD200	1209	2110510/c3253d	05/10/11	1407
9.	ICV050	1600	2110510/c3255d	05/10/11	1502

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110510p/c3256 BFB Injection Date: 05/10/11

Instrument ID: MSV7 BFB Injection Time: 1523

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 456069

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	16.04	(	)	
75	30.0 - 60.0% of mass 95	45.68	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.46	(	)	
173	Less than 2.0% of mass 174	.97	(1.14	)	1
174	50.0 - 120.0% of mass 95	85.59	(	)	
175	5.0 - 9.0% of mass 174	6.48	(7.58	)	1
176	95.0 - 101.0% of mass 174	82.92	(96.89	)	1
177	5.0 - 9.0% of mass 176	5.53	(6.67	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V7STD050	1400	2110510p/c3257	05/10/11	1612
2.	LCS945920	945920	2110510p/c3257	05/10/11	1612
3.	LCSD945921	945921	2110510p/c3258	05/10/11	1633
4.	MB945919	945919	2110510p/c3260	05/10/11	1715
5.	MA01MW001	21105060810	2110510p/c3262	05/10/11	1758
6.	MA01MW001-MS	21105060811	2110510p/c3263	05/10/11	1819
7.	MA01MW001-MSD	21105060812	2110510p/c3264	05/10/11	1841
8.	TB6	21105060814	2110510p/c3266	05/10/11	1923

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110501p/b2228 BFB Injection Date: 05/01/11

Instrument ID: MSV11 BFB Injection Time: 1046

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 455427

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
50	15.0 - 40.0% of mass 95	22.34 ( )
75	30.0 - 60.0% of mass 95	51.96 ( )
95	Base Peak, 100% relative abundance	100 ( )
96	5.0 -9.0% of mass 95	6.67 ( )
173	Less than 2.0% of mass 174	.91 (1.1) 1
174	50.0 - 120.0% of mass 95	83.36 ( )
175	5.0 - 9.0% of mass 174	6 (7.2) 1
176	95.0 - 101.0% of mass 174	80.25 (96.28) 1
177	5.0 - 9.0% of mass 176	4.86 (6.06) 2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	STD001	1208	2110501p/b2230	05/01/11	1155
2.	STD005	1201	2110501p/b2231	05/01/11	1217
3.	STD010	1206	2110501p/b2232	05/01/11	1239
4.	STD020	1202	2110501p/b2233	05/01/11	1301
5.	STD050	1203	2110501p/b2234	05/01/11	1323
6.	STD100	1204	2110501p/b2235	05/01/11	1351
7.	STD200	1205	2110501p/b2236	05/01/11	1413
8.	8260ICV	1600	2110501p/b2238	05/01/11	1505

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5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110509p/b2566 BFB Injection Date: 05/09/11

Instrument ID: MSV11 BFB Injection Time: 1841

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 456001

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	22.91	(	)	
75	30.0 - 60.0% of mass 95	55.28	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.59	(	)	
173	Less than 2.0% of mass 174	1.04	(1.24	)	1
174	50.0 - 120.0% of mass 95	84.23	(	)	
175	5.0 - 9.0% of mass 174	6.37	(7.57	)	1
176	95.0 - 101.0% of mass 174	80.95	(96.11	)	1
177	5.0 - 9.0% of mass 176	5.41	(6.69	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V11STD050	1400	2110509p/b2567	05/09/11	1927
2.	LCS945624	945624	2110509p/b2567	05/09/11	1927
3.	LCSD945625	945625	2110509p/b2568	05/09/11	1956
4.	MB945623	945623	2110509p/b2570	05/09/11	2107
5.	MA02MW001D	21105060801	2110509p/b2571	05/09/11	2136
6.	M114MW004	21105060802	2110509p/b2572	05/09/11	2205
7.	TB1	21105060803	2110509p/b2573	05/09/11	2227
8.	TB2	21105060804	2110509p/b2574	05/09/11	2249
9.	M114MW002	21105060805	2110509p/b2575	05/09/11	2311
10.	EB1	21105060806	2110509p/b2576	05/09/11	2338
11.	M114MW003	21105060807	2110509p/b2577	05/10/11	0001
12.	TB4	21105060808	2110509p/b2578	05/10/11	0023
13.	TB5	21105060809	2110509p/b2579	05/10/11	0045

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID: 2110511/b2644 BFB Injection Date: 05/11/11

Instrument ID: MSV11 BFB Injection Time: 0631

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 456078

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	23.51	(	)	
75	30.0 - 60.0% of mass 95	53.3	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.59	(	)	
173	Less than 2.0% of mass 174	1.12	(1.36	)	1
174	50.0 - 120.0% of mass 95	82.81	(	)	
175	5.0 - 9.0% of mass 174	6.34	(7.66	)	1
176	95.0 - 101.0% of mass 174	80.2	(96.86	)	1
177	5.0 - 9.0% of mass 176	5.46	(6.81	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	STD050	1400	2110511/b2645	05/11/11	0712
2.	LCS945969	945969	2110511/b2645L	05/11/11	0712
3.	LCSD945970	945970	2110511/b2646	05/11/11	0757
4.	MB945968	945968	2110511/b2648	05/11/11	0841
5.	M114MW001	21105060815	2110511/b2653	05/11/11	1052
6.	M114MW001-DUP	21105060816	2110511/b2654	05/11/11	1115
7.	TB8	21105060817	2110511/b2655	05/11/11	1137
8.	MAOMW004	21105060818	2110511/b2656	05/11/11	1206
9.	MAOMW003	21105060819	2110511/b2657	05/11/11	1228
10.	TB7	21105060820	2110511/b2658	05/11/11	1250

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Calibration File Names:
Level 1: /var/chem/msv7.i/2110510.s.b/c3246d.d
Level 3: /var/chem/msv7.i/2110510.s.b/c3247d.d
Level 4: /var/chem/msv7.i/2110510.s.b/c3248d.d
Level 5: /var/chem/msv7.i/2110510.s.b/c3249d.d
Level 6: /var/chem/msv7.i/2110510.s.b/c3250d.d
Level 7: /var/chem/msv7.i/2110510.s.b/c3251d.d
Level 8: /var/chem/msv7.i/2110510.s.b/c3252d.d
Level 9: /var/chem/msv7.i/2110510.s.b/c3253d.d

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 8	200 Level 9									
1 Dichlorodifluoromethane	+++++	0.28489	0.31151	0.29866	0.30887	0.31135					
	0.29544	0.30236					AVRG		0.30187		3.23406
2 Chloromethane ++	0.25646	0.21562	0.22623	0.20940	0.21120	0.21912					
	0.21487	0.24432					AVRG		0.22465		7.56614
3 Vinyl Chloride +	0.30179	0.30431	0.28821	0.27191	0.28394	0.27940					
	0.27300	0.27750					AVRG		0.28501		4.33608

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
5 1-3 Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
6 Bromomethane	+++++	2995	12724	26285	57071	184353						
	414538	1004990					LINR	0.10901	0.15198		0.99512	
4 2-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
7 Chloroethane	+++++	6879	27135	52839	105502	255059						
	501368	1011511					LINR	-0.05406	0.15155		0.99926	
8 Trichlorofluoromethane	+++++	0.49168	0.49111	0.46675	0.46033	0.45882						
	0.44365	0.44068					AVRG		0.46472		4.39530	
163 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
9 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
10 1,1-Dichloroethene +	0.31749	0.24751	0.26567	0.26794	0.27094	0.26361						
	0.26062	0.27149					AVRG		0.27066		7.53682	
12 1,1,2Trichlotrifluoroethane	+++++	0.30973	0.28259	0.27995	0.27942	0.28263						
	0.27972	0.28972					AVRG		0.28625		3.82432	
11 Carbon Disulfide	+++++	0.82567	0.72165	0.73212	0.73806	0.77514						
	0.78874	0.83272					AVRG		0.77344		5.81105	
13 Methyl Iodide	+++++	2866	16687	38927	102988	331223						
	832796	1931873					LINR	0.12485	0.29501		0.99615	
14 Acrolein	+++++	0.01737	0.01521	0.01563	0.01648	0.01630						
	0.01573	0.01878					AVRG		0.01650		7.42019	
15 Allyl chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
16 Methylene Chloride	+++++	0.41323	0.35774	0.34653	0.32935	0.33019						
	0.32330	0.32806					AVRG		0.34691		9.12813	

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Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
17 Acetone	+++++	7789	22761	38508	73145	188768						
	361523	818655					LINR	-0.00858	0.12139		0.99835	
18 trans-1,2-Dichloroethene	+++++	0.35430	0.33845	0.33865	0.34853	0.35225						
	0.35881	0.37031					AVRG		0.35162		3.20059	
19 Methyl Acetate	+++++	0.21497	0.18219	0.17081	0.19112	0.19466						
	0.20447	0.21855					AVRG		0.19668		8.77607	
20 Hexane	+++++	0.33609	0.39099	0.42213	0.45124	0.49644						
	0.50016	0.51805					AVRG		0.44501		14.89567	
21 MTBE	+++++	11062	60958	132244	301832	813495						
	1866527	4277550					LINR	0.07641	0.64605		0.99771	
22 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
23 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
24 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
25 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
26 1,1-Dichloroethane ++	+++++	0.45306	0.44998	0.43892	0.45261	0.45779						
	0.46327	0.48251					AVRG		0.45688		2.96550	
27 Acrylonitrile	+++++	0.06868	0.08241	0.08480	0.09429	0.09502						
	0.10099	0.10647					AVRG		0.09038		14.09526	
28 Vinyl Acetate	+++++	3689	20854	49014	120941	412114						
	994683	2320428					LINR	0.12094	0.35385		0.99642	
29 cis-1,2-Dichloroethene	+++++	0.30771	0.30112	0.32233	0.33528	0.34696						
	0.35595	0.36825					AVRG		0.33394		7.46898	
30 2,2-Dichloropropane	+++++	3941	22129	52029	124465	380421						
	893093	2057418					LINR	0.09990	0.31254		0.99735	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
34 Bromochloromethane	+++++	0.13026	0.13839	0.14203	0.14678	0.14773						
	0.15247	0.14683					AVRG		0.14350		5.11812	
32 Cyclohexane	+++++	7477	49412	113909	258970	705332						
	1466410	3185980					LINR	0.03095	0.48082		0.99977	
35 Chloroform +	+++++	0.45172	0.47546	0.49600	0.50062	0.50565						
	0.50795	0.52708					AVRG		0.49493		4.94808	
37 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
164 Ethyl Tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
42 sec-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
36 Carbon Tetrachloride	+++++	0.34197	0.31625	0.32104	0.34026	0.34930						
	0.35716	0.38070					AVRG		0.34381		6.35348	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
38 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
41 1,1,1-Trichloroethane	0.40655	0.40344	0.38990	0.39298	0.39332	0.41409						
	0.42028	0.44389					AVRG		0.40806		4.41048	
44 2-Butanone	+++++	0.12728	0.11560	0.11468	0.12935	0.13555						
	0.14315	0.15350					AVRG		0.13130		10.74519	
166 tert-amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
43 1,1-Dichloropropene	+++++	0.27431	0.29231	0.31521	0.34401	0.37290						
	0.37834	0.39531					AVRG		0.33891		13.64066	
45 2,2,4 Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
31 Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	100 Level 8	200 Level 9										
46 Benzene	11100	30551	153590	319502	655403	1756826						
	3729149	8274666					LINR	0.02777	1.24069		0.99922	
47 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
48 Methylacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
167 Tert-amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
52 Isobutyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
51 1,2-Dichloroethane	+++++	0.35750	0.35988	0.35049	0.35808	0.35556						
	0.35303	0.36293					AVRG		0.35678		1.17179	
55 Methyl Cyclohexane	+++++	0.35306	0.39551	0.40321	0.43871	0.47358						
	0.47654	0.50401					AVRG		0.43495		12.33613	

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Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
165 Tert-butyl formate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
56 Trichloroethene	+++++	0.32056	0.30119	0.30548	0.31180	0.31409						
	0.31972	0.33775					AVRG		0.31580		3.78742	
49 1,4-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
33 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
57 Dibromomethane	+++++	0.14349	0.15539	0.15299	0.15765	0.16171						
	0.16628	0.17522					AVRG		0.15896		6.36802	
58 2-3 Dichloro-1-Proprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
59 1,2-Dichloropropane +	+++++	0.21802	0.23612	0.24423	0.25603	0.26371						
	0.26984	0.28018					AVRG		0.25259		8.44525	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
60 Bromodichloromethane	+++++	0.28321	0.31104	0.32045	0.33094	0.35176						
	0.36765	0.38920					AVRG		0.33632		10.69095	
61 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
62 1,4- Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
65 1-Bromo-2-chloroethane	+++++	0.03745	0.03871	0.03975	0.04364	0.04301						
	0.04582	0.04905					AVRG		0.04249		9.74252	
64 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	
67 cis-1,3-Dichloropropene	+++++	6988	38569	84844	200241	591722						
	1355188	3071469					LINR	0.08306	0.46577		0.99820	
69 Toluene +	+++++	3.72963	3.39395	3.25899	3.29627	3.28526						
	3.24481	3.43111					AVRG		3.37715		5.04106	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
81 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
63 Methyldisulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
73 4-methyl-2-pentanone	+++++	3795	19273	44657	114798	350254						
	798308	1860048					LINR	0.09965	0.28221		0.99725	
71 Tetrachloroethene	+++++	0.62826	0.61385	0.64156	0.64778	0.65150						
	0.64500	0.68494					AVRG		0.64470		3.41381	
74 trans-1,3-Dichloropropene	+++++	4687	30574	73076	171031	518836						
	1202475	2776066					LINR	0.09674	0.42127		0.99743	
77 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
76 1,1,2-Trichloroethane	+++++	0.57202	0.66080	0.63796	0.66960	0.65739						
	0.65588	0.68748					AVRG		0.64873		5.70184	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
78 Dibromochloromethane	+++++	0.57721	0.60367	0.58891	0.64294	0.68323						
	0.71518	0.78217					AVRG		0.65619		11.43451	
79 1,3-Dichloropropane	+++++	0.98172	1.00695	1.01302	1.09478	1.11738						
	1.12082	1.17327					AVRG		1.07256		6.70986	
70 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
80 1,2-Dibromoethane(EDB)	+++++	0.54410	0.57841	0.58513	0.61778	0.63418						
	0.64861	0.69763					AVRG		0.61512		8.28688	
168 3,3 Dimethyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
83 2-Hexanone	+++++	2586	11835	29302	76671	253130						
	614567	1428326					LINR	0.11129	0.54764		0.99690	
75 Total 1,2-Dichloroethene	+++++	0.33100	0.31979	0.33049	0.34190	0.34961						
	0.35738	0.36928					AVRG		0.34278		5.02648	

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	100 Level 8	200 Level 9										
86 1-Chlorohexane	+++++	8175	35365	78912	174568	519328						
	1131326	2493977					LINR	0.05693	0.37763		0.99931	
85 Chlorobenzene ++	+++++	2.53006	2.25512	2.14173	2.14944	2.12434						
	2.09125	2.19109					AVRG		2.21186		6.77099	
39 1,3-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
87 Ethylbenzene +	+++++	0.97571	1.06084	1.05491	1.09931	1.13699						
	1.13126	1.18638					AVRG		1.09220		6.29878	
88 1,1,1,2-Tetrachloroethane	+++++	0.56764	0.68078	0.61771	0.65796	0.66541						
	0.67606	0.72157					AVRG		0.65530		7.54798	
82 1-3 Dichloropropene total	+++++	11675	69143	157920	371272	1110558						
	2557663	5847535					LINR	0.17907	0.44351		0.99785	
89 p,m-Xylene	+++++	14595	109925	260777	589664	1641301						
	3567841	7988227					LINR	0.09305	1.51574		0.99911	

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Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
90 o-Xylene	+++++	6035	39095	97910	243593	748070						
	1667336	3720743					LINR	0.06797	1.42114		0.99912	
91 Styrene	+++++	8955	74910	196019	462328	1339857						
	2949775	6672337					LINR	0.06277	2.53902		0.99883	
92 Bromoform ++	+++++	3358	20152	41771	98992	283060						
	658868	1541991					LINR	0.08497	0.58629		0.99692	
93 Isopropylbenzene	+++++	13864	108823	271725	658699	1983625						
	4392642	9944853					LINR	0.06925	3.79045		0.99876	
94 2-methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
96 Bromobenzene	+++++	1.15159	1.12937	1.17031	1.17662	1.20173						
	1.21649	1.23038					AVRG		1.18236		3.04533	
54 1,2-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
97 n-Propylbenzene	+++++	26405	165184	381292	830233	2370310						
	5133939	11638240					LINR	0.03847	3.91465		0.99967	
98 1,1,2,2-Tetrachloroethane++	+++++	0.80793	0.78376	0.76734	0.80185	0.78953						
	0.81238	0.83230					AVRG		0.79930		2.65362	
99 2-Chlorotoluene	+++++	1.43631	1.70595	1.88959	2.03198	2.12502						
	2.16832	2.25156					AVRG		1.94410		14.89024	
100 1,2,3-Trichloropropane	+++++	0.67701	0.63928	0.59480	0.68594	0.65638						
	0.67568	0.69520					AVRG		0.66061		5.22116	
102 1,3,5-Trimethylbenzene	+++++	13607	107971	262249	591591	1683133						
	3677937	8399896					LINR	0.04689	2.82798		0.99954	
66 3-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
103 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 8	200 Level 9									
101 trans-1,4-Dichloro-2-Butene	+++++	+++++	0.05459	0.06065	0.06659	0.06950					
	0.06214	0.06188					AVRG		0.06256		8.22032
104 4-Chlorotoluene	+++++	14853	104916	235747	528903	1466946					
	3201209	7293251					LINR	0.04037	2.45168		0.99956
105 tert-butylbenzene	+++++	7264	54379	132333	302748	872105					
	1911379	4298223					LINR	0.04349	1.44994		0.99977
110 p-Isopropyltoluene	+++++	11774	101060	254069	582978	1755509					
	3891652	8952335					LINR	0.06166	3.02203		0.99932
106 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00 <-
107 1,2,4-Trimethylbenzene	+++++	12159	110196	267827	603355	1698657					
	3720316	8517409					LINR	0.04742	2.86647		0.99948
108 sec-Butylbenzene	+++++	16139	143640	335219	737834	2120574					
	4638472	10625544					LINR	0.04790	3.57596		0.99946

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	100 Level 8	200 Level 9										
109 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
113 1,3-Dichlorobenzene	+++++	1.30510	1.54859	1.56477	1.58384	1.60044						
	1.63644	1.69455					AVRG		1.56196		7.89528	
115 1,4-Dichlorobenzene	+++++	1.81689	1.68172	1.69665	1.65952	1.67473						
	1.71096	1.78545					AVRG		1.71799		3.47979	
117 n-Butylbenzene	+++++	13893	90414	226621	523775	1570108						
	3469049	7861195					LINR	0.05406	2.65562		0.99960	
72 2-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
118 1,2-Dichlorobenzene	+++++	1.38804	1.37841	1.42747	1.50855	1.50442						
	1.56364	1.64962					AVRG		1.48859		6.61611	
112 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1 / 100 Level 8	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
119 1,2-Dibromo-3-Chloropropane	+++++	1283	6251	14520	31577	95548						
	231864	559440					LINR	0.09822	0.18890		0.99663	
111 1-4 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
M 121 TOTAL XYLENE	+++++	20630	149020	358687	833257	2389371						
	5235177	11708970					LINR	0.12350	1.31718		0.99983	
116 1-2 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
123 Benzal Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
120 Hexachlorobutadiene	+++++	0.38171	0.34596	0.35981	0.36579	0.38595						
	0.40725	0.43143					AVRG		0.38256		7.65764	
122 1,2,4-Trichlorobenzene	+++++	6495	39234	84471	201431	606016						
	1403827	3343765					LINR	0.08493	1.12814		0.99783	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAY-2011 11:37
End Cal Date : 10-MAY-2011 14:07
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Cal Date : 11-May-2011 11:56 jck2

Compound	0.2000 Level 1 / 100 Level 8	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
124 Naphthalene	+++++	10812	72201	189317	522296	1629065						
	3857200	9482493					LINR	0.11345	3.20927		0.99643	
M 126 Total Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+00		0.000e+00	<-
125 1,2,3-Trichlorobenzene	+++++	6493	40022	86341	195314	554112						
	1247838	2909712					LINR	0.06046	0.97879		0.99877	
40 Dibromofluoromethane	0.23383	0.23869	0.23925	0.23819	0.23775	0.24311						
	0.24058	0.24807					AVRG		0.23993		1.75322	
50 1,2-Dichloroethane-d4	0.13983	0.14420	0.14097	0.14161	0.14361	0.13989						
	0.13998	0.13872					AVRG		0.14110		1.37074	
68 Toluene-d8	2.60124	2.57761	2.50442	2.41933	2.40710	2.36951						
	2.29090	2.32092					AVRG		2.43638		4.70200	
95 Bromofluorobenzene	0.75313	0.77332	0.80454	0.79779	0.79360	0.78927						
	0.76880	0.78403					AVRG		0.78306		2.17078	

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: 8260b.sub
Client SDG: 2110510.s
Fraction: VOA
Client Smp ID: ICV050
Operator: CLH
SampleType: LCS
Quant Type: ISTD
Method File: /var/chem/msv7.i/2110510.s.b/8260DODw7.m
Misc Info: MSV~21728~*1*CLH

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
1	Dichlorodifluoromethane	50.0	41.7	83.32	80-120	
2	Chloromethane ++	50.0	42.5	85.04	80-120	
3	Vinyl Chloride +	50.0	47.5	95.09	80-120	
6	Bromomethane	50.0	44.3	88.50	80-120	
7	Chloroethane	50.0	46.9	93.85	80-120	
8	Trichlorofluoromethane	50.0	49.7	99.30	80-120	
10	1,1-Dichloroethene +	50.0	49.4	98.79	80-120	
11	Carbon Disulfide	50.0	52.8	105.64	80-120	
12	1,1,2Trichlotrifluoroethane	50.0	50.9	101.85	80-120	
13	Methyl Iodide	50.0	46.2	92.44	80-120	
14	Acrolein	250	425	170.01*	80-120	NT
16	Methylene Chloride	50.0	47.4	94.82	80-120	
17	Acetone	50.0	57.0	114.09	80-120	
18	trans-1,2-Dichloroethene	50.0	51.9	103.74	80-120	
19	Methyl Acetate	50.0	46.8	93.57	80-120	
20	Hexane	50.0	59.1	118.13	80-120	
21	MTBE	50.0	47.2	94.35	80-120	
26	1,1-Dichloroethane ++	50.0	51.6	103.26	80-120	
27	Acrylonitrile	250	289	115.73	80-120	
28	Vinyl Acetate	50.0	51.3	102.67	80-120	
29	cis-1,2-Dichloroethene	50.0	53.5	106.91	80-120	
30	2,2-Dichloropropane	50.0	44.7	89.46	80-120	
32	Cyclohexane	50.0	50.8	101.69	80-120	
34	Bromochloromethane	50.0	52.3	104.51	80-120	
35	Chloroform +	50.0	52.3	104.61	80-120	
36	Carbon Tetrachloride	50.0	52.6	105.11	80-120	
41	1,1,1-Trichloroethane	50.0	51.3	102.64	80-120	
43	1,1-Dichloropropene	50.0	56.7	113.47	80-120	
44	2-Butanone	50.0	58.3	116.55	80-120	
46	Benzene	50.0	48.7	97.42	80-120	
51	1,2-Dichloroethane	50.0	49.8	99.56	80-120	
55	Methyl Cyclohexane	50.0	56.2	112.50	80-120	
56	Trichloroethene	50.0	50.8	101.56	80-120	

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
57 Dibromomethane	50.0	52.2	104.36	80-120
59 1,2-Dichloropropane +	50.0	53.6	107.25	80-120
60 Bromodichloromethane	50.0	52.0	103.95	80-120
64 2-Chloroethyl vinyl ether	50.0	0.00	NT 0.00*	80-120
67 cis-1,3-Dichloropropene	50.0	47.2	94.35	80-120
69 Toluene +	50.0	49.6	99.14	80-120
71 Tetrachloroethene	50.0	51.9	103.84	80-120
73 4-methyl-2-pentanone	50.0	46.8	93.56	80-120
74 trans-1,3-Dichloropropene	50.0	46.7	93.30	80-120
76 1,1,2-Trichloroethane	50.0	50.9	101.74	80-120
78 Dibromochloromethane	50.0	51.3	102.63	80-120
79 1,3-Dichloropropane	50.0	53.4	106.76	80-120
80 1,2-Dibromoethane(EDB)	50.0	52.5	104.91	80-120
83 2-Hexanone	50.0	50.3	100.67	80-120
85 Chlorobenzene ++	50.0	48.6	97.17	80-120
86 1-Chlorohexane	50.0	50.9	101.83	80-120
87 Ethylbenzene +	50.0	52.7	105.42	80-120
88 1,1,1,2-Tetrachloroethane	50.0	50.5	101.10	80-120
89 p,m-Xylene	100	97.8	97.80	80-120
90 o-Xylene	50.0	49.6	99.30	80-120
91 Styrene	50.0	48.2	96.38	80-120
92 Bromoform ++	50.0	45.9	91.86	80-120
93 Isopropylbenzene	50.0	49.3	98.69	80-120
96 Bromobenzene	50.0	52.4	104.86	80-120
97 n-Propylbenzene	50.0	51.9	103.89	80-120
98 1,1,2,2-Tetrachloroethane++	50.0	51.5	102.94	80-120
99 2-Chlorotoluene	50.0	57.2	114.35	80-120
100 1,2,3-Trichloropropane	50.0	52.6	105.29	80-120
102 1,3,5-Trimethylbenzene	50.0	50.8	101.68	80-120
101 trans-1,4-Dichloro-2-Butene	50.0	56.7	113.45	80-120
104 4-Chlorotoluene	50.0	50.1	100.21	80-120
105 tert-butylbenzene	50.0	51.5	103.07	80-120
107 1,2,4-Trimethylbenzene	50.0	51.4	102.79	80-120
108 sec-Butylbenzene	50.0	51.4	102.74	80-120
110 p-Isopropyltoluene	50.0	53.0	106.08	80-120
113 1,3-Dichlorobenzene	50.0	53.8	107.60	80-120
115 1,4-Dichlorobenzene	50.0	51.6	103.24	80-120
117 n-Butylbenzene	50.0	52.7	105.48	80-120
118 1,2-Dichlorobenzene	50.0	53.0	106.00	80-120
119 1,2-Dibromo-3-Chloropropane	50.0	48.3	96.64	80-120
120 Hexachlorobutadiene	50.0	57.7	115.48	80-120
122 1,2,4-Trichlorobenzene	50.0	52.2	104.47	80-120
124 Naphthalene	50.0	48.6	97.17	80-120
125 1,2,3-Trichlorobenzene	50.0	51.4	102.87	80-120

Data File: /var/chem/msv7.i/2110510p.s.b/c3257.d
Report Date: 10-May-2011 17:31

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i
Lab File ID: c3257.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv7.i/2110510p.s.b/8260DODw7.m

Injection Date: 10-MAY-2011 16:12
Init. Cal. Date(s): 10-MAY-2011 10-MAY-2011
Init. Cal. Times: 11:37 14:07
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.30187	0.32548	0.32548	0.010	7.82326	20.00000	Averaged	
2 Chloromethane ++	0.22465	0.24296	0.24296	0.100	8.14867	20.00000	Averaged	
3 Vinyl Chloride +	0.28501	0.29499	0.29499	0.010	3.50122	20.00000	Averaged	
6 Bromomethane	46.72780	50.00000	0.12546	0.010	-6.54441	20.00000	Linear	
7 Chloroethane	53.83620	50.00000	0.17137	0.010	7.67239	20.00000	Linear	
8 Trichlorofluoromethane	0.46472	0.46245	0.46245	0.010	-0.48739	20.00000	Averaged	
10 1,1-Dichloroethene +	0.27066	0.27863	0.27863	0.010	2.94415	20.00000	Averaged	
12 1,1,2Trichlotrifluoroethane	0.28625	0.29645	0.29645	0.010	3.56379	20.00000	Averaged	
11 Carbon Disulfide	0.77344	0.84661	0.84661	0.010	9.45949	20.00000	Averaged	
13 Methyl Iodide	53.68247	50.00000	0.27990	0.010	7.36495	20.00000	Linear	
14 Acrolein	0.01650	0.02433	0.02433	0.010	47.43265	20.00000	Averaged	<- NT
16 Methylene Chloride	0.34691	0.34105	0.34105	0.010	-1.69079	20.00000	Averaged	
17 Acetone	54.76215	50.00000	0.13399	0.010	9.52430	20.00000	Linear	
18 trans-1,2-Dichloroethene	0.35162	0.37867	0.37867	0.010	7.69294	20.00000	Averaged	
19 Methyl Acetate	0.19668	0.20542	0.20542	0.010	4.44504	20.00000	Averaged	
20 Hexane	0.44501	0.52730	0.52730	0.010	18.48980	20.00000	Averaged	
21 MTBE	46.55045	50.00000	0.55211	0.010	-6.89909	20.00000	Linear	
26 1,1-Dichloroethane ++	0.45688	0.47206	0.47206	0.100	3.32400	20.00000	Averaged	
27 Acrylonitrile	0.09038	0.10109	0.10109	0.010	11.84351	20.00000	Averaged	
28 Vinyl Acetate	43.26451	50.00000	0.26339	0.010	-13.47099	20.00000	Linear	
29 cis-1,2-Dichloroethene	0.33394	0.36668	0.36668	0.010	9.80152	20.00000	Averaged	
30 2,2-Dichloropropane	44.09459	50.00000	0.24441	0.010	-11.81082	20.00000	Linear	
34 Bromochloromethane	0.14350	0.15242	0.15242	0.010	6.21966	20.00000	Averaged	
32 Cyclohexane	52.52052	50.00000	0.49018	0.010	5.04104	20.00000	Linear	
35 Chloroform +	0.49493	0.51008	0.51008	0.010	3.06224	20.00000	Averaged	
36 Carbon Tetrachloride	0.34381	0.36818	0.36818	0.010	7.08691	20.00000	Averaged	
$ 40 Dibromofluoromethane	0.23993	0.24202	0.24202	0.010	0.86824	20.00000	Averaged	
41 1,1,1-Trichloroethane	0.40806	0.42498	0.42498	0.010	4.14827	20.00000	Averaged	
44 2-Butanone	0.13130	0.14906	0.14906	0.010	13.52356	20.00000	Averaged	
43 1,1-Dichloropropene	0.33891	0.38708	0.38708	0.010	14.21330	20.00000	Averaged	
46 Benzene	50.01063	50.00000	1.20650	0.010	0.02125	20.00000	Linear	
$ 50 1,2-Dichloroethane-d4	0.14110	0.14064	0.14064	0.010	-0.32730	20.00000	Averaged	
51 1,2-Dichloroethane	0.35678	0.35816	0.35816	0.010	0.38819	20.00000	Averaged	
55 Methyl Cyclohexane	0.43495	0.50837	0.50837	0.010	16.88199	20.00000	Averaged	
56 Trichloroethene	0.31580	0.32532	0.32532	0.010	3.01634	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i
Lab File ID: c3257.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv7.i/2110510p.s.b/8260DODw7.m

Injection Date: 10-MAY-2011 16:12
Init. Cal. Date(s): 10-MAY-2011 10-MAY-2011
Init. Cal. Times: 11:37 14:07
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
57 Dibromomethane	0.15896	0.16721	0.16721	0.010	5.19011	20.00000	Averaged	
59 1,2-Dichloropropane +	0.25259	0.27197	0.27197	0.010	7.67017	20.00000	Averaged	
60 Bromodichloromethane	0.33632	0.36098	0.36098	0.010	7.33316	20.00000	Averaged	
65 1-Bromo-2-chloroethane	0.04249	0.04542	0.04542	0.010	6.89242	20.00000	Averaged	
64 2-Chloroethyl vinyl ether	++++	0.37526	0.37526	0.010	++++	20.00000	Averaged	<-
67 cis-1,3-Dichloropropene	47.62609	50.00000	0.40497	0.010	-4.74782	20.00000	Linear	
$ 68 Toluene-d8	2.43638	2.39154	2.39154	0.010	-1.84042	20.00000	Averaged	
69 Toluene +	3.37715	3.43207	3.43207	0.010	1.62640	20.00000	Averaged	
73 4-methyl-2 pentanone	48.78931	50.00000	0.24725	0.010	-2.42138	20.00000	Linear	
71 Tetrachloroethene	0.64470	0.69488	0.69488	0.010	7.78434	20.00000	Averaged	
74 trans-1,3-Dichloropropene	46.73035	50.00000	0.35297	0.010	-6.53929	20.00000	Linear	
76 1,1,2-Trichloroethane	0.64873	0.68323	0.68323	0.010	5.31822	20.00000	Averaged	
78 Dibromochloromethane	0.65619	0.72109	0.72109	0.010	9.89006	20.00000	Averaged	
79 1,3-Dichloropropane	1.07256	1.16110	1.16110	0.010	8.25437	20.00000	Averaged	
80 1,2-Dibromoethane(EDB)	0.61512	0.66668	0.66668	0.010	8.38245	20.00000	Averaged	
83 2-Hexanone	50.11663	50.00000	0.48797	0.010	0.23326	20.00000	Linear	
M 75 Total 1,2-Dichloroethene	0.34278	0.37267	0.37267	0.010	8.72005	20.00000	Averaged	
86 1-Chlorohexane	51.88690	50.00000	0.37038	0.010	3.77380	20.00000	Linear	
85 Chlorobenzene ++	2.21186	2.19216	2.19216	0.300	-0.89053	20.00000	Averaged	
87 Ethylbenzene +	1.09220	1.17956	1.17956	0.010	7.99851	20.00000	Averaged	
88 1,1,1,2-Tetrachloroethane	0.65530	0.69371	0.69371	0.010	5.86035	20.00000	Averaged	
M 82 1-3 Dichloropropene total	94.35645	100	0.37897	0.010	-5.64355	20.00000	Linear	
89 p,m-Xylene	101	100	1.45487	0.010	0.63670	20.00000	Linear	
90 o-Xylene	50.74544	50.00000	1.34573	0.010	1.49088	20.00000	Linear	
91 Styrene	49.50645	50.00000	2.35460	0.010	-0.98709	20.00000	Linear	
92 Bromoform ++	47.58188	50.00000	0.50812	0.100	-4.83625	20.00000	Linear	
93 Isopropylbenzene	50.40190	50.00000	3.55841	0.010	0.80379	20.00000	Linear	
$ 95 Bromofluorobenzene	0.78306	0.78311	0.78311	0.010	0.00636	20.00000	Averaged	
96 Bromobenzene	1.18236	1.25530	1.25530	0.010	6.16916	20.00000	Averaged	
97 n-Propylbenzene	51.33609	50.00000	3.86868	0.010	2.67219	20.00000	Linear	
98 1,1,2,2-Tetrachloroethane++	0.79930	0.83833	0.83833	0.300	4.88328	20.00000	Averaged	
99 2-Chlorotoluene	1.94410	2.22213	2.22213	0.010	14.30111	20.00000	Averaged	
100 1,2,3-Trichloropropane	0.66061	0.70227	0.70227	0.010	6.30635	20.00000	Averaged	
102 1,3,5-Trimethylbenzene	50.73526	50.00000	2.73695	0.010	1.47053	20.00000	Linear	
101 trans-1,4-Dichloro-2-Butene	0.06256	0.06865	0.06865	0.010	9.74347	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i
Lab File ID: c3257.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv7.i/2110510p.s.b/8260DODw7.m

Injection Date: 10-MAY-2011 16:12
Init. Cal. Date(s): 10-MAY-2011 10-MAY-2011
Init. Cal. Times: 11:37 14:07
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
104 4-Chlorotoluene	50.25878	50.00000	2.36538	0.010	0.51755	20.00000	Linear
105 tert-butylbenzene	51.84354	50.00000	1.44034	0.010	3.68709	20.00000	Linear
110 p-Isopropyltoluene	51.15309	50.00000	2.90539	0.010	2.30617	20.00000	Linear
107 1,2,4-Trimethylbenzene	50.48925	50.00000	2.75859	0.010	0.97850	20.00000	Linear
108 sec-Butylbenzene	51.62224	50.00000	3.52069	0.010	3.24447	20.00000	Linear
113 1,3-Dichlorobenzene	1.56196	1.66987	1.66987	0.010	6.90823	20.00000	Averaged
115 1,4-Dichlorobenzene	1.71799	1.75091	1.75091	0.010	1.91634	20.00000	Averaged
117 n-Butylbenzene	52.24749	50.00000	2.63143	0.010	4.49497	20.00000	Linear
118 1,2-Dichlorobenzene	1.48859	1.59074	1.59074	0.010	6.86222	20.00000	Averaged
119 1,2-Dibromo-3-Chloropropane	47.87159	50.00000	0.16230	0.010	-4.25682	20.00000	Linear
M 121 TOTAL XYLENE	151	150	1.30200	0.010	0.92142	20.00000	Linear
120 Hexachlorobutadiene	0.38256	0.43216	0.43216	0.010	12.96543	20.00000	Averaged
122 1,2,4-Trichlorobenzene	50.33714	50.00000	1.03994	0.010	0.67427	20.00000	Linear
124 Naphthalene	48.97339	50.00000	2.77927	0.010	-2.05322	20.00000	Linear
125 1,2,3-Trichlorobenzene	50.59653	50.00000	0.93130	0.010	1.19305	20.00000	Linear

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Calibration File Names:
Level 1: /var/chem/msv11.i/2110501p.s.b/b2231A.d
Level 2: /var/chem/msv11.i/2110501p.s.b/b2233A.d
Level 3: /var/chem/msv11.i/2110501p.s.b/b2234A.d
Level 4: /var/chem/msv11.i/2110501p.s.b/b2235A.d
Level 5: /var/chem/msv11.i/2110501p.s.b/b2236A.d
Level 6: /var/chem/msv11.i/2110501p.s.b/b2232A.d
Level 8: /var/chem/msv11.i/2110501p.s.b/b2230A.d

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	1 Level 8										
1 Dichlorodifluoromethane	0.26790	0.26675	0.31962	0.31914	0.32667	0.27187					
	0.26915						AVRG		0.29158		9.74548
2 Chloromethane ++	0.32632	0.31226	0.36085	0.36919	0.39524	0.31279					
	0.31808						AVRG		0.34210		9.61000
3 Vinyl Chloride +	0.32236	0.32736	0.37992	0.38114	0.39251	0.33735					
	0.32974						AVRG		0.35291		8.54753
4 1-3 Butadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00 <-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Bromomethane	0.16995	0.16289	0.19877	0.19801	0.20821	0.15915						
	0.18201						AVRG		0.18271		10.60636	
6 Chloroethane	0.20276	0.20647	0.23481	0.23625	0.23859	0.19848						
	0.19535						AVRG		0.21610		9.00880	
9 Trichlorofluoromethane	0.36751	0.37817	0.43356	0.43553	0.44558	0.36887						
	0.37462						AVRG		0.40055		8.89047	
12 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
7 2-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
13 1,1-Dichloroethene +	0.21211	0.21446	0.25329	0.25328	0.26130	0.21637						
	0.20689						AVRG		0.23110		10.20405	
21 Carbon Disulfide	0.66527	0.66893	0.78781	0.78868	0.82837	0.66362						
	0.78257						AVRG		0.74075		9.66314	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 8											
19 1,1,2Trichlotrifluoroethane	0.22371	0.22340	0.27081	0.27149	0.27585	0.22406						
	0.23796						AVRG		0.24675		10.07065	
14 Methyl Iodide	9584	45917	138006	288547	597875	20685						
	1786						LINR	0.04537	0.34579		0.99972	
156 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
8 Acrolein	0.03244	0.03201	0.03431	0.03333	0.03353	0.03296						
	0.03319						AVRG		0.03311		2.25500	
17 Allyl chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
18 Methylene Chloride	0.42035	0.40875	0.44481	0.43111	0.43678	0.41540						
	0.54520						AVRG		0.44320		10.53343	
11 Acetone	0.15903	0.12829	0.12493	0.12130	0.11598	0.13864						
	+++++						AVRG		0.13136		11.82860	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
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Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
22 trans-1,2-Dichloroethene	0.38366 0.38152	0.38530	0.44329	0.44188	0.45197	0.38687	AVRG		0.41064		8.03539	
20 Methyl Acetate	0.24030 0.26701	0.23295	0.24363	0.24466	0.24973	0.23653	AVRG		0.24497		4.55744	
32 Hexane	0.52125 0.52497	0.52459	0.62966	0.63128	0.63936	0.52604	AVRG		0.57102		10.24041	
25 MTBE	0.69016 0.67115	0.72338	0.79636	0.81067	0.83323	0.70999	AVRG		0.74785		8.60227	
15 tert-Butyl Alcohol	0.02782 +++++	0.02722	0.03248	0.03064	0.03080	0.02909	AVRG		0.02967		6.71555	
10 Acetonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
28 Isopropyl Ether	1.08151 1.06922	1.08853	1.22732	1.18818	1.21833	1.09182	AVRG		1.13784		6.15725	

GCAL, Inc.

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Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
27 Chloroprene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
26 1,1-Dichloroethane ++	0.51634 0.51747	0.51218	0.57826	0.56996	0.58046	0.51594	AVRG		0.54152		6.03253	
16 Acrylonitrile	0.10487 0.10649	0.10664	0.11273	0.11178	0.11296	0.10836	AVRG		0.10912		3.05135	
29 Vinyl Acetate	11512 +++++	51870	159381	339535	727062	23524	LINR	0.08091	0.42237		0.99943	
152 Ethyl Tert-butyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
23 cis-1,2-Dichloroethene	0.39877 0.39188	0.40285	0.44377	0.44210	0.45021	0.41157	AVRG		0.42016		5.80742	
38 2,2-Dichloropropane	12512 2229	56688	168032	366394	776380	27116	LINR	0.06070	0.44843		0.99930	

GCAL, Inc.

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
45 Cyclohexane	0.48963	0.49147	0.58614	0.58253	0.60582	0.49432						
	0.51604						AVRG		0.53799		9.53652	
36 Bromochloromethane	0.13449	0.13428	0.14539	0.14113	0.14146	0.13191						
	0.11856						AVRG		0.13532		6.51959	
37 Chloroform +	0.47472	0.46308	0.51857	0.51231	0.53013	0.47833						
	0.47021						AVRG		0.49248		5.47845	
46 Carbon Tetrachloride	0.31852	0.33358	0.39189	0.39607	0.41131	0.32781						
	0.29974						AVRG		0.35413		12.52093	
53 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
35 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
31 sec-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Start Cal Date : 01-MAY-2011 11:55
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
43 1,1,1-Trichloroethane	0.40244	0.40855	0.47220	0.47287	0.48451	0.41604						
	0.39331						AVRG		0.43570		8.94947	
33 2-Butanone	0.19478	0.17015	0.17786	0.17463	0.17131	0.18306						
	+++++						AVRG		0.17863		5.14554	
44 1,1-Dichloropropene	0.37921	0.37956	0.43890	0.44081	0.45384	0.37837						
	0.36069						AVRG		0.40448		9.46781	
157 1,3-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
54 2,2,4 Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
47 Benzene	1.12265	1.12056	1.24723	1.24877	1.28886	1.12220						
	1.16933						AVRG		1.18852		6.03501	
24 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
30 Methylacrylonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
42 1,2-Dichloroethane	0.43384 / 0.42140	0.42481	0.45490	0.44533	0.44835	0.42894	AVRG		0.43680		2.93339	
34 Isobutyl Alcohol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
158 1,4-difluorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
80 Total 1,2-Dichloroethene	0.39121 / 0.38670	0.39408	0.44353	0.44199	0.45109	0.39922	AVRG		0.41540		6.87732	
154 Tert-butyl formate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
153 tert-amyl Methyl Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	1 Level 8											
155 Tert-amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
61 Methyl Cyclohexane	0.42985	0.42926	0.51936	0.51802	0.54172	0.43371						
	0.45735						AVRG		0.47561		10.30579	
57 Trichloroethene	0.27056	0.27086	0.31067	0.31325	0.32624	0.26850						
	0.26522						AVRG		0.28933		9.03325	
162 Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
159 1,2-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
M 161 Total Difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
40 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
55 Dibromomethane	0.17000	0.16875	0.18157	0.17912	0.18294	0.17155						
	0.16606						AVRG		0.17429		3.88685	
48 2-3 Dichloro-1-Proprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
56 1,2-Dichloropropane +	0.31931	0.31570	0.35177	0.34771	0.35862	0.31516						
	0.29712						AVRG		0.32934		7.03738	
58 Bromodichloromethane	0.35671	0.37156	0.41628	0.41488	0.42883	0.36697						
	0.35212						AVRG		0.38677		8.28316	
52 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
51 1,4- Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
160 Methyldisulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
60 1-Bromo-2-chloroethane	1753 155	7130	19525	39496	82775	3633	LINR	0.02355	0.04749		0.99976	
62 2-Chloroethyl vinyl ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
63 cis-1,3-Dichloropropene	0.45161 0.44700	0.47301	0.52650	0.52887	0.54603	0.46787	AVRG		0.49155		8.33295	
70 Toluene +	2.90091 2.94857	2.84376	3.12975	3.11904	3.18761	2.88468	AVRG		3.00205		4.63859	
49 2-Nitropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
78 Tetrachloroethene	0.51789 0.56631	0.51738	0.57513	0.58171	0.59441	0.52413	AVRG		0.55385		5.95950	
65 4-methyl-2-pentanone	0.32221 0.31808	0.32523	0.35859	0.35999	0.36473	0.32575	AVRG		0.33923		6.10231	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
66 trans-1,3-Dichloropropene	0.40073	0.42781	0.48194	0.48522	0.50650	0.41845						
	0.39914						AVRG		0.44568		9.96089	
67 1,1,2-Trichloroethane	0.60697	0.58755	0.61915	0.60692	0.61055	0.59467						
	0.57781						AVRG		0.60052		2.40185	
64 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
72 Dibromochloromethane	0.61659	0.65216	0.71884	0.71823	0.74222	0.62904						
	0.58069						AVRG		0.66540		9.22459	
71 1,3-Dichloropropane	1.13237	1.14196	1.22333	1.20145	1.19620	1.16569						
	1.16971						AVRG		1.17582		2.80009	
59 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
74 1,2-Dibromoethane(EDB)	0.61518	0.60193	0.64689	0.63039	0.63580	0.60939						
	0.59908						AVRG		0.61981		2.93090	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 8											
73 2-Hexanone	0.53935	0.55232	0.60548	0.60175	0.59553	0.55960						
	0.54044						AVRG		0.57064		5.13372	
M 87 1-3 Dichloropropene total	0.42617	0.45041	0.50422	0.50705	0.52626	0.44316						
	0.42307						AVRG		0.46862		9.10518	
151 3,3 Dimethyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
86 1-Chlorohexane	0.33756	0.34494	0.40164	0.40161	0.41363	0.34171						
	0.39402						AVRG		0.37645		8.85745	
85 Chlorobenzene ++	1.83235	1.80405	1.97266	1.96021	2.01726	1.80301						
	1.96715						AVRG		1.90810		4.77912	
88 Ethylbenzene +	0.96576	0.95638	1.07722	1.07952	1.11165	0.96783						
	0.96273						AVRG		1.01730		6.73392	
82 1,1,1,2-Tetrachloroethane	0.60210	0.60363	0.66969	0.66582	0.68185	0.60032						
	0.56229						AVRG		0.62653		7.25631	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6 / 1 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
69 3-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
89 p,m-Xylene	1.17582	1.17027	1.32439	1.34763	1.40082	1.17516						
	1.16914						AVRG		1.25189		8.10597	
75 2-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
93 o-Xylene	1.13190	1.13110	1.26160	1.25792	1.30086	1.10425						
	1.06133						AVRG		1.17842		7.88807	
90 Bromoform ++	0.40605	0.45326	0.50330	0.51251	0.53305	0.43457						
	0.35244						AVRG		0.45645		14.15634	
91 Styrene	1.81886	1.89826	2.13188	2.15619	2.25703	1.83976						
	1.85417						AVRG		1.99374		9.10421	
96 Isopropylbenzene	2.88320	2.94258	3.28123	3.30754	3.45970	2.87083						
	2.85773						AVRG		3.08611		8.22881	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
98 Bromobenzene	1.59939	1.59342	1.69344	1.65779	1.67093	1.61603					
	1.68383						AVRG		1.64498		2.51507
100 n-Propylbenzene	3.83763	3.90080	4.35246	4.28039	4.35818	3.88852					
	3.95095						AVRG		4.08128		5.79774
M 120 TOTAL XYLENE	1.16118	1.15721	1.30346	1.31773	1.36750	1.15152					
	1.13320						AVRG		1.22740		7.97668
92 1,1,2,2-Tetrachloroethane++	0.88351	0.87339	0.92292	0.87364	0.84131	0.89928					
	0.93062						AVRG		0.88924		3.48800
101 2-Chlorotoluene	2.58476	2.60775	2.84616	2.78998	2.82372	2.59704					
	2.55043						AVRG		2.68569		4.76097
94 1,2,3-Trichloropropane	1.08626	1.14646	1.21315	1.18780	1.16835	1.13160					
	1.01302						AVRG		1.13524		5.95320
104 1,3,5-Trimethylbenzene	2.62205	2.68306	2.97075	2.94325	3.00170	2.62393					
	2.65633						AVRG		2.78587		6.31910

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 8											
76 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
95 trans-1,4-Dichloro-2-Butene	0.24133	0.26159	0.28645	0.28747	0.28523	0.25116						
	0.20635						AVRG		0.25994		11.53933	
102 4-Chlorotoluene	2.40771	2.39152	2.63116	2.57454	2.60792	2.44408						
	2.51604						AVRG		2.51042		3.89323	
105 tert-butylbenzene	1.47723	1.50985	1.66058	1.62674	1.66423	1.52254						
	1.54967						AVRG		1.57298		4.86468	
84 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
106 1,2,4-Trimethylbenzene	2.64120	2.70768	2.99143	2.95967	3.01265	2.68284						
	2.72000						AVRG		2.81650		5.78568	
103 2-methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 8											
107 sec-Butylbenzene	3.24112	3.28548	3.72990	3.66469	3.78640	3.28266						
	3.33395						AVRG		3.47488		6.90504	
112 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
111 p-Isopropyltoluene	2.63963	2.73923	3.10232	3.09577	3.19704	2.67217						
	2.59640						AVRG		2.86322		8.96963	
108 1,3-Dichlorobenzene	1.47764	1.46050	1.61409	1.59870	1.64841	1.47214						
	1.55750						AVRG		1.54700		4.96971	
110 1,4-Dichlorobenzene	1.53947	1.55299	1.66072	1.65999	1.71166	1.53904						
	1.73388						AVRG		1.62825		5.11887	
114 n-Butylbenzene	2.38931	2.51202	2.87433	2.87755	2.94255	2.46105						
	2.59742						AVRG		2.66489		8.55156	
113 1,2-Dichlorobenzene	1.42010	1.40374	1.50505	1.52458	1.57172	1.39715						
	1.45773						AVRG		1.46858		4.55751	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	1 Level 8											
81 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
79 1-4 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
77 1-2 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
115 1,2-Dibromo-3-Chloropropane	0.14166	0.15817	0.17455	0.18767	0.19025	0.14514						
	0.14165						AVRG		0.16273		13.12664	
99 Benzal Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
118 Hexachlorobutadiene	0.39042	0.38712	0.47314	0.49950	0.52219	0.38769						
	0.43381						AVRG		0.44198		12.86348	
116 1,2,4-Trichlorobenzene	0.95135	0.98421	1.11612	1.12853	1.13993	0.96533						
	1.07499						AVRG		1.05150		7.81019	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2011 11:55
End Cal Date : 01-MAY-2011 14:13
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Cal Date : 12-May-2011 11:16 rjo

Compound	5 Level 1 / 1 Level 8	20 Level 2	50 Level 3	100 Level 4	200 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
117 Naphthalene	2.17449	2.30125	2.63266	2.60327	2.63432	2.26327						
	2.38086						AVRG		2.42716		7.97584	
119 1,2,3-Trichlorobenzene	0.85672	0.89149	0.99719	1.01157	1.01345	0.86416						
	0.98510						AVRG		0.94567		7.55642	
M 121 Total Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
S 39 Dibromofluoromethane	0.23653	0.23962	0.24431	0.24446	0.24672	0.23972						
	0.23622						AVRG		0.24108		1.71012	
41 1,2-Dichloroethane-d4	0.16435	0.16181	0.16642	0.16625	0.16914	0.16297						
	0.16343						AVRG		0.16491		1.52427	
S 68 Toluene-d8	2.35465	2.33937	2.32370	2.27961	2.25160	2.34301						
	2.34549						AVRG		2.31963		1.67683	
S 97 Bromofluorobenzene	0.70456	0.70580	0.70808	0.70879	0.72197	0.69786						
	0.69833						AVRG		0.70649		1.14520	

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: 8260bDIPE+TBA.sub
Method File: /var/chem/msv11.i/2110501p.s.b/8260bw11dodA.m
Misc Info: MSV~21647~*1*JCK

Client SDG: 2110501p.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: JCK
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluoromethane	50.0	50.7	101.39	80-120
2	Chloromethane ++	50.0	47.4	94.73	80-120
3	Vinyl Chloride +	50.0	50.6	101.24	80-120
5	Bromomethane	50.0	51.9	103.79	80-120
6	Chloroethane	50.0	50.8	101.58	80-120
9	Trichlorofluoromethane	50.0	50.9	101.74	80-120
13	1,1-Dichloroethene +	50.0	51.5	103.04	80-120
21	Carbon Disulfide	50.0	52.9	105.70	80-120
19	1,1,2Trichlotrifluoroethane	50.0	51.9	103.81	80-120
14	Methyl Iodide	50.0	46.7	93.44	80-120
8	Acrolein	250	248	99.16	80-120
18	Methylene Chloride	50.0	46.5	92.95	80-120
11	Acetone	50.0	44.9	89.89	80-120
22	trans-1,2-Dichloroethene	50.0	51.7	103.37	80-120
25	MTBE	50.0	52.2	104.45	80-120
15	tert-Butyl Alcohol	50.0	55.0	109.96	80-120
28	Isopropyl Ether	50.0	51.0	101.97	80-120
26	1,1-Dichloroethane ++	50.0	50.2	100.46	80-120
16	Acrylonitrile	250	245	97.84	80-120
29	Vinyl Acetate	50.0	48.6	97.15	80-120
23	cis-1,2-Dichloroethene	50.0	50.2	100.48	80-120
38	2,2-Dichloropropane	50.0	47.2	94.47	80-120
45	Cyclohexane	50.0	51.3	102.60	80-120
36	Bromochloromethane	50.0	52.3	104.60	80-120
37	Chloroform +	50.0	49.8	99.67	80-120
46	Carbon Tetrachloride	50.0	52.5	104.96	80-120
43	1,1,1-Trichloroethane	50.0	50.6	101.13	80-120
33	2-Butanone	50.0	47.1	94.13	80-120
44	1,1-Dichloropropene	50.0	50.9	101.79	80-120
47	Benzene	50.0	49.4	98.70	80-120
42	1,2-Dichloroethane	50.0	49.4	98.71	80-120
61	Methyl Cyclohexane	50.0	53.7	107.31	80-120
57	Trichloroethene	50.0	50.4	100.74	80-120

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
55 Dibromomethane	50.0	49.3	98.56	80-120	
56 1,2-Dichloropropane +	50.0	50.2	100.42	80-120	
58 Bromodichloromethane	50.0	50.8	101.66	80-120	
62 2-Chloroethyl vinyl ether	50.0	0.00	*	80-120	NT
63 cis-1,3-Dichloropropene	50.0	51.0	101.98	80-120	
70 Toluene +	50.0	49.6	99.27	80-120	
78 Tetrachloroethene	50.0	51.0	102.02	80-120	
65 4-methyl-2-pentanone	50.0	50.5	101.01	80-120	
66 trans-1,3-Dichloropropene	50.0	52.2	104.40	80-120	
67 1,1,2-Trichloroethane	50.0	49.9	99.73	80-120	
72 Dibromochloromethane	50.0	51.7	103.41	80-120	
71 1,3-Dichloropropane	50.0	49.5	99.07	80-120	
74 1,2-Dibromoethane(EDB)	50.0	49.7	99.30	80-120	
73 2-Hexanone	50.0	51.7	103.43	80-120	
85 Chlorobenzene ++	50.0	49.8	99.63	80-120	
88 Ethylbenzene +	50.0	50.8	101.56	80-120	
82 1,1,1,2-Tetrachloroethane	50.0	50.8	101.52	80-120	
89 p,m-Xylene	100	102	101.71	80-120	
93 o-Xylene	50.0	51.2	102.35	80-120	
91 Styrene	50.0	51.2	102.38	80-120	
90 Bromoform ++	50.0	53.6	107.28	80-120	
96 Isopropylbenzene	50.0	51.3	102.55	80-120	
98 Bromobenzene	50.0	50.4	100.75	80-120	
100 n-Propylbenzene	50.0	53.1	106.13	80-120	
92 1,1,2,2-Tetrachloroethane++	50.0	51.1	102.12	80-120	
101 2-Chlorotoluene	50.0	52.0	103.98	80-120	
104 1,3,5-Trimethylbenzene	50.0	52.7	105.38	80-120	
94 1,2,3-Trichloropropane	50.0	52.8	105.60	80-120	
95 trans-1,4-Dichloro-2-Butene	50.0	54.6	109.23	80-120	
102 4-Chlorotoluene	50.0	51.5	102.99	80-120	
105 tert-butylbenzene	50.0	52.9	105.87	80-120	
106 1,2,4-Trimethylbenzene	50.0	52.6	105.12	80-120	
107 sec-Butylbenzene	50.0	53.9	107.76	80-120	
111 p-Isopropyltoluene	50.0	54.5	109.06	80-120	
108 1,3-Dichlorobenzene	50.0	51.1	102.26	80-120	
110 1,4-Dichlorobenzene	50.0	50.5	100.92	80-120	
114 n-Butylbenzene	50.0	54.9	109.72	80-120	
113 1,2-Dichlorobenzene	50.0	50.2	100.42	80-120	
115 1,2-Dibromo-3-Chloropropane	50.0	51.2	102.38	80-120	
118 Hexachlorobutadiene	50.0	54.8	109.63	80-120	
116 1,2,4-Trichlorobenzene	50.0	54.4	108.87	80-120	
117 Naphthalene	50.0	53.9	107.77	80-120	
119 1,2,3-Trichlorobenzene	50.0	54.2	108.44	80-120	

Data File: /var/chem/msv11.i/2110509p.s.b/b2567.d
Report Date: 09-May-2011 21:36

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2567.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110509p.s.b/8260bw11dod.m

Injection Date: 09-MAY-2011 19:27
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.29158	0.34568	0.34568	0.010	18.55089	20.00000	Averaged
2 Chloromethane ++	0.34210	0.30080	0.30080	0.100	-12.07317	20.00000	Averaged
3 Vinyl Chloride +	0.35291	0.38635	0.38635	0.010	9.47497	20.00000	Averaged
5 Bromomethane	0.18271	0.16288	0.16288	0.010	-10.85440	20.00000	Averaged
6 Chloroethane	0.21610	0.23754	0.23754	0.010	9.91902	20.00000	Averaged
9 Trichlorofluoromethane	0.40055	0.45831	0.45831	0.010	14.42016	20.00000	Averaged
13 1,1-Dichloroethene +	0.23110	0.26308	0.26308	0.010	13.83760	20.00000	Averaged
21 Carbon Disulfide	0.74075	0.86706	0.86706	0.010	17.05148	20.00000	Averaged
19 1,1,2Trichlotrifluoroethane	0.24675	0.28328	0.28328	0.010	14.80216	20.00000	Averaged
14 Methyl Iodide	36.46682	50.00000	0.23651	0.010	-27.06636	20.00000	Linear <-NT
8 Acrolein	0.03311	0.02650	0.02650	0.010	-19.96492	20.00000	Averaged
18 Methylene Chloride	0.44320	0.44253	0.44253	0.010	-0.15160	20.00000	Averaged
11 Acetone	0.13136	0.11547	0.11547	0.010	-12.09502	20.00000	Averaged
22 trans-1,2-Dichloroethene	0.41064	0.45235	0.45235	0.010	10.15582	20.00000	Averaged
20 Methyl Acetate	0.24497	0.22841	0.22841	0.010	-6.76147	20.00000	Averaged
32 Hexane	0.57102	0.66510	0.66510	0.010	16.47526	20.00000	Averaged
25 MTBE	0.74785	0.77282	0.77282	0.010	3.33849	20.00000	Averaged
28 Isopropyl Ether	1.13784	1.19357	1.19357	0.010	4.89722	20.00000	Averaged
26 1,1-Dichloroethane ++	0.54152	0.57877	0.57877	0.100	6.87980	20.00000	Averaged
16 Acrylonitrile	0.10912	0.09752	0.09752	0.010	-10.62533	20.00000	Averaged
29 Vinyl Acetate	54.24133	50.00000	0.42403	0.010	8.48267	20.00000	Linear
23 cis-1,2-Dichloroethene	0.42016	0.44929	0.44929	0.010	6.93250	20.00000	Averaged
38 2,2-Dichloropropane	51.79376	50.00000	0.43730	0.010	3.58753	20.00000	Linear
45 Cyclohexane	0.53799	0.59689	0.59689	0.010	10.94684	20.00000	Averaged
36 Bromochloromethane	0.13532	0.15020	0.15020	0.010	10.99982	20.00000	Averaged
M 80 Total 1,2-Dichloroethene	0.41540	0.45082	0.45082	0.010	8.52569	20.00000	Averaged
37 Chloroform +	0.49248	0.52662	0.52662	0.010	6.93264	20.00000	Averaged
46 Carbon Tetrachloride	0.35413	0.40194	0.40194	0.010	13.50082	20.00000	Averaged
$ 39 Dibromofluoromethane	0.24108	0.24728	0.24728	0.010	2.57165	20.00000	Averaged
43 1,1,1-Trichloroethane	0.43570	0.47887	0.47887	0.010	9.90818	20.00000	Averaged
33 2-Butanone	0.17863	0.15629	0.15629	0.010	-12.50723	20.00000	Averaged
44 1,1-Dichloropropene	0.40448	0.44435	0.44435	0.010	9.85604	20.00000	Averaged
47 Benzene	1.18852	1.24972	1.24972	0.010	5.14946	20.00000	Averaged
$ 41 1,2-Dichloroethane-d4	0.16491	0.16442	0.16442	0.010	-0.29410	20.00000	Averaged
42 1,2-Dichloroethane	0.43680	0.45522	0.45522	0.010	4.21800	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2567.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110509p.s.b/8260bw11dod.m

Injection Date: 09-MAY-2011 19:27
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
61 Methyl Cyclohexane	0.47561	0.55240	0.55240	0.010	16.14476	20.00000	Averaged	
57 Trichloroethene	0.28933	0.31480	0.31480	0.010	8.80351	20.00000	Averaged	
55 Dibromomethane	0.17429	0.17952	0.17952	0.010	3.00251	20.00000	Averaged	
56 1,2-Dichloropropane +	0.32934	0.34510	0.34510	0.010	4.78387	20.00000	Averaged	
58 Bromodichloromethane	0.38677	0.41775	0.41775	0.010	8.01192	20.00000	Averaged	
60 1-Bromo-2-chloroethane	50.27320	50.00000	0.04664	0.010	0.54640	20.00000	Linear	
62 2-Chloroethyl vinyl ether	++++	0.45202	0.45202	0.010	++++	20.00000	Averaged	<- MT
63 cis-1,3-Dichloropropene	0.49155	0.52053	0.52053	0.010	5.89471	20.00000	Averaged	
$ 68 Toluene-d8	2.31963	2.30757	2.30757	0.010	-0.51988	20.00000	Averaged	
70 Toluene +	3.00205	3.08731	3.08731	0.010	2.84014	20.00000	Averaged	
78 Tetrachloroethene	0.55385	0.59444	0.59444	0.010	7.32835	20.00000	Averaged	
65 4-methyl-2-pentanone	0.33923	0.32087	0.32087	0.010	-5.40979	20.00000	Averaged	
66 trans-1,3-Dichloropropene	0.44568	0.47954	0.47954	0.010	7.59567	20.00000	Averaged	
67 1,1,2-Trichloroethane	0.60052	0.60370	0.60370	0.010	0.52968	20.00000	Averaged	
72 Dibromochloromethane	0.66540	0.70206	0.70206	0.010	5.51014	20.00000	Averaged	
71 1,3-Dichloropropane	1.17582	1.16169	1.16169	0.010	-1.20153	20.00000	Averaged	
M 87 1-3 Dichloropropene total	0.46862	0.50003	0.50003	0.010	6.70356	20.00000	Averaged	
74 1,2-Dibromoethane(EDB)	0.61981	0.62677	0.62677	0.010	1.12372	20.00000	Averaged	
73 2-Hexanone	0.57064	0.51424	0.51424	0.010	-9.88262	20.00000	Averaged	
86 1-Chlorohexane	0.37645	0.41646	0.41646	0.010	10.62878	20.00000	Averaged	
85 Chlorobenzene ++	1.90810	1.95406	1.95406	0.300	2.40854	20.00000	Averaged	
88 Ethylbenzene +	1.01730	1.06014	1.06014	0.010	4.21161	20.00000	Averaged	
82 1,1,1,2-Tetrachloroethane	0.62653	0.66010	0.66010	0.010	5.35795	20.00000	Averaged	
89 p,m-Xylene	1.25189	1.31715	1.31715	0.010	5.21289	20.00000	Averaged	
93 o-Xylene	1.17842	1.23400	1.23400	0.010	4.71593	20.00000	Averaged	
91 Styrene	1.99374	2.07783	2.07783	0.010	4.21781	20.00000	Averaged	
90 Bromoform ++	0.45645	0.48622	0.48622	0.100	6.52104	20.00000	Averaged	
96 Isopropylbenzene	3.08611	3.29516	3.29516	0.010	6.77383	20.00000	Averaged	
$ 97 Bromofluorobenzene	0.70649	0.74127	0.74127	0.010	4.92420	20.00000	Averaged	
98 Bromobenzene	1.64498	1.62176	1.62176	0.010	-1.41145	20.00000	Averaged	
100 n-Propylbenzene	4.08128	4.26120	4.26120	0.010	4.40845	20.00000	Averaged	
92 1,1,2,2-Tetrachloroethane++	0.88924	0.84314	0.84314	0.300	-5.18354	20.00000	Averaged	
101 2-Chlorotoluene	2.68569	2.74314	2.74314	0.010	2.13917	20.00000	Averaged	
104 1,3,5-Trimethylbenzene	2.78587	2.91164	2.91164	0.010	4.51473	20.00000	Averaged	
94 1,2,3-Trichloropropane	1.13524	1.05464	1.05464	0.010	-7.09958	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2567.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110509p.s.b/8260bw11dod.m

Injection Date: 09-MAY-2011 19:27
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
95 trans-1,4-Dichloro-2-Butene	0.25994	0.25726	0.25726	0.010	-1.03200	20.00000	Averaged
102 4-Chlorotoluene	2.51042	2.55204	2.55204	0.010	1.65781	20.00000	Averaged
105 tert-butylbenzene	1.57298	1.66203	1.66203	0.010	5.66116	20.00000	Averaged
106 1,2,4-Trimethylbenzene	2.81650	2.93177	2.93177	0.010	4.09276	20.00000	Averaged
107 sec-Butylbenzene	3.47488	3.73461	3.73461	0.010	7.47444	20.00000	Averaged
111 p-Isopropyltoluene	2.86322	3.13377	3.13377	0.010	9.44891	20.00000	Averaged
108 1,3-Dichlorobenzene	1.54700	1.60402	1.60402	0.010	3.68595	20.00000	Averaged
110 1,4-Dichlorobenzene	1.62825	1.67023	1.67023	0.010	2.57836	20.00000	Averaged
114 n-Butylbenzene	2.66489	2.93269	2.93269	0.010	10.04939	20.00000	Averaged
113 1,2-Dichlorobenzene	1.46858	1.49747	1.49747	0.010	1.96688	20.00000	Averaged
M 120 TOTAL XYLENE	1.22740	1.28943	1.28943	0.010	5.05385	20.00000	Averaged
115 1,2-Dibromo-3-Chloropropane	0.16273	0.15672	0.15672	0.010	-3.69483	20.00000	Averaged
118 Hexachlorobutadiene	0.44198	0.50969	0.50969	0.010	15.31840	20.00000	Averaged
116 1,2,4-Trichlorobenzene	1.05150	1.12429	1.12429	0.010	6.92290	20.00000	Averaged
117 Naphthalene	2.42716	2.42832	2.42832	0.010	0.04783	20.00000	Averaged
119 1,2,3-Trichlorobenzene	0.94567	1.00274	1.00274	0.010	6.03528	20.00000	Averaged

Data File: /var/chem/msv11.i/2110511.s.b/b2645.d
Report Date: 11-May-2011 07:23

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2645.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110511.s.b/8260bw11dodA.m

Injection Date: 11-MAY-2011 07:12
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.29158	0.29801	0.29801	0.010	2.20471	20.00000	Averaged	
2 Chloromethane ++	0.34210	0.32188	0.32188	0.100	-5.91285	20.00000	Averaged	
3 Vinyl Chloride +	0.35291	0.39195	0.39195	0.010	11.06197	20.00000	Averaged	
5 Bromomethane	0.18271	0.16579	0.16579	0.010	-9.26352	20.00000	Averaged	
6 Chloroethane	0.21610	0.23367	0.23367	0.010	8.12880	20.00000	Averaged	
9 Trichlorofluoromethane	0.40055	0.44783	0.44783	0.010	11.80529	20.00000	Averaged	
13 1,1-Dichloroethene +	0.23110	0.25639	0.25639	0.010	10.94302	20.00000	Averaged	
21 Carbon Disulfide	0.74075	0.85460	0.85460	0.010	15.36967	20.00000	Averaged	
19 1,1,2Trichlotrifluoroethane	0.24675	0.28453	0.28453	0.010	15.30983	20.00000	Averaged	
14 Methyl Iodide	45.14789	50.00000	0.29655	0.010	-9.70422	20.00000	Linear	
8 Acrolein	0.03311	0.02887	0.02887	0.010	-12.81223	20.00000	Averaged	
18 Methylene Chloride	0.44320	0.46457	0.46457	0.010	4.82199	20.00000	Averaged	
11 Acetone	0.13136	0.16154	0.16154	0.010	22.97728	20.00000	Averaged	<-
22 trans-1,2-Dichloroethene	0.41064	0.46664	0.46664	0.010	13.63740	20.00000	Averaged	
20 Methyl Acetate	0.24497	0.24010	0.24010	0.010	-1.98690	20.00000	Averaged	
32 Hexane	0.57102	0.67576	0.67576	0.010	18.34187	20.00000	Averaged	
25 MTBE	0.74785	0.72676	0.72676	0.010	-2.82013	20.00000	Averaged	
15 tert-Butyl Alcohol	0.02967	0.03048	0.03048	0.010	2.70521	20.00000	Averaged	
28 Isopropyl Ether	1.13784	1.28050	1.28050	0.010	12.53746	20.00000	Averaged	
26 1,1-Dichloroethane ++	0.54152	0.60859	0.60859	0.100	12.38663	20.00000	Averaged	
16 Acrylonitrile	0.10912	0.10528	0.10528	0.010	-3.51583	20.00000	Averaged	
29 Vinyl Acetate	52.13978	50.00000	0.40627	0.010	4.27957	20.00000	Linear	
23 cis-1,2-Dichloroethene	0.42016	0.47458	0.47458	0.010	12.95188	20.00000	Averaged	
38 2,2-Dichloropropane	50.38168	50.00000	0.42463	0.010	0.76336	20.00000	Linear	
45 Cyclohexane	0.53799	0.63228	0.63228	0.010	17.52627	20.00000	Averaged	
36 Bromochloromethane	0.13532	0.15300	0.15300	0.010	13.06613	20.00000	Averaged	
M 80 Total 1,2-Dichloroethene	0.41540	0.47061	0.47061	0.010	13.29071	20.00000	Averaged	
37 Chloroform +	0.49248	0.55708	0.55708	0.010	13.11795	20.00000	Averaged	
46 Carbon Tetrachloride	0.35413	0.41833	0.41833	0.010	18.12909	20.00000	Averaged	
$ 39 Dibromofluoromethane	0.24108	0.24672	0.24672	0.010	2.33983	20.00000	Averaged	
43 1,1,1-Trichloroethane	0.43570	0.49561	0.49561	0.010	13.75028	20.00000	Averaged	
33 2-Butanone	0.17863	0.19342	0.19342	0.010	8.27671	20.00000	Averaged	
44 1,1-Dichloropropene	0.40448	0.46117	0.46117	0.010	14.01461	20.00000	Averaged	
47 Benzene	1.18852	1.31396	1.31396	0.010	10.55493	20.00000	Averaged	
$ 41 1,2-Dichloroethane-d4	0.16491	0.16930	0.16930	0.010	2.66540	20.00000	Averaged	

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GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2645.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110511.s.b/8260bw11dodA.m

Injection Date: 11-MAY-2011 07:12
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
42 1,2-Dichloroethane	0.43680	0.48249	0.48249	0.010	10.46194	20.00000	Averaged	
61 Methyl Cyclohexane	0.47561	0.57741	0.57741	0.010	21.40426	20.00000	Averaged	<- NT
57 Trichloroethene	0.28933	0.32350	0.32350	0.010	11.80958	20.00000	Averaged	
55 Dibromomethane	0.17429	0.19158	0.19158	0.010	9.92163	20.00000	Averaged	
56 1,2-Dichloropropane +	0.32934	0.37682	0.37682	0.010	14.41685	20.00000	Averaged	
58 Bromodichloromethane	0.38677	0.44185	0.44185	0.010	14.24109	20.00000	Averaged	
60 1-Bromo-2-chloroethane	51.28387	50.00000	0.04760	0.010	2.56774	20.00000	Linear	
62 2-Chloroethyl vinyl ether	++++	++++	0.00000	0.010	++++	20.00000	Averaged	<- NT
63 cis 1,3-Dichloropropene	0.49155	0.54497	0.54497	0.010	10.86742	20.00000	Averaged	
$ 68 Toluene-d8	2.31963	2.27606	2.27606	0.010	-1.87853	20.00000	Averaged	
70 Toluene +	3.00205	3.14884	3.14884	0.010	4.88982	20.00000	Averaged	
78 Tetrachloroethene	0.55385	0.59431	0.59431	0.010	7.30550	20.00000	Averaged	
65 4-methyl-2-pentanone	0.33923	0.35894	0.35894	0.010	5.81285	20.00000	Averaged	
66 trans-1,3-Dichloropropene	0.44568	0.50809	0.50809	0.010	14.00164	20.00000	Averaged	
67 1,1,2-Trichloroethane	0.60052	0.62814	0.62814	0.010	4.60005	20.00000	Averaged	
72 Dibromochloromethane	0.66540	0.73808	0.73808	0.010	10.92282	20.00000	Averaged	
71 1,3-Dichloropropane	1.17582	1.22971	1.22971	0.010	4.58356	20.00000	Averaged	
M 87 1-3 Dichloropropene total	0.46862	0.52653	0.52653	0.010	12.35783	20.00000	Averaged	
74 1,2-Dibromoethane(EDB)	0.61981	0.64783	0.64783	0.010	4.52160	20.00000	Averaged	
73 2-Hexanone	0.57064	0.65702	0.65702	0.010	15.13776	20.00000	Averaged	
86 1-Chlorohexane	0.37645	0.42667	0.42667	0.010	13.34091	20.00000	Averaged	
85 Chlorobenzene ++	1.90810	2.01319	2.01319	0.300	5.50758	20.00000	Averaged	
88 Ethylbenzene +	1.01730	1.09048	1.09048	0.010	7.19380	20.00000	Averaged	
82 1,1,1,2-Tetrachloroethane	0.62653	0.68850	0.68850	0.010	9.89094	20.00000	Averaged	
89 p,m-Xylene	1.25189	1.36260	1.36260	0.010	8.84360	20.00000	Averaged	
93 o-Xylene	1.17842	1.26915	1.26915	0.010	7.69900	20.00000	Averaged	
91 Styrene	1.99374	2.16876	2.16876	0.010	8.77866	20.00000	Averaged	
90 Bromoform ++	0.45645	0.51966	0.51966	0.100	13.84624	20.00000	Averaged	
96 Isopropylbenzene	3.08611	3.43733	3.43733	0.010	11.38053	20.00000	Averaged	
$ 97 Bromofluorobenzene	0.70649	0.72181	0.72181	0.010	2.16888	20.00000	Averaged	
98 Bromobenzene	1.64498	1.72740	1.72740	0.010	5.01037	20.00000	Averaged	
100 n-Propylbenzene	4.08128	4.47209	4.47209	0.010	9.57584	20.00000	Averaged	
92 1,1,2,2-Tetrachloroethane++	0.88924	0.93787	0.93787	0.300	5.46920	20.00000	Averaged	
101 2-Chlorotoluene	2.68569	2.90284	2.90284	0.010	8.08545	20.00000	Averaged	
104 1,3,5-Trimethylbenzene	2.78587	3.04807	3.04807	0.010	9.41205	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv11.i
Lab File ID: b2645.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv11.i/2110511.s.b/8260bw11dodA.m

Injection Date: 11-MAY-2011 07:12
Init. Cal. Date(s): 01-MAY-2011 01-MAY-2011
Init. Cal. Times: 11:55 14:13
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 1,2,3-Trichloropropane	1.13524	1.21097	1.21097	0.010	6.67120	20.00000	Averaged
95 trans-1,4-Dichloro-2-Butene	0.25994	0.28213	0.28213	0.010	8.53718	20.00000	Averaged
102 4-Chlorotoluene	2.51042	2.69317	2.69317	0.010	7.27958	20.00000	Averaged
105 tert-butylbenzene	1.57298	1.72639	1.72639	0.010	9.75310	20.00000	Averaged
106 1,2,4-Trimethylbenzene	2.81650	3.07570	3.07570	0.010	9.20302	20.00000	Averaged
107 sec-Butylbenzene	3.47488	3.89022	3.89022	0.010	11.95241	20.00000	Averaged
111 p-Isopropyltoluene	2.86322	3.26682	3.26682	0.010	14.09588	20.00000	Averaged
108 1,3-Dichlorobenzene	1.54700	1.70049	1.70049	0.010	9.92228	20.00000	Averaged
110 1,4-Dichlorobenzene	1.62825	1.76082	1.76082	0.010	8.14204	20.00000	Averaged
114 n-Butylbenzene	2.66489	3.07119	3.07119	0.010	15.24668	20.00000	Averaged
113 1,2-Dichlorobenzene	1.46858	1.59269	1.59269	0.010	8.45090	20.00000	Averaged
M 120 TOTAL XYLENE	1.22740	1.33145	1.33145	0.010	8.47729	20.00000	Averaged
115 1,2-Dibromo-3-Chloropropane	0.16273	0.16741	0.16741	0.010	2.87523	20.00000	Averaged
118 Hexachlorobutadiene	0.44198	0.48581	0.48581	0.010	9.91614	20.00000	Averaged
116 1,2,4-Trichlorobenzene	1.05150	1.17997	1.17997	0.010	12.21795	20.00000	Averaged
117 Naphthalene	2.42716	2.63172	2.63172	0.010	8.42817	20.00000	Averaged
119 1,2,3-Trichlorobenzene	0.94567	1.05394	1.05394	0.010	11.44944	20.00000	Averaged

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID (Standard): 2110510/c3251d Date Analyzed: 05/10/11 Time: 1324

Instrument ID: MSV7 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 456069 Heated Burge: (Y/N) N

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT
STANDARD	1510371	5.64	583105	9.21	645666	12.23

EPA Sample No.	IS1 Area	#	RT	#	IS2 Area	#	RT	#	IS3 Area	#	RT	#
LCS945920	1721135		5.64		648937		9.20		707000		12.23	
LCSD945921	1674600		5.64		649214		9.21		696074		12.23	
MB945919	1544225		5.64		529627		9.21		549063		12.23	
MAO1MW001	1482275		5.64		509232		9.21		522504		12.23	
MAO1MW001-MS	1532063		5.64		586919		9.20		642475		12.23	
MAO1MW001-MSD	1584182		5.64		612825		9.21		664089		12.23	
TB6	1460610		5.64		505730		9.20		522904		12.23	

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50 % of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID (Standard): 2110501p/b2234 Date Analyzed: 05/01/11 Time: 1323

Instrument ID: MSV11 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 456001 Heated Burge: (Y/N) N

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT
STANDARD	415586	7.11	175565	9.89	154663	11.57

EPA Sample No.	IS1 Area	#	RT	#	IS2 Area	#	RT	#	IS3 Area	#	RT	#
LCS945624	342439		7.11		148725		9.89		135289		11.58	
LCSD945625	349086		7.11		149480		9.90		135027		11.58	
MB945623	343195		7.11		144033		9.89		123058		11.58	
MAO2MW001D	339997		7.11		141980		9.89		121726		11.58	
M114MW004	332631		7.11		141769		9.89		121996		11.58	
TB1	334734		7.11		141455		9.89		120319		11.58	
TB2	333202		7.11		139598		9.89		120530		11.58	
M114MW002	329071		7.11		139458		9.89		120089		11.58	
EB1	332877		7.11		140762		9.89		119911		11.58	
M114MW003	332799		7.11		140812		9.89		121784		11.58	
TB4	329859		7.11		137685		9.89		116521		11.58	
TB5	324744		7.11		136813		9.89		117101		11.58	

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50 % of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab File ID (Standard): 2110501p/b2234 Date Analyzed: 05/01/11 Time: 1323

Instrument ID: MSV11 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 456078 Heated Burge: (Y/N) N

	IS1		IS2		IS3	
	Area	RT	Area	RT	Area	RT
STANDARD	415586	7.11	175565	9.89	154663	11.57

EPA Sample No.		#		#		#		#		#		#
LCS945969	302651		7.11		133142		9.89		121667		11.58	
LCSD945970	311627		7.11		138223		9.90		122292		11.58	
MB945968	300823		7.11		129123		9.89		109618		11.58	
M114MW001	296703		7.11		126980		9.89		107164		11.58	
M114MW001-DUP	296775		7.11		126589		9.89		105727		11.58	
TB8	293263		7.11		126507		9.89		104837		11.58	
MAOMW004	292295		7.11		124741		9.89		105460		11.58	
MAOMW003	293901		7.11		125676		9.89		105075		11.58	
TB7	291828		7.11		126312		9.90		104678		11.58	

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 10-MAY-2011
Instrument: msv7.i
Analyst(s): LBH

Standard	Conc ppm		
BFB IS/SS	50	7-5-3	09/18/11
8260 IS/SS	50	6-99-2	05/21/11
8260	50	7-8-10	05/12/11
Ac/Ac/VA	250/50	7-8-9	08/30/11
8260 ICV	50	7-6-4	09/26/11
AC/AC/VA ICV	250/50	7-6-3	08/26/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		c3240.d	0.00 ml	10-MAY-2011 06:08	1.000		2
1400	RR	c3241.d	5.00 ml	10-MAY-2011 07:09	1.000	LBH	37
1400	RECALIBRATE	c3242.d	5.00 ml	10-MAY-2011 08:05	1.000	LBH	38
1000		c3245bfb.d	0.00 ml	10-MAY-2011 10:58	1.000	CLH	2
1000		c3245dbfb.d	0.00 ml	10-MAY-2011 10:58	1.000	CLH	2
1209		c3246.d	5.00 ml	10-MAY-2011 11:37	1.000	CLH	1
1201		c3246d.d	5.00 ml	10-MAY-2011 11:37	1.000	CLH	1
1208		c3247.d	5.00 ml	10-MAY-2011 11:58	1.000	CLH	2
1203		c3247d.d	5.00 ml	10-MAY-2011 11:58	1.000	CLH	2
1201		c3248.d	5.00 ml	10-MAY-2011 12:19	1.000	CLH	3
1204		c3248d.d	5.00 ml	10-MAY-2011 12:19	1.000	CLH	3
1206		c3249.d	5.00 ml	10-MAY-2011 12:40	1.000	CLH	4
1205		c3249d.d	5.00 ml	10-MAY-2011 12:40	1.000	CLH	4
1202		c3250.d	5.00 ml	10-MAY-2011 13:01	1.000	CLH	5
1206		c3250d.d	5.00 ml	10-MAY-2011 13:01	1.000	CLH	5
1203		c3251.d	5.00 ml	10-MAY-2011 13:24	1.000	CLH	6
1207		c3251d.d	5.00 ml	10-MAY-2011 13:24	1.000	CLH	6
1204		c3252.d	5.00 ml	10-MAY-2011 13:46	1.000	CLH	7
1208		c3252d.d	5.00 ml	10-MAY-2011 13:46	1.000	CLH	7
1205		c3253.d	5.00 ml	10-MAY-2011 14:07	1.000	CLH	8
1209		c3253d.d	5.00 ml	10-MAY-2011 14:07	1.000	CLH	8
BLANK		c3254.d	5.00 ml	10-MAY-2011 14:29	1.000	CLH	9
1600		c3255.d	5.00 ml	10-MAY-2011 15:02	1.000	CLH	10
1600		c3255d.d	5.00 ml	10-MAY-2011 15:02	1.000	CLH	10

TUNE TIME = 22:58 05-10-11

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 10-MAY-2011
Instrument: msv7.i
Analyst(s): CLH

Standard	Conc ppm		
BFB IS/SS	50	7-5-3	09/18/11
8260 IS/SS	50	6-99-2	05/21/11
8260	50	7-8-10	05/12/11
Ac/Ac/VA	250/50	7-8-9	08/30/11
8260 ICV	50	7-6-4	09/26/11
AC/AC/VA ICV	250/50	7-6-3	08/26/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		c3256.d	0.00 ml	10-MAY-2011 15:23	1.000	CLH	2
1400		c3257.d	5.00 ml	10-MAY-2011 16:12	1.000	CLH	12
945920		c3257L.d	5.00 ml	10-MAY-2011 16:12	1.000	CLH	12
945921		c3258.d	5.00 ml	10-MAY-2011 16:33	1.000	CLH	13
MB		c3259.d	5.00 ml	10-MAY-2011 16:54	1.000	CLH	14
945919		c3260.d	5.00 ml	10-MAY-2011 17:15	1.000	CLH	15
SMB		c3261.d	5.00 ml	10-MAY-2011 17:36	50.000	CLH	16
21105060810		c3262.d	5.00 ml	10-MAY-2011 17:58	1.000	CLH	17
21105060811		c3263.d	5.00 ml	10-MAY-2011 18:19	1.000	CLH	18
21105060812		c3264.d	5.00 ml	10-MAY-2011 18:41	1.000	CLH	19
BLANK		c3265.d	5.00 ml	10-MAY-2011 19:02	1.000	CLH	20
21105060814		c3266.d	5.00 ml	10-MAY-2011 19:23	1.000	CLH	21
21105101301		c3267.d	5.00 ml	10-MAY-2011 19:44	1.000	CLH	22
21105101302		c3268.d	5.00 ml	10-MAY-2011 20:05	1.000	CLH	23
21105101303		c3269.d	5.00 ml	10-MAY-2011 20:26	1.000	RJU	24
21105101304		c3270.d	5.00 ml	10-MAY-2011 20:47	1.000	RJU	25
21105101305		c3271.d	5.00 ml	10-MAY-2011 21:08	1.000	RJU	26
21105101306		c3272.d	5.00 ml	10-MAY-2011 21:29	1.000	RJU	27
21105101307		c3273.d	5.00 ml	10-MAY-2011 21:50	1.000	RJU	28
21105020320		c3274.d	5.00 ml	10-MAY-2011 22:11	1000.000	RJU	29
21105020321		c3275.d	5.00 ml	10-MAY-2011 22:32	200.000	RJU	30
21105020322		c3276.d	5.00 ml	10-MAY-2011 22:53	1000.000	RJU	31
21105020323		c3277.d	5.00 ml	10-MAY-2011 23:14	50.000	RJU	32
BLANK		c3278.d	5.00 ml	10-MAY-2011 23:35	1.000	RJU	33
21105041418		c3279.d	5.00 ml	10-MAY-2011 23:56	1.000	RJU	34
21105051307		c3280.d	5.00 ml	11-MAY-2011 00:17	1.000	RJU	35
BLANK		c3281.d	5.00 ml	11-MAY-2011 00:38	1.000	RJU	36
21105051322	RR @ 100X	c3282.d	5.00 ml	11-MAY-2011 00:59	200.000	RJU	37

TUNE = 03:23

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 01-MAY-2011
Instrument: msv11.i
Analyst(s): slr

Standard	Conc ppm		
BFB IS/SS	50	6-99-2	05/21/11
8260 IS/SS	50	6-99-2	05/21/11
APP9-1	50	7-2-4	06/30/11
APP9-1 ICV	50	7-3-1	07/31/11
8260	50	7-8-5	05/06/11
Ac/Ac/VA	250/50	7-8-6	05/30/11
2-CVE	50	7-7-5	10/06/11
8260 ICV	50	7-6-4	09/26/11
AC/AC/VA ICV	250/50	7-6-3	08/26/11
2-CVE ICV	50	7-1-6	07/23/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		b2228.d	0.00 ml	01-MAY-2011 10:46	1.000	SLR	2
1209	Not Used	b2229.d	5.00 ml	01-MAY-2011 11:27	1.000	JCK	27
1208		b2230.d	5.00 ml	01-MAY-2011 11:55	1.000	JCK	28
1201		b2231.d	5.00 ml	01-MAY-2011 12:17	1.000	JCK	29
1206		b2232.d	5.00 ml	01-MAY-2011 12:39	1.000	JCK	30
1202		b2233.d	5.00 ml	01-MAY-2011 13:01	1.000	JCK	31
1203		b2234.d	5.00 ml	01-MAY-2011 13:23	1.000	JCK	32
1204		b2235.d	5.00 ml	01-MAY-2011 13:51	1.000	JCK	33
1205		b2236.d	5.00 ml	01-MAY-2011 14:13	1.000	JCK	34
BLANK		b2237.d	5.00 ml	01-MAY-2011 14:35	1.000	JCK	35
1600		b2238.d	5.00 ml	01-MAY-2011 15:05	1.000	JCK	36
943076		b2239.d	5.00 ml	01-MAY-2011 15:27	1.000	JCK	1
943077		b2240.d	5.00 ml	01-MAY-2011 15:49	1.000	JCK	2
MB		b2241.d	5.00 ml	01-MAY-2011 16:11	1.000	JCK	3
943075		b2242.d	5.00 ml	01-MAY-2011 16:33	1.000	JCK	4
21104291301		b2243.d	5.00 ml	01-MAY-2011 16:55	1.000	JCK	5
21104291302		b2244.d	5.00 ml	01-MAY-2011 17:26	1.000	SLR	6
21104291101		b2245.d	5.00 ml	01-MAY-2011 17:49	1.000	SLR	7
21104291102		b2246.d	5.00 ml	01-MAY-2011 18:11	1.000	SLR	8
21104291103		b2247.d	5.00 ml	01-MAY-2011 18:33	1.000	SLR	9
21104291104		b2248.d	5.00 ml	01-MAY-2011 18:55	1.000	SLR	10
21104291105		b2249.d	5.00 ml	01-MAY-2011 19:17	1.000	SLR	11
21104291201		b2250.d	5.00 ml	01-MAY-2011 19:39	1.000	SLR	12
21104291202		b2251.d	5.00 ml	01-MAY-2011 20:01	1.000	SLR	13
21104291203		b2252.d	5.00 ml	01-MAY-2011 20:23	1.000	SLR	14
21104291801		b2253.d	5.00 ml	01-MAY-2011 20:52	1.000	SLR	15
21104291802		b2254.d	5.00 ml	01-MAY-2011 21:14	1.000	SLR	16
21104301301		b2255.d	5.00 ml	01-MAY-2011 21:35	1.000	SLR	17
21104301302	OOT	b2256.d	5.00 ml	01-MAY-2011 21:57	1.000	SLR	18

Tune Time - 21:46

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 09-MAY-2011
Instrument: msv11.i
Analyst(s): CLH

Standard	Conc ppm		
BFB IS/SS	50	6-99-2	05/21/11
8260 IS/SS	50	6-99-2	05/21/11
8260	50	7-9-8	05/19/11
Ac/Ac/VA	250/50	7-8-6	05/30/11
2-CVE	50	7-7-5	10/06/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		b2566.d	0.00 ml	09-MAY-2011 18:41	1.000	CLH	57
1400		b2567.d	5.00 ml	09-MAY-2011 19:27	1.000	CLH	1
945624		b2567L.d	5.00 ml	09-MAY-2011 19:27	1.000	CLH	1
945625		b2568.d	5.00 ml	09-MAY-2011 19:56	1.000	CLH	2
BLANK		b2569.d	5.00 ml	09-MAY-2011 20:45	1.000	CLH	3
945623		b2570.d	5.00 ml	09-MAY-2011 21:07	1.000	CLH	4
21105060801		b2571.d	5.00 ml	09-MAY-2011 21:36	1.000	CLH	5
21105060802		b2572.d	5.00 ml	09-MAY-2011 22:05	1.000	CLH	6
21105060803		b2573.d	5.00 ml	09-MAY-2011 22:27	1.000	CLH	7
21105060804		b2574.d	5.00 ml	09-MAY-2011 22:49	1.000	CLH	8
21105060805		b2575.d	5.00 ml	09-MAY-2011 23:11	1.000	CLH	9
21105060806		b2576.d	5.00 ml	09-MAY-2011 23:38	1.000	CLH	10
21105060807		b2577.d	5.00 ml	10-MAY-2011 00:01	1.000	CLH	11
21105060808		b2578.d	5.00 ml	10-MAY-2011 00:23	1.000	CLH	12
21105060809		b2579.d	5.00 ml	10-MAY-2011 00:45	1.000	CLH	13
21105020122	LRNO MSV12 5-5-11 G7126	b2580.d	5.00 ml	10-MAY-2011 01:07	1.000	CLH	14
BLANK		b2581.d	5.00 ml	10-MAY-2011 01:29	1.000	CLH	15
21105020320	RR 1000	b2582.d	5.00 ml	10-MAY-2011 01:51	500.000	CLH	16
21105020321	RR CO	b2583.d	5.00 ml	10-MAY-2011 02:13	200.000	CLH	17
21105020322	RR CO	b2584.d	5.00 ml	10-MAY-2011 02:35	1000.000	CLH	18
21105020323	CLEAN, RR 50X	b2585.d	5.00 ml	10-MAY-2011 02:57	1000.000	CLH	19
21105020324		b2586.d	5.00 ml	10-MAY-2011 03:19	1000.000	CLH	20
21105041301		b2587.d	5.00 ml	10-MAY-2011 03:41	100.000	CLH	21
21105041307		b2588.d	5.00 ml	10-MAY-2011 04:04	10.000	CLH	22
21105041310		b2589.d	5.00 ml	10-MAY-2011 04:26	20.000	CLH	23
21105041319		b2590.d	5.00 ml	10-MAY-2011 04:48	1.000	CLH	24
BLANK		b2591.d	5.00 ml	10-MAY-2011 05:10	1.000	CLH	25
21105041405	LRNO WITH FOLLOWING IF NEEDED	b2592.d	5.00 ml	10-MAY-2011 05:39	2.000	CLH	26
21105041405		b2593.d	5.00 ml	10-MAY-2011 06:01	1.000	CLH	26
BLANK		b2594.d	5.00 ml	10-MAY-2011 06:23	1.000	CLH	27

TUNE TIME = 06:41 05-10-11

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 11-MAY-2011
Instrument: msv11.i
Analyst(s): EDS

Standard	Conc ppm		
BFB IS/SS	50	7-9-5	11/01/11
8260 IS/SS	50	7-9-5	11/01/11
8260	50	7-9-8	05/19/11
Ac/Ac/VA	250/50	7-8-6	05/30/11
APP9-1	50	7-9-4	06/30/11

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		b2644.d	0.00 ml	11-MAY-2011 06:31	1.000	EDS	2
1000		b2644w.d	0.00 ml	11-MAY-2011 06:31	1.000	EDS	2
1400		b2645.d	5.00 ml	11-MAY-2011 07:12	1.000	EDS	2
945969		b2645L.d	5.00 ml	11-MAY-2011 07:12	1.000	EDS	2
1400		b2645w.d	5.00 ml	11-MAY-2011 07:12	1.000	EDS	2
946147		b2645wL.d	5.00 ml	11-MAY-2011 07:12	1.000	EDS	2
945970		b2646.d	5.00 ml	11-MAY-2011 07:57	1.000	EDS	3
946148		b2646w.d	5.00 ml	11-MAY-2011 07:57	1.000	EDS	3
MB		b2647.d	5.00 ml	11-MAY-2011 08:19	1.000	EDS	4
945968		b2648.d	5.00 ml	11-MAY-2011 08:41	1.000	EDS	5
946146		b2648w.d	5.00 ml	11-MAY-2011 08:41	1.000	EDS	5
21105101504		b2649.d	5.00 ml	11-MAY-2011 09:18	1.000	EDS	6
21105101505		b2650.d	5.00 ml	11-MAY-2011 09:40	1.000	EDS	7
21105101506		b2651.d	5.00 ml	11-MAY-2011 10:02	1.000	EDS	8
21105101507		b2652.d	5.00 ml	11-MAY-2011 10:30	1.000	EDS	9
21105060815		b2653.d	5.00 ml	11-MAY-2011 10:52	1.000	EDS	10
21105060816		b2654.d	5.00 ml	11-MAY-2011 11:15	1.000	EDS	11
21105060817		b2655.d	5.00 ml	11-MAY-2011 11:37	1.000	EDS	12
21105060818		b2656.d	5.00 ml	11-MAY-2011 12:06	1.000	EDS	13
21105060819		b2657.d	5.00 ml	11-MAY-2011 12:28	1.000	EDS	14
21105060820		b2658.d	5.00 ml	11-MAY-2011 12:50	1.000	EDS	15
21105111101		b2659.d	5.00 ml	11-MAY-2011 13:12	1.000	EDS	16
21105111102		b2660.d	5.00 ml	11-MAY-2011 13:42	1.000	EDS	17
21105111103		b2661.d	5.00 ml	11-MAY-2011 14:11	1.000	EDS	18
21104291301	LRNO MSV 11 5/1/11	b2662.d	5.00 ml	11-MAY-2011 14:41	2.000	EDS	19
21105111104		b2663.d	5.00 ml	11-MAY-2011 15:11	1.000	RJU	20
21105111105		b2664.d	5.00 ml	11-MAY-2011 15:41	1.000	RJU	21
21105051322		b2665.d	5.00 ml	11-MAY-2011 16:12	100.000	RJU	22
21105111503		b2666.d	5.00 ml	11-MAY-2011 16:42	1.000	RJU	23
21105111504		b2667.d	5.00 ml	11-MAY-2011 17:12	1.000	RJU	24
21105102201	RR @ 50,000X	b2668.d	5.00 ml	11-MAY-2011 17:42	100000.000	RJU	25
21105102201		b2669.d	5.00 ml	11-MAY-2011 18:04	50000.000	RJU	26

TUNE = 18:31

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 500 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

Sample ID: MAO2MW001D

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060801

Date Collected: 05/05/11 Time: 1223

Date Received: 05/06/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 0711

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18381

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.278	U	0.278	1.00
99-65-0	1,3-Dinitrobenzene	0.504	U	0.504	2.00
118-96-7	2,4,6-Trinitrotoluene	0.606	U	0.606	2.00
121-14-2	2,4-Dinitrotoluene	0.250	U	0.250	1.00
606-20-2	2,6-Dinitrotoluene	0.216	U	0.216	1.00
355-72-78-	2-Amino-4,6-dinitrotoluene	0.250	U	0.250	1.00
88-72-2	2-Nitrotoluene	0.178	U	0.178	1.00
99-08-1	3-Nitrotoluene	0.214	U	0.214	1.00
1946-51-0	4-Amino-2,6-dinitrotoluene	0.216	U	0.216	1.00
99-99-0	4-Nitrotoluene	0.232	U	0.232	1.00
2691-41-0	HMX	0.070	UQ	0.070	0.400
98-95-3	Nitrobenzene	0.272	U	0.272	1.00
121-82-4	RDX	0.132	U	0.132	0.400
479-45-8	Tetryl	0.400	U	0.400	1.00

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 980 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: M114MW004

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060802

Date Collected: 05/05/11 Time: 1516

Date Received: 05/06/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 0758

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18382

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.142	U	0.142	0.510
99-65-0	1,3-Dinitrobenzene	0.257	U	0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	0.309	U	0.309	1.02
121-14-2	2,4-Dinitrotoluene	0.128	U	0.128	0.510
606-20-2	2,6-Dinitrotoluene	0.110	U	0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	0.128	U	0.128	0.510
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.510
99-08-1	3-Nitrotoluene	0.109	U	0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110	U	0.110	0.510
99-99-0	4-Nitrotoluene	0.118	U	0.118	0.510
2691-41-0	HMX	0.036	UQ	0.036	0.204
98-95-3	Nitrobenzene	0.139	U	0.139	0.510
121-82-4	RDX	0.067	U	0.067	0.204
479-45-8	Tetryl	0.204	U	0.204	0.510

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 900 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: M114MW002

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060805

Date Collected: 05/06/11 Time: 1135

Date Received: 05/07/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 0845

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18383

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.154	U	0.154	0.556
99-65-0	1,3-Dinitrobenzene	0.280	U	0.280	1.11
118-96-7	2,4,6-Trinitrotoluene	0.337	U	0.337	1.11
121-14-2	2,4-Dinitrotoluene	0.139	U	0.139	0.556
606-20-2	2,6-Dinitrotoluene	0.120	U	0.120	0.556
355-72-78-	2-Amino-4,6-dinitrotoluene	0.139	U	0.139	0.556
88-72-2	2-Nitrotoluene	0.099	U	0.099	0.556
99-08-1	3-Nitrotoluene	0.119	U	0.119	0.556
1946-51-0	4-Amino-2,6-dinitrotoluene	0.120	U	0.120	0.556
99-99-0	4-Nitrotoluene	0.129	U	0.129	0.556
2691-41-0	HMX	0.039	UQ	0.039	0.222
98-95-3	Nitrobenzene	0.151	U	0.151	0.556
121-82-4	RDX	0.073	U	0.073	0.222
479-45-8	Tetryl	0.222	U	0.222	0.556

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 980 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

Sample ID: EB1

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060806

Date Collected: 05/06/11 Time: 1230

Date Received: 05/07/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 0932

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18384

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.142	U	0.142	0.510
99-65-0	1,3-Dinitrobenzene	0.257	U	0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	0.309	U	0.309	1.02
121-14-2	2,4-Dinitrotoluene	0.128	U	0.128	0.510
606-20-2	2,6-Dinitrotoluene	0.110	U	0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	0.128	U	0.128	0.510
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.510
99-08-1	3-Nitrotoluene	0.109	U	0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110	U	0.110	0.510
99-99-0	4-Nitrotoluene	0.118	U	0.118	0.510
2691-41-0	HMX	0.036	UQ	0.036	0.204
98-95-3	Nitrobenzene	0.139	U	0.139	0.510
121-82-4	RDX	0.067	U	0.067	0.204
479-45-8	Tetryl	0.204	U	0.204	0.510

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 970 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: M114MW003

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060807

Date Collected: 05/06/11 Time: 1430

Date Received: 05/07/11

Date Extracted: 05/11/11

Date Analyzed: 05/13/11 Time: 0244

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18406

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.143	U	0.143	0.515
99-65-0	1,3-Dinitrobenzene	0.260	U	0.260	1.03
118-96-7	2,4,6-Trinitrotoluene	0.312	U	0.312	1.03
121-14-2	2,4-Dinitrotoluene	0.129	U	0.129	0.515
606-20-2	2,6-Dinitrotoluene	0.111	U	0.111	0.515
355-72-78-	2-Amino-4,6-dinitrotoluene	0.129	U	0.129	0.515
88-72-2	2-Nitrotoluene	0.092	U	0.092	0.515
99-08-1	3-Nitrotoluene	0.110	U	0.110	0.515
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111	U	0.111	0.515
99-99-0	4-Nitrotoluene	0.120	U	0.120	0.515
2691-41-0	HMX	0.036	UQ	0.036	0.206
98-95-3	Nitrobenzene	0.140	U	0.140	0.515
121-82-4	RDX	0.068	U	0.068	0.206
479-45-8	Tetryl	0.206	U	0.206	0.515

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1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 950 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: MAO1MW001

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060810

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Extracted: 05/11/11

Date Analyzed: 05/13/11 Time: 0331

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18407

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.146	U	0.146	0.526
99-65-0	1,3-Dinitrobenzene	0.265	U	0.265	1.05
118-96-7	2,4,6-Trinitrotoluene	0.319	U	0.319	1.05
121-14-2	2,4-Dinitrotoluene	0.132	U	0.132	0.526
606-20-2	2,6-Dinitrotoluene	0.114	U	0.114	0.526
355-72-78-	2-Amino-4,6-dinitrotoluene	0.132	U	0.132	0.526
88-72-2	2-Nitrotoluene	0.094	U	0.094	0.526
99-08-1	3-Nitrotoluene	0.113	U	0.113	0.526
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114	U	0.114	0.526
99-99-0	4-Nitrotoluene	0.122	U	0.122	0.526
2691-41-0	HMX	0.037	UQ	0.037	0.211
98-95-3	Nitrobenzene	0.143	U	0.143	0.526
121-82-4	RDX	0.069	U	0.069	0.211
479-45-8	Tetryl	0.211	U	0.211	0.526

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 900 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

Sample ID: MAO1MW001-MS

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060811

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1153

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18387

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	3.24		0.154	0.556
99-65-0	1,3-Dinitrobenzene	3.54		0.280	1.11
118-96-7	2,4,6-Trinitrotoluene	3.45		0.337	1.11
121-14-2	2,4-Dinitrotoluene	3.40		0.139	0.556
606-20-2	2,6-Dinitrotoluene	3.53		0.120	0.556
355-72-78-	2-Amino-4,6-dinitrotoluene	3.36		0.139	0.556
88-72-2	2-Nitrotoluene	4.28		0.099	0.556
99-08-1	3-Nitrotoluene	3.60		0.119	0.556
1946-51-0	4-Amino-2,6-dinitrotoluene	3.28		0.120	0.556
99-99-0	4-Nitrotoluene	3.76		0.129	0.556
2691-41-0	HMX	2.79		0.039	0.222
98-95-3	Nitrobenzene	3.60		0.151	0.556
121-82-4	RDX	2.88		0.073	0.222
479-45-8	Tetryl	4.11		0.222	0.556

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 980 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: MAO1MW001-MSD

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060812

Date Collected: 05/09/11 Time: 1416

Date Received: 05/10/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1240

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18388

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	3.18		0.142	0.510
99-65-0	1,3-Dinitrobenzene	3.44		0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	3.33		0.309	1.02
121-14-2	2,4-Dinitrotoluene	3.28		0.128	0.510
606-20-2	2,6-Dinitrotoluene	3.43		0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	3.24		0.128	0.510
88-72-2	2-Nitrotoluene	4.09		0.091	0.510
99-08-1	3-Nitrotoluene	3.46		0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	3.21		0.110	0.510
99-99-0	4-Nitrotoluene	3.62		0.118	0.510
2691-41-0	HMX	2.71		0.036	0.204
98-95-3	Nitrobenzene	3.39		0.139	0.510
121-82-4	RDX	3.01		0.067	0.204
479-45-8	Tetryl	4.23		0.204	0.510

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 990 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

Sample ID: M114MW001

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060815

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1326

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18389

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	UQ	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 980 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: M114MW001-DUP

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060816

Date Collected: 05/09/11 Time: 0955

Date Received: 05/11/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1413

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18390

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.142	U	0.142	0.510
99-65-0	1,3-Dinitrobenzene	0.257	U	0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	0.309	U	0.309	1.02
121-14-2	2,4-Dinitrotoluene	0.128	U	0.128	0.510
606-20-2	2,6-Dinitrotoluene	0.110	U	0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	0.128	U	0.128	0.510
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.510
99-08-1	3-Nitrotoluene	0.109	U	0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110	U	0.110	0.510
99-99-0	4-Nitrotoluene	0.118	U	0.118	0.510
2691-41-0	HMX	0.036	UQ	0.036	0.204
98-95-3	Nitrobenzene	0.139	U	0.139	0.510
121-82-4	RDX	0.067	U	0.067	0.204
479-45-8	Tetryl	0.204	U	0.204	0.510

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1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 970 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: MAOMW004

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060818

Date Collected: 05/10/11 Time: 1111

Date Received: 05/11/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1547

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18392

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.143	U	0.143	0.515
99-65-0	1,3-Dinitrobenzene	0.260	U	0.260	1.03
118-96-7	2,4,6-Trinitrotoluene	0.312	U	0.312	1.03
121-14-2	2,4-Dinitrotoluene	0.129	U	0.129	0.515
606-20-2	2,6-Dinitrotoluene	0.111	U	0.111	0.515
355-72-78-	2-Amino-4,6-dinitrotoluene	0.129	U	0.129	0.515
88-72-2	2-Nitrotoluene	0.092	U	0.092	0.515
99-08-1	3-Nitrotoluene	0.110	U	0.110	0.515
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111	U	0.111	0.515
99-99-0	4-Nitrotoluene	0.120	U	0.120	0.515
2691-41-0	HMX	0.036	UQ	0.036	0.206
98-95-3	Nitrobenzene	0.140	U	0.140	0.515
121-82-4	RDX	0.068	U	0.068	0.206
479-45-8	Tetryl	0.206	U	0.206	0.515

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 950 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: MAOMW003

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105060819

Date Collected: 05/10/11 Time: 1320

Date Received: 05/11/11

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 1634

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18393

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.146	U	0.146	0.526
99-65-0	1,3-Dinitrobenzene	0.265	U	0.265	1.05
118-96-7	2,4,6-Trinitrotoluene	0.319	U	0.319	1.05
121-14-2	2,4-Dinitrotoluene	0.132	U	0.132	0.526
606-20-2	2,6-Dinitrotoluene	0.114	U	0.114	0.526
355-72-78-	2-Amino-4,6-dinitrotoluene	0.132	U	0.132	0.526
88-72-2	2-Nitrotoluene	0.094	U	0.094	0.526
99-08-1	3-Nitrotoluene	0.113	U	0.113	0.526
1946-51-0	4-Amino-2,6-dinitrotoluene	0.114	U	0.114	0.526
99-99-0	4-Nitrotoluene	0.122	U	0.122	0.526
2691-41-0	HMX	0.037	UQ	0.037	0.211
98-95-3	Nitrobenzene	0.143	U	0.143	0.526
121-82-4	RDX	0.069	U	0.069	0.211
479-45-8	Tetryl	0.211	U	0.211	0.526

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 980 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 456405 Analytical Batch: 456789

CONCENTRATION UNITS: ug/L

Sample ID: MAO1MW002

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 21105170901

Date Collected: 05/16/11 Time: 0935

Date Received: 05/17/11

Date Extracted: 05/18/11

Date Analyzed: 05/20/11 Time: 1655

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110520/a18555

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.142	U	0.142	0.510
99-65-0	1,3-Dinitrobenzene	0.257	U	0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	0.309	U	0.309	1.02
121-14-2	2,4-Dinitrotoluene	0.128	U	0.128	0.510
606-20-2	2,6-Dinitrotoluene	0.110	U	0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	0.128	U	0.128	0.510
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.510
99-08-1	3-Nitrotoluene	0.109	U	0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110	U	0.110	0.510
99-99-0	4-Nitrotoluene	0.118	U	0.118	0.510
2691-41-0	HMX	0.036	UQ	0.036	0.204
98-95-3	Nitrobenzene	0.139	U	0.139	0.510
121-82-4	RDX	0.067	U	0.067	0.204
479-45-8	Tetryl	0.204	U	0.204	0.510

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ23

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211050608

Sample wt/vol: 980 | Units: mL | Lab Sample ID: 21105170902

Level: (low/med) LOW | Date Collected: 05/16/11 | Time: 1110

% Moisture: | decanted: (Y/N) | Date Received: 05/17/11

GC Column: | ID: | (mm) | Date Extracted: 05/18/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 05/20/11 | Time: 1742

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: RLY

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 456405 | Analytical Batch: 456789 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2110520/a18556

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.142	U	0.142	0.510
99-65-0	1,3-Dinitrobenzene	0.257	U	0.257	1.02
118-96-7	2,4,6-Trinitrotoluene	0.309	U	0.309	1.02
121-14-2	2,4-Dinitrotoluene	0.128	U	0.128	0.510
606-20-2	2,6-Dinitrotoluene	0.110	U	0.110	0.510
355-72-78-	2-Amino-4,6-dinitrotoluene	0.128	U	0.128	0.510
88-72-2	2-Nitrotoluene	0.091	U	0.091	0.510
99-08-1	3-Nitrotoluene	0.109	U	0.109	0.510
1946-51-0	4-Amino-2,6-dinitrotoluene	0.110	U	0.110	0.510
99-99-0	4-Nitrotoluene	0.118	U	0.118	0.510
2691-41-0	HMX	0.036	UQ	0.036	0.204
98-95-3	Nitrobenzene	0.139	U	0.139	0.510
121-82-4	RDX	0.067	U	0.067	0.204
479-45-8	Tetryl	0.204	U	0.204	0.510

211050608 489

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 455907 Analytical Batch: 456236

CONCENTRATION UNITS: ug/L

Sample ID: MB945242

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 945242

Date Collected: Time:

Date Received:

Date Extracted: 05/11/11

Date Analyzed: 05/12/11 Time: 0450

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110511/a18378

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
2691-41-0	HMX	0.035	U	0.035	0.200
121-82-4	RDX	0.066	U	0.066	0.200
99-35-4	1,3,5-Trinitrobenzene	0.139	U	0.139	0.500
99-65-0	1,3-Dinitrobenzene	0.252	U	0.252	1.00
479-45-8	Tetryl	0.200	U	0.200	0.500
98-95-3	Nitrobenzene	0.136	U	0.136	0.500
118-96-7	2,4,6-Trinitrotoluene	0.303	U	0.303	1.00
1946-51-0	4-Amino-2,6-dinitrotoluene	0.108	U	0.108	0.500
355-72-78-	2-Amino-4,6-dinitrotoluene	0.125	U	0.125	0.500
121-14-2	2,4-Dinitrotoluene	0.125	U	0.125	0.500
606-20-2	2,6-Dinitrotoluene	0.108	U	0.108	0.500
88-72-2	2-Nitrotoluene	0.089	U	0.089	0.500
99-08-1	3-Nitrotoluene	0.107	U	0.107	0.500
99-99-0	4-Nitrotoluene	0.116	U	0.116	0.500

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 456405 Analytical Batch: 456789

CONCENTRATION UNITS: ug/L

Sample ID: MB947522

Contract:

SAS No.: SDG No.: 211050608

Lab Sample ID: 947522

Date Collected: Time:

Date Received:

Date Extracted: 05/18/11

Date Analyzed: 05/20/11 Time: 1301

Dilution Factor: 1 Analyst: RLY

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2110520/a18550

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
2691-41-0	HMX	0.035	U	0.035	0.200
121-82-4	RDX	0.066	U	0.066	0.200
99-35-4	1,3,5-Trinitrobenzene	0.139	U	0.139	0.500
99-65-0	1,3-Dinitrobenzene	0.252	U	0.252	1.00
479-45-8	Tetryl	0.200	U	0.200	0.500
98-95-3	Nitrobenzene	0.136	U	0.136	0.500
118-96-7	2,4,6-Trinitrotoluene	0.303	U	0.303	1.00
1946-51-0	4-Amino-2,6-dinitrotoluene	0.108	U	0.108	0.500
355-72-78-	2-Amino-4,6-dinitrotoluene	0.125	U	0.125	0.500
121-14-2	2,4-Dinitrotoluene	0.125	U	0.125	0.500
606-20-2	2,6-Dinitrotoluene	0.108	U	0.108	0.500
88-72-2	2-Nitrotoluene	0.089	U	0.089	0.500
99-08-1	3-Nitrotoluene	0.107	U	0.107	0.500
99-99-0	4-Nitrotoluene	0.116	U	0.116	0.500

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW846 8330

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1.	MAO2MW001D	70	70	130														0
2.	M114MW004	80	70	130														0
3.	M114MW002	79	70	130														0
4.	EB1	120	70	130														0
5.	M114MW003	82	70	130														0
6.	MAO1MW001	92	70	130														0
7.	MAO1MW001-MS	81	70	130														0
8.	MAO1MW001-MSD	83	70	130														0
9.	M114MW001	89	70	130														0
10.	M114MW001-DUP	91	70	130														0
11.	MAOMW004	93	70	130														0
12.	MAOMW003	82	70	130														0
13.	MAO1MW002	96	70	130														0
14.	MWQ23	94	70	130														0
15.	MB945242	95	70	130														0
16.	LCS945243	93	70	130														0
17.	LCSD945244	99	70	130														0
18.	MB947522	110	70	130														0
19.	LCS947523	112	70	130														0
20.	LCSD947524	109	70	130														0

SMC 1 : 1,2-Dinitrobenzene SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: MAO1MW001

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Contract: Method: SW846 8330

Prep Batch: 455907 Analytical Batch: 456236

SAMPLE NO : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*MS % REC FLAG*	*QC. LIMITS*
1,3,5-Trinitrobenzene	ug/L	2.22	0	3.24	146	*	65 - 140
1,3-Dinitrobenzene	ug/L	2.22	0	3.54	159		45 - 160
2,4,6-Trinitrotoluene	ug/L	2.22	0	3.45	155	*	50 - 145
2,4-Dinitrotoluene	ug/L	2.22	0	3.4	153	*	60 - 135
2,6-Dinitrotoluene	ug/L	2.22	0	3.53	159	*	60 - 135
2-Amino-4,6-dinitrotoluene	ug/L	2.22	0	3.36	151		50 - 155
2-Nitrotoluene	ug/L	2.22	0	4.28	193	*	45 - 135
3-Nitrotoluene	ug/L	2.22	0	3.6	162	*	50 - 130
4-Amino-2,6-dinitrotoluene	ug/L	2.22	0	3.28	148		55 - 155
4-Nitrotoluene	ug/L	2.22	0	3.76	169	*	50 - 130
HMX	ug/L	2.22	0	2.79	126	*	80 - 115
Nitrobenzene	ug/L	2.22	0	3.6	162	*	50 - 140
RDX	ug/L	2.22	0	2.88	130		50 - 160
Tetryl	ug/L	2.22	0	4.11	185	*	20 - 175

SAMPLE NO : 21105060812

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1,3,5-Trinitrobenzene	ug/L	2.04	3.18	156	*	2		65 - 140	0 - 30
1,3-Dinitrobenzene	ug/L	2.04	3.44	169	*	3		45 - 160	0 - 30
2,4,6-Trinitrotoluene	ug/L	2.04	3.33	163	*	4		50 - 145	0 - 30
2,4-Dinitrotoluene	ug/L	2.04	3.28	161	*	4		60 - 135	0 - 30
2,6-Dinitrotoluene	ug/L	2.04	3.43	168	*	3		60 - 135	0 - 30
2-Amino-4,6-dinitrotoluene	ug/L	2.04	3.24	159	*	4		50 - 155	0 - 30
2-Nitrotoluene	ug/L	2.04	4.09	200	*	5		45 - 135	0 - 30
3-Nitrotoluene	ug/L	2.04	3.46	170	*	4		50 - 130	0 - 30
4-Amino-2,6-dinitrotoluene	ug/L	2.04	3.21	157	*	2		55 - 155	0 - 30
4-Nitrotoluene	ug/L	2.04	3.62	177	*	4		50 - 130	0 - 30
HMX	ug/L	2.04	2.71	133	*	3		80 - 115	0 - 30
Nitrobenzene	ug/L	2.04	3.39	166	*	6		50 - 140	0 - 30
RDX	ug/L	2.04	3.01	147		4		50 - 160	0 - 30
Tetryl	ug/L	2.04	4.23	207	*	3		20 - 175	0 - 30

RPD : 0 out of 14 outside limits

Spike Recovery: 23 out of 28 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Contract: Method: SW846 8330

Prep Batch: 455907 Analytical Batch: 456236

SAMPLE NO : 945243

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1,3,5-Trinitrobenzene	ug/L	2	0	1.31	66		65 - 140
1,3-Dinitrobenzene	ug/L	2	0	1.38	69		45 - 160
2,4,6-Trinitrotoluene	ug/L	2	0	1.32	66		50 - 145
2,4-Dinitrotoluene	ug/L	2	0	1.29	65		60 - 135
2,6-Dinitrotoluene	ug/L	2	0	1.39	70		60 - 135
2-Amino-4,6-dinitrotoluene	ug/L	2	0	1.32	66		50 - 155
2-Nitrotoluene	ug/L	2	0	1.49	75		45 - 135
3-Nitrotoluene	ug/L	2	0	1.18	59		50 - 130
4-Amino-2,6-dinitrotoluene	ug/L	2	0	1.3	65		55 - 155
4-Nitrotoluene	ug/L	2	0	1.31	66		50 - 130
HMX	ug/L	2	0	1.4	70	*	80 - 115
Nitrobenzene	ug/L	2	0	1.42	71		50 - 140
RDX	ug/L	2	0	1.1	55		50 - 160
Tetryl	ug/L	2	0	1.89	95		20 - 175

SAMPLE NO : 945244

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1,3,5-Trinitrobenzene	ug/L	2	1.55	78		17		65 - 140	0 - 30
1,3-Dinitrobenzene	ug/L	2	1.62	81		16		45 - 160	0 - 30
2,4,6-Trinitrotoluene	ug/L	2	1.56	78		17		50 - 145	0 - 30
2,4-Dinitrotoluene	ug/L	2	1.56	78		19		60 - 135	0 - 30
2,6-Dinitrotoluene	ug/L	2	1.7	85		20		60 - 135	0 - 30
2-Amino-4,6-dinitrotoluene	ug/L	2	1.53	77		15		50 - 155	0 - 30
2-Nitrotoluene	ug/L	2	1.78	89		18		45 - 135	0 - 30
3-Nitrotoluene	ug/L	2	1.52	76		25		50 - 130	0 - 30
4-Amino-2,6-dinitrotoluene	ug/L	2	1.45	73		11		55 - 155	0 - 30
4-Nitrotoluene	ug/L	2	1.56	78		17		50 - 130	0 - 30
HMX	ug/L	2	1.5	75	*	7		80 - 115	0 - 30
Nitrobenzene	ug/L	2	1.65	83		15		50 - 140	0 - 30
RDX	ug/L	2	1.23	62		11		50 - 160	0 - 30
Tetryl	ug/L	2	2.12	106		11		20 - 175	0 - 30

RPD : 0 out of 14 outside limits

Spike Recovery: 2 out of 28 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Contract: Method: SW846 8330

Prep Batch: 456405 Analytical Batch: 456789

SAMPLE NO : 947523

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1,3,5-Trinitrobenzene	ug/L	2	0	1.66	83		65 - 140
1,3-Dinitrobenzene	ug/L	2	0	1.76	88		45 - 160
2,4,6-Trinitrotoluene	ug/L	2	0	1.62	81		50 - 145
2,4-Dinitrotoluene	ug/L	2	0	1.71	86		60 - 135
2,6-Dinitrotoluene	ug/L	2	0	1.9	95		60 - 135
2-Amino-4,6-dinitrotoluene	ug/L	2	0	1.57	79		50 - 155
2-Nitrotoluene	ug/L	2	0	2.01	101		45 - 135
3-Nitrotoluene	ug/L	2	0	1.69	85		50 - 130
4-Amino-2,6-dinitrotoluene	ug/L	2	0	1.59	80		55 - 155
4-Nitrotoluene	ug/L	2	0	1.77	89		50 - 130
HMX	ug/L	2	0	1.54	77	*	80 - 115
Nitrobenzene	ug/L	2	0	1.71	86		50 - 140
RDX	ug/L	2	0	1.34	67		50 - 160
Tetryl	ug/L	2	0	2.3	115		20 - 175

SAMPLE NO : 947524

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1,3,5-Trinitrobenzene	ug/L	2	1.63	82		2		65 - 140	0 - 30
1,3-Dinitrobenzene	ug/L	2	1.7	85		3		45 - 160	0 - 30
2,4,6-Trinitrotoluene	ug/L	2	1.57	79		3		50 - 145	0 - 30
2,4-Dinitrotoluene	ug/L	2	1.6	80		7		60 - 135	0 - 30
2,6-Dinitrotoluene	ug/L	2	1.76	88		8		60 - 135	0 - 30
2-Amino-4,6-dinitrotoluene	ug/L	2	1.56	78		.6		50 - 155	0 - 30
2-Nitrotoluene	ug/L	2	1.99	100		1		45 - 135	0 - 30
3-Nitrotoluene	ug/L	2	1.64	82		3		50 - 130	0 - 30
4-Amino-2,6-dinitrotoluene	ug/L	2	1.51	76		5		55 - 155	0 - 30
4-Nitrotoluene	ug/L	2	1.74	87		2		50 - 130	0 - 30
HMX	ug/L	2	1.5	75	*	3		80 - 115	0 - 30
Nitrobenzene	ug/L	2	1.66	83		3		50 - 140	0 - 30
RDX	ug/L	2	1.29	65		4		50 - 160	0 - 30
Tetryl	ug/L	2	2.29	115		.4		20 - 175	0 - 30

RPD : 0 out of 14 outside limits

Spike Recovery: 2 out of 28 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL | Sample ID: MB945242

Lab Code: LA024 | Case No.: | Contract:

Lab Sample ID: 945242 | SAS No.: | SDG No.: 211050608

Matrix: Water | Sulfur Cleanup: (Y/N) N | Date Extracted: 05/11/11

Date Analyzed (1): 05/12/11 | Time (1): 0450 | Date Analyzed (2): | Time (2):

Instrument ID (1): HPLC 2 | Instrument ID (2):

GC Column (1): | ID: (mm) | GC Column (2): | ID: (mm)

Method: SW846 8330 | Prep Batch: 455907 | Analytical Batch: 456236

Lab File ID: 2110511/a18378

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	LCS945243	945243	05/12/11	0537	HPLC2
2.	LCSD945244	945244	05/12/11	0624	HPLC2
3.	MAO2MW001D	21105060801	05/12/11	0711	HPLC2
4.	M114MW004	21105060802	05/12/11	0758	HPLC2
5.	M114MW002	21105060805	05/12/11	0845	HPLC2
6.	EB1	21105060806	05/12/11	0932	HPLC2
7.	MAO1MW001-MS	21105060811	05/12/11	1153	HPLC2
8.	MAO1MW001-MSD	21105060812	05/12/11	1240	HPLC2
9.	M114MW001	21105060815	05/12/11	1326	HPLC2
10.	M114MW001-DUP	21105060816	05/12/11	1413	HPLC2
11.	MAOMW004	21105060818	05/12/11	1547	HPLC2
12.	MAOMW003	21105060819	05/12/11	1634	HPLC2
13.	M114MW003	21105060807	05/13/11	0244	HPLC2
14.	MAO1MW001	21105060810	05/13/11	0331	HPLC2

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL
Sample ID: MB947522

Lab Code: LA024 Case No.:
Contract:

Lab Sample ID: 947522
SAS No.: SDG No.: 211050608

Matrix: Water Sulfur Cleanup: (Y/N) N
Date Extracted: 05/18/11

Date Analyzed (1): 05/20/11 Time (1): 1301
Date Analyzed (2): Time (2):

Instrument ID (1): HPLC 2
Instrument ID (2):

GC Column (1): ID: (mm)
GC Column (2): ID: (mm)

Method: SW846 8330
Prep Batch: 456405 Analytical Batch: 456789

Lab File ID: 2110520/a18550

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	LCS947523	947523	05/20/11	1348	HPLC2
2.	LCSD947524	947524	05/20/11	1435	HPLC2
3.	MAO1MW002	21105170901	05/20/11	1655	HPLC2
4.	MWQ23	21105170902	05/20/11	1742	HPLC2

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2007 11:57
End Cal Date : 11-MAY-2011 22:36
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc2.i/2110511.b/lc18-8330C.m
Cal Date : 13-May-2011 17:19 rly

Calibration File Names:
Level 1: /var/chem/hplc2.i/2110511.b/a18370.d
Level 2: /var/chem/hplc2.i/2110511.b/a18369.d
Level 3: /var/chem/hplc2.i/2110511.b/a18368.d
Level 4: /var/chem/hplc2.i/2110511.b/a18367.d
Level 5: /var/chem/hplc2.i/2110511.b/a18366.d
Level 6: /var/chem/hplc2.i/2110511.b/a18365.d

	20	50	100	200	500	1000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
1 HMX	219	219	212	210	258	228	AVRG		224		7.96301
2 RDX	50.05000	58.22000	59.12000	60.59000	61.84200	+++++	AVRG		57.96440		7.99792
3 1,3,5-TNB	338	324	322	318	400	330	AVRG		339		9.16021
5 1,3-DNB	354	350	344	349	350	349	AVRG		349		0.85619
6 Tetryl	149	169	166	175	181	180	AVRG		170		6.88360
7 Nitrobenzene	137	134	138	141	142	144	AVRG		139		2.74541
8 2,4,6-TNT	233	262	257	259	267	271	AVRG		258		5.20708
9 4-Am-DNT	243	238	236	238	247	254	AVRG		243		2.75913
10 2-Am-DNT	223	218	228	231	228	235	AVRG		227		2.55651
11 2,6-DNT	240	178	195	186	188	185	AVRG		195		11.53542
12 2,4-DNT	316	271	287	279	279	281	AVRG		285		5.59909
13 2-NT	128	125	108	106	114	115	AVRG		116		7.65762
14 4-NT	138	150	152	146	153	156	AVRG		149		4.20600
15 3-NT	5611	8260	17734	33455	87254	177260	LINR	0.74524	177		0.99957

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2007 11:57
End Cal Date : 11-MAY-2011 22:36
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc2.i/2110511.b/lc18-8330C.m
Cal Date : 13-May-2011 17:19 rly

Compound	20 Level 1	50 Level 2	100 Level 3	200 Level 4	500 Level 5	1000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 4 1,2-Dinitrobenzene	143	144	143	145	149	155	AVRG		146		3.39480

2110511b 8330C

Data File: /var/chem/hplc2.i/2110511.b/a18371.d
Report Date: 06-Jun-2011 12:10

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv
Level: LOW
Data Type: LC DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /var/chem/hplc2.i/2110511.b/lc18-8330C.m
Misc Info:

Client SDG: 2110511
Fraction: OTHER
Client Smp ID: icv
Operator: rly
SampleType: LCS
Quant Type: ESTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	HMX	400	267	66.74*	80-120
2	RDX	400	374	93.46	80-120
3	1,3,5-TNB	400	352	88.00	80-120
5	1,3-DNB	400	374	93.49	80-120
7	Nitrobenzene	400	345	86.23	80-120
6	Tetryl	400	435	108.69	80-120
8	2,4,6-TNT	400	379	94.70	80-120
9	4-Am-DNT	400	401	100.36	80-120
10	2-Am-DNT	400	371	92.86	80-120
11	2,6-DNT	400	369	92.33	80-120
12	2,4-DNT	400	356	89.00	80-120
13	2-NT	400	443	110.82	80-120
14	4-NT	400	390	97.56	80-120
15	3-NT	400	380	94.95	80-120

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4	1,2-Dinitrobenzene	200	0.00	*	0-140

Data File: /var/chem/hplc2.i/2110511.b/a18377.d
Report Date: 12-May-2011 18:00

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18377.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110511.b/lc18-8330C.m

Injection Date: 12-MAY-2011 04:03
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	224	218	218	0.010	2.67754	15.00000	Averaged	
2 RDX	57.96440	58.38000	58.38000	0.010	-0.71699	15.00000	Averaged	
3 1,3,5-TNB	339	326	326	0.010	3.76746	15.00000	Averaged	
$ 4 1,2-Dinitrobenzene	146	147	147	0.010	-0.76619	15.00000	Averaged	
5 1,3-DNB	349	352	352	0.010	-0.61670	15.00000	Averaged	
6 Tetryl	170	168	168	0.010	1.20433	15.00000	Averaged	
7 Nitrobenzene	139	141	141	0.010	-1.31179	15.00000	Averaged	
8 2,4,6-TNT	251	265	265	0.010	-5.76983	15.00000	Averaged	
9 4-Am-DNT	243	250	250	0.010	-2.97501	15.00000	Averaged	
10 2-Am-DNT	227	231	231	0.010	-1.66720	15.00000	Averaged	
11 2,6-DNT	195	184	184	0.010	5.71714	15.00000	Averaged	
12 2,4-DNT	285	274	274	0.010	3.86761	15.00000	Averaged	
13 2-NT	116	130	130	0.010	-11.78811	15.00000	Averaged	
14 4-NT	149	149	149	0.010	0.20718	15.00000	Averaged	
15 3-NT	187	200	165	0.010	6.32378	0.000e+00	Linear	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 3.29179
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc2.i/2110511.b/a18391.d
Report Date: 12-May-2011 18:05

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18391.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110511.b/lc18-8330C.m

Injection Date: 12-MAY-2011 15:00
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	224	223	223	0.010	0.38416	15.00000	Averaged	
2 RDX	57.96440	60.87000	60.87000	0.010	-5.01273	15.00000	Averaged	
3 1,3,5-TNB	339	330	330	0.010	2.60385	15.00000	Averaged	
$ 4 1,2-Dinitrobenzene	146	144	144	0.010	1.91189	15.00000	Averaged	
5 1,3-DNB	349	358	358	0.010	-2.52391	15.00000	Averaged	
6 Tetryl	170	155	155	0.010	8.98171	15.00000	Averaged	
7 Nitrobenzene	139	144	144	0.010	-3.55072	15.00000	Averaged	
8 2,4,6-TNT	251	287	287	0.010	-14.42916	15.00000	Averaged	
9 4-Am-DNT	243	250	250	0.010	-3.12955	15.00000	Averaged	
10 2-Am-DNT	227	236	236	0.010	-3.86573	15.00000	Averaged	
11 2,6-DNT	195	191	191	0.010	2.45622	15.00000	Averaged	
12 2,4-DNT	285	287	287	0.010	-0.60782	15.00000	Averaged	
13 2-NT	116	128	128	0.010	-10.66398	15.00000	Averaged	
14 4-NT	149	146	146	0.010	2.30695	15.00000	Averaged	
15 3-NT	190	200	167	0.010	5.15773	0.000e+00	Linear	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 4.50574
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18400.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110511.b/lc18-8330C.m

Injection Date: 12-MAY-2011 22:03
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	224	225	225	0.010	-0.15297	15.00000	Averaged
2 RDX	57.96440	59.56000	59.56000	0.010	-2.75272	15.00000	Averaged
3 1,3,5-TNB	339	335	335	0.010	1.19954	15.00000	Averaged
$ 4 1,2-Dinitrobenzene	146	168	168	0.010	-14.61433	15.00000	Averaged
5 1,3-DNB	349	359	359	0.010	-2.67414	15.00000	Averaged
6 Tetryl	170	150	150	0.010	12.11500	15.00000	Averaged
7 Nitrobenzene	139	141	141	0.010	-0.84893	15.00000	Averaged
8 2,4,6-TNT	258	294	294	0.010	-13.85145	15.00000	Averaged
9 4-Am-DNT	243	250	250	0.010	-3.16045	15.00000	Averaged
10 2-Am-DNT	227	236	236	0.010	-3.75349	15.00000	Averaged
11 2,6-DNT	195	197	197	0.010	-0.60521	15.00000	Averaged
12 2,4-DNT	285	292	292	0.010	-2.24975	15.00000	Averaged
13 2-NT	116	130	130	0.010	-11.70197	15.00000	Averaged
14 4-NT	149	146	146	0.010	2.23316	15.00000	Averaged
15 3-NT	176	200	155	0.010	12.06628	0.000e+00	Linear <-

Average %D / Drift Results.

Calculated Average %D/Drift = 5.59863
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc2.i/2110511.b/a18408.d
Report Date: 13-May-2011 17:15

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18408.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110511.b/lc18-8330C.m

Injection Date: 13-MAY-2011 04:18
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	224	223	223	0.010	0.39753	15.00000	Averaged	
2 RDX	57.96440	58.79500	58.79500	0.010	-1.43295	15.00000	Averaged	
3 1,3,5-TNB	339	333	333	0.010	1.66617	15.00000	Averaged	
$ 4 1,2-Dinitrobenzene	146	138	138	0.010	5.99733	15.00000	Averaged	
5 1,3-DNB	349	359	359	0.010	-2.61834	15.00000	Averaged	
6 Tetryl	170	148	148	0.010	12.94976	15.00000	Averaged	
7 Nitrobenzene	139	140	140	0.010	-0.80228	15.00000	Averaged	
8 2,4,6-TNT	258	292	292	0.010	-13.11612	15.00000	Averaged	
9 4-Am-DNT	243	251	251	0.010	-3.55606	15.00000	Averaged	
10 2-Am-DNT	227	235	235	0.010	-3.52462	15.00000	Averaged	
11 2,6-DNT	195	196	196	0.010	-0.01185	15.00000	Averaged	
12 2,4-DNT	285	286	286	0.010	-0.09790	15.00000	Averaged	
13 2-NT	116	127	127	0.010	-9.41495	15.00000	Averaged	
14 4-NT	149	142	142	0.010	4.88974	15.00000	Averaged	
15 3-NT	185	200	163	0.010	7.32851	0.000e+00	Linear	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 4.52027
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc2.i/2110520.b/a18549.d
Report Date: 22-May-2011 11:58

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18549.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110520.b/lc18-8330C.m

Injection Date: 20-MAY-2011 11:58
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	224	198	198	0.010	11.67942	15.00000	Averaged
2 RDX	57.96440	52.54000	52.54000	0.010	9.35816	15.00000	Averaged
3 1,3,5-TNB	339	288	288	0.010	14.88524	15.00000	Averaged
$ 4 1,2-Dinitrobenzene	146	131	131	0.010	10.63615	15.00000	Averaged
5 1,3-DNB	349	315	315	0.010	9.84501	15.00000	Averaged
6 Tetryl	170	185	185	0.010	-8.79810	15.00000	Averaged
7 Nitrobenzene	139	128	128	0.010	8.30056	15.00000	Averaged
8 2,4,6 TNT	258	236	236	0.010	8.77139	15.00000	Averaged
9 4-Am-DNT	243	215	215	0.010	11.48315	15.00000	Averaged
10 2-Am-DNT	227	207	207	0.010	9.02175	15.00000	Averaged
11 2,6-DNT	195	188	188	0.010	4.09052	15.00000	Averaged
12 2,4-DNT	285	259	259	0.010	9.37691	15.00000	Averaged
13 2-NT	116	103	103	0.010	11.31032	15.00000	Averaged
14 4-NT	149	128	128	0.010	13.84228	15.00000	Averaged
15 3-NT	173	200	153	0.010	13.27478	0.000e+00	Linear<-

Average %D / Drift Results.

Calculated Average %D/Drift = 10.31158
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc2.i/2110520.b/a18554.d
Report Date: 20-May-2011 16:20

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18554.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110520.b/lc18-8330C.m

Injection Date: 20-MAY-2011 16:08
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	224	199	199	0.010	11.31614	15.00000	Averaged	
2 RDX	57.96440	54.56000	54.56000	0.010	5.87326	15.00000	Averaged	
3 1,3,5-TNB	339	293	293	0.010	13.32145	15.00000	Averaged	
$ 4 1,2-Dinitrobenzene	146	134	134	0.010	8.46704	15.00000	Averaged	
5 1,3-DNB	349	316	316	0.010	9.64756	15.00000	Averaged	
6 Tetryl	170	183	183	0.010	-7.61944	15.00000	Averaged	
7 Nitrobenzene	139	125	125	0.010	9.99770	15.00000	Averaged	
8 2,4,6-TNT	258	221	221	0.010	14.35792	15.00000	Averaged	
9 4-Am-DNT	243	215	215	0.010	11.33274	15.00000	Averaged	
10 2-Am-DNT	227	208	208	0.010	8.39895	15.00000	Averaged	
11 2,6-DNT	195	168	168	0.010	14.19810	15.00000	Averaged	
12 2,4-DNT	285	251	251	0.010	11.95282	15.00000	Averaged	
13 2-NT	116	117	117	0.010	-1.11106	15.00000	Averaged	
14 4-NT	149	129	129	0.010	13.34585	15.00000	Averaged	
15 3-NT	171	200	150	0.010	14.48328	0.000e+00	Linear	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 10.36155
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc2.i/2110520.b/a18562.d
Report Date: 22-May-2011 11:12

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i
Lab File ID: a18562.d
Analysis Type: WATER
Lab Sample ID: 200
Method: /var/chem/hplc2.i/2110520.b/lc18-8330C.m

Injection Date: 20-MAY-2011 22:24
Init. Cal. Date(s): 23-FEB-2007 11-MAY-2011
Init. Cal. Times: 11:57 22:36
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF200	CCAL RRF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	224	198	198	0.010	11.75966	15.00000	Averaged
2 RDX	57.96440	54.84000	54.84000	0.010	5.39021	15.00000	Averaged
3 1,3,5-TNB	339	293	293	0.010	13.52671	15.00000	Averaged
$ 4 1,2-Dinitrobenzene	146	134	134	0.010	8.69590	15.00000	Averaged
5 1,3-DNB	349	315	315	0.010	9.80351	15.00000	Averaged
6 Tetryl	170	178	178	0.010	-4.68896	15.00000	Averaged
7 Nitrobenzene	139	127	127	0.010	8.97153	15.00000	Averaged
8 2,4,6 TNT	258	227	227	0.010	12.32610	15.00000	Averaged
9 4-Am-DNT	243	220	220	0.010	9.47628	15.00000	Averaged
10 2-Am-DNT	227	205	205	0.010	9.85143	15.00000	Averaged
11 2,6-DNT	195	169	169	0.010	13.47686	15.00000	Averaged
12 2,4-DNT	285	253	253	0.010	11.17830	15.00000	Averaged
13 2-NT	116	120	120	0.010	-3.06213	15.00000	Averaged
14 4-NT	149	133	133	0.010	10.99451	15.00000	Averaged
15 3-NT	178	200	156	0.010	11.23986	0.000e+00	Linear <-

Average %D / Drift Results.

Calculated Average %D/Drift = 9.62946
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

8330 SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 1200	Start: 5/11/11 End: 1540	BATCH NO:	455907
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	SAMPLE TYPE	COMMENT	METHOD
1	QC ACCOUNT	MB for HBN 455907 [EXTO/28420]	945242	1000	10.0		MB		WATER BATCH SONICATION NA
2	QC ACCOUNT	LCS for HBN 455907 [EXTO/28420	945243	1000	10.0		LCS		
3	QC ACCOUNT	LCSD for HBN 455907 [EXTO/2842	945244	1000	10.0		LCSD		SEA SAND NA
4	4747	MA02MW001D	21105060801	500	10.0		SAMPLE		
5	4747	M114MW004	21105060802	980	10.0		SAMPLE		ACETONITILE LOT# 101702
6	4747	M114MW002	21105060805	900	10.0		SAMPLE		
7	4747	EB1	21105060806	980	10.0		EQBK		CALCIUM CHLORIDE LOT# 507-15
8	4747	M114MW003	21105060807	970	10.0		SAMPLE		
9	4747	MA01MW001	21105060810	950	10.0		SAMPLE		FLORISIL CLEANUP 3620 NA
10	4747	MA01MW001-MS	21105060811	900	10.0		MS	DO spike	
11	4747	MA01MW001-MSD	21105060812	980	10.0		MSD		Speed Vac Rozwi3
12	4747	M114MW001	21105060815	990	10.0		SAMPLE		
13	4747	M114MW001-DUP	21105060816	980	10.0		FLDDUP		
14	4747	MAOMW004	21105060818	990	10.0		SAMPLE		
15	4747	MAOMW003	21105060819	950	10.0		SAMPLE		
16	4747	MW-94-62-02	21105101302	980	10.0		SAMPLE		
17	4747	MW-94-62-05	21105101303	970	10.0		SAMPLE		
18	4747	MW-94-62-04	21105101304	900	10.0		SAMPLE		
19	4747	MW-94-62-01-D	21105101305	960	10.0		EQBK		
20	4747	MW-94-62-01	21105101306	970	10.0		SAMPLE		
21	4747	MW-94-62-01-A	21105101307	980	10.0		FLDDUP		
22									
23									
24									
25									
26									
27									
28									

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA TEMP: NA

8330 ID	507-10-4	8330 SPIKE ID	507-7-3		TECHNICIAN	DATE
VOLUME	500 ul		500 ul			5-11-11
CONCENTRATION	4.0 ug/ml		4.0 ug/ml			
ACID					SUPERVISOR	DATE
SPIKE WITNESS	BD4					5/11/11

Revision 3, 10/04/2010

2110506068 199

8330 SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 0900	Start: 5/18/11	End: 14:00	BATCH NO:	456405	
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐		LEVEL:	LOW ☑ MEDIUM ☐	

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	SAMPLE TYPE	COMMENT	METHOD
1	QC ACCOUNT	MB for HBN 456405 [EXTO/28480]	947522	1000	~~20~~ 10		MB		WATER BATCH SONICATION
2	QC ACCOUNT	LCS for HBN 456405 [EXTO/28480	947523	1000	~~20~~ 10		LCS		NA
3	QC ACCOUNT	LCSD for HBN 456405 [EXTO/2848	947524	1000	~~20~~ 10		LCSD		SEA SAND
4	4747	MW-94-62-03	21105130602	990	~~20~~ 10		SAMPLE		NA
5			21105170901	980	~~20~~ 10				ACETONITILE LOT#
6			21105170902	980	~~20~~ 10				101702
7									CALCIUM CHLORIDE LOT# 507-55
8									
9									FLORISIL CLEANUP/3620
10									Spud Date
11									K 02/13
12									
13									
14									
15									
16									
17									
18									
19									
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21									
22									
23									
24									
25									
26									
27									
28									

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA TEMP: NA

8330 ID	507-10-4	8330 SPIKE ID	507-72			TECHNICIAN	DATE
VOLUME	0.5 mL		0.5mL			BDH	5-18-11
CONCENTRATION	4.0 ug/mL		4.0 ug/mL				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	DWB						5-18-11

Revision 3, 10/04/2010

* FV=10 mL

21105060 200

LABORATORY CHRONICLE: HPLC DEPARTMENT

Date: 11-MAY-2011
Instrument: hplc2.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
104951		a18364.d	1000.00 ml	11-MAY-2011 17:55	1.000	rly	1	all
1000		a18365.d	1000.00 ml	11-MAY-2011 18:42	1.000	rly	1	all
500		a18366.d	1000.00 ml	11-MAY-2011 19:28	1.000	rly	1	all
200		a18367.d	1000.00 ml	11-MAY-2011 20:15	1.000	rly	1	all
100		a18368.d	1000.00 ml	11-MAY-2011 21:02	1.000	rly	1	all
50		a18369.d	1000.00 ml	11-MAY-2011 21:49	1.000	rly	1	all
20		a18370.d	1000.00 ml	11-MAY-2011 22:36	1.000	rly	1	all
icv		a18371.d	1000.00 ml	11-MAY-2011 23:22	1.000	rly	1	all
surr		a18372.d	1000.00 ml	12-MAY-2011 00:09	1.000	rly	1	all
945459		a18373.d	2.00 ml	12-MAY-2011 00:56	10.000	rly	1	all
945460		a18374.d	2.00 ml	12-MAY-2011 01:43	10.000	rly	1	all
945461		a18375.d	2.00 ml	12-MAY-2011 02:30	10.000	rly	1	all
21104203522		a18376.d	2.00 ml	12-MAY-2011 03:16	10.000	rly	1	all
200		a18377.d	1000.00 ml	12-MAY-2011 04:03	1.000	rly	1	all
945242		a18378.d	1000.00 ml	12-MAY-2011 04:50	1.000	rly	1	all
945243		a18379.d	1000.00 ml	12-MAY-2011 05:37	1.000	rly	1	all
945244		a18380.d	1000.00 ml	12-MAY-2011 06:24	1.000	rly	1	all
21105060801		a18381.d	500.00 ml	12-MAY-2011 07:11	1.000	rly	1	all
21105060802		a18382.d	980.00 ml	12-MAY-2011 07:58	1.000	rly	1	all
21105060805		a18383.d	900.00 ml	12-MAY-2011 08:45	1.000	rly	1	all
21105060806		a18384.d	980.00 ml	12-MAY-2011 09:32	1.000	rly	1	all
21105060807		a18385.d	970.00 ml	12-MAY-2011 10:19	1.000	rly	1	all
21105060810		a18386.d	950.00 ml	12-MAY-2011 11:06	1.000	rly	1	all
21105060811		a18387.d	900.00 ml	12-MAY-2011 11:53	1.000	rly	1	all
21105060812		a18388.d	980.00 ml	12-MAY-2011 12:40	1.000	rly	1	all
21105060815		a18389.d	990.00 ml	12-MAY-2011 13:26	1.000	rly	1	all
21105060816		a18390.d	980.00 ml	12-MAY-2011 14:13	1.000	rly	1	all
200		a18391.d	1000.00 ml	12-MAY-2011 15:00	1.000	rly	1	all
21105060818		a18392.d	970.00 ml	12-MAY-2011 15:47	1.000	rly	1	all
21105060819		a18393.d	950.00 ml	12-MAY-2011 16:34	1.000	rly	1	all
21105101302		a18394.d	980.00 ml	12-MAY-2011 17:21	1.000	rly	1	all
21105101303		a18395.d	970.00 ml	12-MAY-2011 18:08	1.000	rly	1	all
21105101304		a18396.d	900.00 ml	12-MAY-2011 18:55	1.000	rly	1	all
21105101305		a18397.d	950.00 ml	12-MAY-2011 19:42	1.000	rly	1	all
21105101306		a18398.d	970.00 ml	12-MAY-2011 20:29	1.000	rly	1	all
21105101307		a18399.d	980.00 ml	12-MAY-2011 21:16	1.000	rly	1	all

LABORATORY CHRONICLE: HPLC DEPARTMENT

Date: 11-MAY-2011
Instrument: hplc2.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions:_____

MISC: _____

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
200		a18400.d	1000.00 ml	12-MAY-2011 22:03	1.000	rly	1	all
945459		a18401.d	2.00 ml	12-MAY-2011 22:50	1.000	rly	1	all
945460		a18402.d	2.00 ml	12-MAY-2011 23:37	1.000	rly	1	all
945461		a18403.d	2.00 ml	13-MAY-2011 00:24	1.000	rly	1	all
21104203522		a18404.d	2.00 ml	13-MAY-2011 01:11	1.000	rly	1	all
21104203522		a18405.d	2.00 ml	13-MAY-2011 01:57	10.000	rly	1	all
21105060807		a18406.d	970.00 ml	13-MAY-2011 02:44	1.000	rly	1	all
21105060810		a18407.d	950.00 ml	13-MAY-2011 03:31	1.000	rly	1	all
200		a18408.d	1000.00 ml	13-MAY-2011 04:18	1.000	rly	1	all
sol blk		a18409.d	1000.00 ml	13-MAY-2011 05:05	1.000	rly	1	all
sol blk		a18410.d	2.00 ml	13-MAY-2011 05:52	1.000	rly	1	all

LABORATORY CHRONICLE: HPLC DEPARTMENT

Date: 20-MAY-2011
Instrument: hplc2.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
sol blk		a18547.d	2.00 ml	20-MAY-2011 10:21	1.000	rly	1	all
200		a18548.d	1000.00 ml	20-MAY-2011 11:08	1.000	rly	1	all
200		a18549.d	1000.00 ml	20-MAY-2011 11:58	1.000	rly	1	all
947522		a18550.d	1000.00 ml	20-MAY-2011 13:01	1.000	rly	1	all
947523		a18551.d	1000.00 ml	20-MAY-2011 13:48	1.000	rly	1	all
947524		a18552.d	1000.00 ml	20-MAY-2011 14:35	1.000	rly	1	all
21105130602		a18553.d	990.00 ml	20-MAY-2011 15:22	1.000	rly	1	all
200		a18554.d	1000.00 ml	20-MAY-2011 16:08	1.000	rly	1	all
21105170901		a18555.d	980.00 ml	20-MAY-2011 16:55	1.000	rly	1	all
21105170902		a18556.d	980.00 ml	20-MAY-2011 17:42	1.000	rly	1	all
945460		a18557.d	2.00 ml	20-MAY-2011 18:29	1.000	rly	1	all
945461		a18558.d	2.00 ml	20-MAY-2011 19:16	1.000	rly	1	all
945242		a18559.d	1000.00 ml	20-MAY-2011 20:03	1.000	rly	1	all
945243		a18560.d	1000.00 ml	20-MAY-2011 20:50	1.000	rly	1	all
945244		a18561.d	1000.00 ml	20-MAY-2011 21:37	1.000	rly	1	all
200		a18562.d	1000.00 ml	20-MAY-2011 22:24	1.000	rly	1	all
sol blk		a18563.d	1000.00 ml	20-MAY-2011 23:11	1.000	rly	1	all

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

SOW No.:

EPA Sample No.	*Lab Sample ID.*
MAO2MW001D	21105060801
M114MW004	21105060802
M114MW002	21105060805
EB1	21105060806
M114MW003	21105060807
MAO1MW001	21105060810
MAO1MW001-MS	21105060811
MAO1MW001-MSD	21105060812
M114MW001	21105060815
M114MW001-DUP	21105060816
MAOMW004	21105060818
MAOMW003	21105060819
MAO1MW002	21105170901
MWQ23	21105170902
MAO2MW001D	21105060801
M114MW004	21105060802
M114MW002	21105060805
EB1	21105060806
M114MW003	21105060807
MAO1MW001	21105060810
MAO1MW001-MS	21105060811
MAO1MW001-MSD	21105060812
M114MW001	21105060815
M114MW001-DUP	21105060816
MAOMW004	21105060818

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

SOW No.:

EPA Sample No.	*Lab Sample ID.*
MAOMW003	21105060819
MAO1MW002	21105170901
MWQ23	21105170902

Were ICP interelement corrections applied ?	Yes / No	YES
Were ICP background corrections applied ?	Yes / No	YES
If yes-were raw data generated before application of background corrections ?	Yes / No	NO

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO2MW001D

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060801

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 1223

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	79.6	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	19.8	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	127000	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.52	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	2.52	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	226	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	71800	ug/L		50.0	100	SW-846 6010C	P
Manganese	248	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	18.1	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.31	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	10400	ug/L		100	500	SW-846 6010C	P
Selenium	94.7	ug/L		4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	1930000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	69.9	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	129	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO2MW001D

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060801

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 1223

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	5.99	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	12.7	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	127000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.46	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.46	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	116	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	73500	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	208	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	17.5	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	1.44	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10300	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	107	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	1910000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	66.2	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	128	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060802

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 1516

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	23.8	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.35	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	326000	ug/L		50.0	100	SW-846 6010C	P
Chromium	5.33	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	5.33	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	36.9	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	285000	ug/L		50.0	100	SW-846 6010C	P
Manganese	5.27	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	12.5	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	20300	ug/L		100	500	SW-846 6010C	P
Selenium	19.6	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2260000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	74.9	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	655	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060802

Date Received: 05/06/11 | Time: 0910 | Date Collected: 05/05/11 | Time: 1516

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.59	ug/L	B	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	4.01	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	17.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.90	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	338000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	4.02	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	4.02	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	35.2	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	295000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	3.11	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	13.0	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	20600	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	18.9	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2240000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	68.9	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	653	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060805

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1135

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	78.8	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	23.9	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	252000	ug/L		50.0	100	SW-846 6010C	P
Chromium	8.55	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	8.55	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	29.8	ug/L		1.37	10.0	SW-846 6010C	P
Iron	160	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	238000	ug/L		50.0	100	SW-846 6010C	P
Manganese	9.22	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	20.5	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	27.0	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	18200	ug/L		100	500	SW-846 6010C	P
Selenium	20.0	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2040000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	81.0	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	175	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060805

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1135

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	17.5	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.69	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	257000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	5.75	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	5.75	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	25.1	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	244000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	20.5	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	26.2	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	18200	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	21.8	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2020000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	74.3	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	163	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060806

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1230

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	9.49	ug/L	B	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	81.2	ug/L	B	50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	5.31	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	ug/L	U	50.0	100	SW-846 6010C	P
Manganese	3.46	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	166	ug/L	B	100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	200	ug/L	U	200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	3.75	ug/L	U	3.75	20.0	SW-846 6010C	P
Zinc	7.09	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060806

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1230

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	199	ug/L	B	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.57	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	3.53	ug/L	B	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.25	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	547	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	10.3	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	50.0	ug/L	U	50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	142	ug/L	B	100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	200	ug/L	U	200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	3.75	ug/L	U	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	10.3	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060807

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	63.6	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	20.9	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	342000	ug/L		50.0	100	SW-846 6010C	P
Chromium	6.04	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	6.04	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	23.7	ug/L		1.37	10.0	SW-846 6010C	P
Iron	130	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	270000	ug/L		50.0	100	SW-846 6010C	P
Manganese	7.83	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	8.07	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	19800	ug/L		100	500	SW-846 6010C	P
Selenium	30.7	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2620000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	79.7	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	17.5	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060807

Date Received: 05/07/11 | Time: 0857 | Date Collected: 05/06/11 | Time: 1430

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	67.3	ug/L	B	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	14.6	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.81	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	342000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	3.89	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	3.89	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	22.0	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	271000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	8.48	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	19700	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	31.5	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2550000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	76.2	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	14.2	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060810

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	276	ug/L		60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	27.8	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	49700	ug/L		50.0	100	SW-846 6010C	P
Chromium	8.54	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	8.54	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	14.3	ug/L		1.37	10.0	SW-846 6010C	P
Iron	204	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	48700	ug/L		50.0	100	SW-846 6010C	P
Manganese	12.6	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	4.94	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	2.96	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	7780	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	567000	ug/L		1000	5000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	3.16	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	61.1	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	2.74	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060810

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	105	ug/L	B	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	18.0	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	50800	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.24	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	2.24	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	13.4	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	46.6	ug/L	B	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	50100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.16	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	5.66	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	7880	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	588000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.53	ug/L	B	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	58.3	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060811

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	5230	ug/L		60.0	200	SW-846 6010C	P
Antimony	515	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	517	ug/L		2.53	10.0	SW-846 6010C	P
Barium	513	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	496	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	483	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	54200	ug/L		50.0	100	SW-846 6010C	P
Chromium	483	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	496	ug/L		1.00	10.0	SW-846 6010C	P
Copper	517	ug/L		1.37	10.0	SW-846 6010C	P
Iron	5090	ug/L		40.0	100	SW-846 6010C	P
Lead	484	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	53100	ug/L		50.0	100	SW-846 6010C	P
Manganese	503	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	4.78	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	513	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	494	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	18000	ug/L		100	500	SW-846 6010C	P
Selenium	511	ug/L		4.34	40.0	SW-846 6010C	P
Silver	492	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	594000	ug/L		1000	5000	SW-846 6010C	P
Thallium	478	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	491	ug/L		1.20	100	SW-846 6010C	P
Vanadium	562	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	507	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060811

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	5040	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	535	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	552	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	524	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	522	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	511	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	56100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	498	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	512	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	535	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	5030	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	501	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	54200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	515	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.66	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	526	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	507	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	18200	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	540	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	518	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	620000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	498	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	507	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	581	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	532	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060812

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	5210	ug/L		60.0	200	SW-846 6010C	P
Antimony	508	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	508	ug/L		2.53	10.0	SW-846 6010C	P
Barium	515	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	498	ug/L		0.11	5.00	SW-846 6010C	P
Cadmium	484	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	54700	ug/L		50.0	100	SW-846 6010C	P
Chromium	485	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	488	ug/L		1.00	10.0	SW-846 6010C	P
Copper	519	ug/L		1.37	10.0	SW-846 6010C	P
Iron	5010	ug/L		40.0	100	SW-846 6010C	P
Lead	478	ug/L		1.39	15.0	SW-846 6010C	P
Magnesium	52100	ug/L		50.0	100	SW-846 6010C	P
Manganese	504	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	4.80	ug/L		0.081	0.20	SW-846 7470A	AV
Molybdenum	509	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	487	ug/L		0.96	40.0	SW-846 6010C	P
Potassium	17800	ug/L		100	500	SW-846 6010C	P
Selenium	499	ug/L		4.34	40.0	SW-846 6010C	P
Silver	494	ug/L		0.60	10.0	SW-846 6010C	P
Sodium	594000	ug/L		1000	5000	SW-846 6010C	P
Thallium	470	ug/L		1.75	20.0	SW-846 6010C	P
Titanium	495	ug/L		1.20	100	SW-846 6010C	P
Vanadium	563	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	509	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW001-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060812

Date Received: 05/10/11 | Time: 0850 | Date Collected: 05/09/11 | Time: 1416

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4850	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	518	ug/L		4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	518	ug/L		2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	496	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	495	ug/L		0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	483	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	54000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	474	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	490	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	509	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4870	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	478	ug/L		1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	53200	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	488	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.80	ug/L		0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	510	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	486	ug/L		0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	17800	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	514	ug/L		4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	491	ug/L		0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	585000	ug/L		1000	5000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	477	ug/L		1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	486	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	553	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	506	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060815

Date Received: 05/11/11 | Time: 0725 | Date Collected: 05/09/11 | Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	23.7	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.31	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	269000	ug/L		50.0	100	SW-846 6010C	P
Chromium	7.48	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	7.48	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	22.5	ug/L		1.37	10.0	SW-846 6010C	P
Iron	79.9	ug/L	B	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	239000	ug/L		50.0	100	SW-846 6010C	P
Manganese	4.10	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	16.9	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	19.7	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	18500	ug/L		100	500	SW-846 6010C	P
Selenium	31.1	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	1960000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	75.3	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	47.2	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060815

Date Received: 05/11/11 | Time: 0725 | Date Collected: 05/09/11 | Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	77.6	ug/L	B	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.74	ug/L	B	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	18.7	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.88	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	280000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	5.00	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	5.00	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	21.0	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	250000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	17.9	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	19.1	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	19300	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	28.8	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2020000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	73.5	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	46.8	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001-DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060816

Date Received: 05/11/11 | Time: 0725 | Date Collected: 05/09/11 | Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	64.5	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	25.3	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.30	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	276000	ug/L		50.0	100	SW-846 6010C	P
Chromium	7.87	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	7.87	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	22.8	ug/L		1.37	10.0	SW-846 6010C	P
Iron	91.3	ug/L	B	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	244000	ug/L		50.0	100	SW-846 6010C	P
Manganese	4.33	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	17.6	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	20.7	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	19400	ug/L		100	500	SW-846 6010C	P
Selenium	27.2	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	2060000	ug/L		5000	25000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	76.3	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	50.5	ug/L		2.72	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001-DUP

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060816

Date Received: 05/11/11 | Time: 0725 | Date Collected: 05/09/11 | Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	18.8	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.83	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	278000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	5.16	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	5.16	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	20.5	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	248000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	18.2	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	19.6	ug/L	B	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	19400	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	26.8	ug/L	B	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2040000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	72.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	46.9	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAOMW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060818

Date Received: 05/11/11 | Time: 0845 | Date Collected: 05/10/11 | Time: 1111

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	30.7	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	38200	ug/L		50.0	100	SW-846 6010C	P
Chromium	5.09	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	87.7	ug/L		1.37	10.0	SW-846 6010C	P
Iron	176	ug/L		40.0	100	SW-846 6010C	P
Lead	2.30	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	36600	ug/L		50.0	100	SW-846 6010C	P
Manganese	6.88	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	7.31	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	2.29	ug/L	B	0.96	40.0	SW-846 6010C	P
Potassium	6610	ug/L		100	500	SW-846 6010C	P
Selenium	4.44	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	308000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	58.8	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	22.3	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAOMW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060818

Date Received: 05/11/11 | Time: 0845 | Date Collected: 05/10/11 | Time: 1111

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	23.7	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	36800	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.30	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	23.0	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	35000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.26	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	6.27	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	6400	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	297000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	56.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	9.80	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAOMW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060819

Date Received: 05/11/11 | Time: 0845 | Date Collected: 05/10/11 | Time: 1320

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	111	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	28.8	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	63100	ug/L		50.0	100	SW-846 6010C	P
Chromium	4.46	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	44.0	ug/L		1.37	10.0	SW-846 6010C	P
Iron	116	ug/L		40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	63400	ug/L		50.0	100	SW-846 6010C	P
Manganese	7.94	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	4.39	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	8970	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	469000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	68.2	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	13.4	ug/L	B	2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAOMW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105060819

Date Received: 05/11/11 | Time: 0845 | Date Collected: 05/10/11 | Time: 1320

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	20.2	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	59600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.19	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	17.7	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	60300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	4.09	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	8430	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	458000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	65.5	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	4.16	ug/L	B	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105170901

Date Received: 05/17/11 | Time: 0900 | Date Collected: 05/16/11 | Time: 0935

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	102	ug/L		4.03	60.0	SW-846 6010C	P
Arsenic	2.53	ug/L	U	2.53	10.0	SW-846 6010C	P
Barium	17.6	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	35100	ug/L		50.0	100	SW-846 6010C	P
Chromium	3.05	ug/L	B	1.00	10.0	SW-846 6010C	P
Chromium (III)	3.05	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	11.0	ug/L		1.37	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	1.39	ug/L	U	1.39	15.0	SW-846 6010C	P
Magnesium	34200	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.76	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	7.44	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	6860	ug/L		100	500	SW-846 6010C	P
Selenium	5.87	ug/L	B	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	491000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	50.8	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	20.1	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MAO1MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105170901

Date Received: 05/17/11 | Time: 0900 | Date Collected: 05/16/11 | Time: 0935

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	164	ug/L	B	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	16.5	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	37400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.09	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	2.09	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	11.6	ug/L		1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	36700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	8.79	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	7280	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	527000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	53.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	2.72	ug/L	U	2.72	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ23

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105170902

Date Received: 05/17/11 | Time: 0900 | Date Collected: 05/16/11 | Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	4.03	ug/L	U	4.03	60.0	SW-846 6010C	P
Arsenic	3.23	ug/L	B	2.53	10.0	SW-846 6010C	P
Barium	13.3	ug/L		0.11	10.0	SW-846 6010C	P
Beryllium	0.11	ug/L	U	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	13600	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Chromium (III)	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	4.95	ug/L	B	1.37	10.0	SW-846 6010C	P
Iron	43.8	ug/L	B	40.0	100	SW-846 6010C	P
Lead	1.92	ug/L	B	1.39	15.0	SW-846 6010C	P
Magnesium	9350	ug/L		50.0	100	SW-846 6010C	P
Manganese	66.8	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.081	ug/L	U	0.081	0.20	SW-846 7470A	AV
Molybdenum	31.9	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.96	ug/L	U	0.96	40.0	SW-846 6010C	P
Potassium	2520	ug/L		100	500	SW-846 6010C	P
Selenium	4.34	ug/L	U	4.34	40.0	SW-846 6010C	P
Silver	0.60	ug/L	U	0.60	10.0	SW-846 6010C	P
Sodium	451000	ug/L		200	1000	SW-846 6010C	P
Thallium	1.75	ug/L	U	1.75	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	16.1	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	24.7	ug/L		2.72	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ23

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211050608

Level: (low / med) | % Solids: | Lab Sample ID: 21105170902

Date Received: 05/17/11 | Time: 0900 | Date Collected: 05/16/11 | Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	4.03	ug/L	U	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	2.53	ug/L	U	2.53	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	11.9	ug/L		0.11	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.11	ug/L	U	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	14400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Chromium (III) (Dissolve	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	5.49	ug/L	B	1.37	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	1.39	ug/L	U	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	9750	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	70.1	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.081	ug/L	U	0.081	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	34.0	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.96	ug/L	U	0.96	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	2680	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.34	ug/L	U	4.34	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.60	ug/L	U	0.60	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	489000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	1.75	ug/L	U	1.75	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	16.5	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	25.0	ug/L		2.72	20.0	SW-846 6010C Dissolved	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-82-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/20/11 Time: 1430

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	10.0	10.5	105	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/20/11 Time: 1453

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	1.00	1.02	102	mg/L	SW-846 6010C	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/20/11 Time: 1530

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	20.8	104	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/20/11 Time: 2133

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	21.2	106	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/20/11 Time: 2301

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	20.7	104	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 05/21/11 Time: 0030

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	21.0	105	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-82-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1144

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.80	98	mg/L	SW-846 6010C	P
Antimony	1.00	0.9571	96	mg/L	SW-846 6010C	P
Arsenic	1.00	0.9784	98	mg/L	SW-846 6010C	P
Barium	1.00	1.03	103	mg/L	SW-846 6010C	P
Beryllium	1.00	0.9698	97	mg/L	SW-846 6010C	P
Boron	5.00	4.85	97	mg/L	SW-846 6010C	P
Cadmium	1.00	0.9565	96	mg/L	SW-846 6010C	P
Calcium	10.0	9.71	97	mg/L	SW-846 6010C	P
Chromium	1.00	0.9856	99	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9436	94	mg/L	SW-846 6010C	P
Copper	1.00	0.9509	95	mg/L	SW-846 6010C	P
Iron	10.0	9.83	98	mg/L	SW-846 6010C	P
Lead	1.00	0.9747	97	mg/L	SW-846 6010C	P
Lithium	1.00	0.9938	99	mg/L	SW-846 6010C	P
Magnesium	10.0	9.73	97	mg/L	SW-846 6010C	P
Manganese	1.00	0.9706	97	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9516	95	mg/L	SW-846 6010C	P
Nickel	1.00	0.9664	97	mg/L	SW-846 6010C	P
Potassium	10.0	9.92	99	mg/L	SW-846 6010C	P
Selenium	1.00	0.9579	96	mg/L	SW-846 6010C	P
Silver	1.00	1.04	104	mg/L	SW-846 6010C	P
Sodium	10.0	9.93	99	mg/L	SW-846 6010C	P
Strontium	1.00	0.9754	98	mg/L	SW-846 6010C	P
Thallium	1.00	0.9771	98	mg/L	SW-846 6010C	P
Tin	1.00	1.03	103	mg/L	SW-846 6010C	P
Titanium	1.00	0.9725	97	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9525	95	mg/L	SW-846 6010C	P
Zinc	1.00	0.9313	93	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1207

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.2028	101	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0556	93	mg/L	SW-846 6010C	P
Arsenic	0.0100	0.00930	93	mg/L	SW-846 6010C	P
Barium	0.0100	0.00960	96	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00460	93	mg/L	SW-846 6010C	P
Boron	0.500	0.4691	94	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00450	89	mg/L	SW-846 6010C	P
Calcium	0.100	0.1281	128	mg/L	SW-846 6010C	P
Chromium	0.0100	0.0101	101	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.00940	94	mg/L	SW-846 6010C	P
Copper	0.0100	0.00990	99	mg/L	SW-846 6010C	P
Iron	0.100	0.0936	94	mg/L	SW-846 6010C	P
Lead	0.0150	0.0146	97	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0497	99	mg/L	SW-846 6010C	P
Magnesium	0.100	0.0834	83	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0153	102	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0480	96	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0380	95	mg/L	SW-846 6010C	P
Potassium	0.500	0.4723	94	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0379	95	mg/L	SW-846 6010C	P
Silver	0.0100	0.00960	96	mg/L	SW-846 6010C	P
Sodium	1.00	1.01	101	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0486	97	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0100	100	mg/L	SW-846 6010C	P
Tin	0.100	0.0967	97	mg/L	SW-846 6010C	P
Titanium	0.100	0.0957	96	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0194	97	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0193	96	mg/L	SW-846 6010C	P
Zirconium	0.0100	0.00760	76	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1213

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	0.0500	0.0449	90	mg/L	SW-846 6010C	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1236

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.09	102	mg/L	SW-846 6010C	P
Antimony	0.500	0.4881	98	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4998	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Boron	2.50	2.48	99	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4957	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.05	101	mg/L	SW-846 6010C	P
Chromium	0.500	0.5017	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.5012	100	mg/L	SW-846 6010C	P
Copper	0.500	0.4973	99	mg/L	SW-846 6010C	P
Iron	5.00	5.10	102	mg/L	SW-846 6010C	P
Lead	0.500	0.502	100	mg/L	SW-846 6010C	P
Lithium	0.500	0.5205	104	mg/L	SW-846 6010C	P
Magnesium	5.00	5.05	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4994	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.5001	100	mg/L	SW-846 6010C	P
Nickel	0.500	0.5021	100	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.5005	100	mg/L	SW-846 6010C	P
Silicon	5.00	5.10	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4991	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.6	103	mg/L	SW-846 6010C	P
Strontium	0.500	0.5007	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.5062	101	mg/L	SW-846 6010C	P
Tin	0.500	0.4988	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4947	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4939	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4981	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1725

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4847	97	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4935	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4971	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4946	99	mg/L	SW-846 6010C	P
Boron	2.50	2.46	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4922	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.23	105	mg/L	SW-846 6010C	P
Chromium	0.500	0.4978	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4923	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4972	99	mg/L	SW-846 6010C	P
Iron	5.00	4.99	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4965	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Magnesium	5.00	4.97	99	mg/L	SW-846 6010C	P
Manganese	0.500	0.4995	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4958	99	mg/L	SW-846 6010C	P
Nickel	0.500	0.4942	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4946	99	mg/L	SW-846 6010C	P
Silicon	5.00	5.11	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4968	99	mg/L	SW-846 6010C	P
Sodium	20.0	21.4	107	mg/L	SW-846 6010C	P
Strontium	0.500	0.502	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4967	99	mg/L	SW-846 6010C	P
Tin	0.500	0.5164	103	mg/L	SW-846 6010C	P
Titanium	0.500	0.4964	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4928	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4925	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4958	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 1847

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.00	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4837	97	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4891	98	mg/L	SW-846 6010C	P
Barium	0.500	0.4949	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4937	99	mg/L	SW-846 6010C	P
Boron	2.50	2.51	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4906	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.16	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4972	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4945	99	mg/L	SW-846 6010C	P
Copper	0.500	0.4975	100	mg/L	SW-846 6010C	P
Iron	5.00	4.93	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4938	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.5324	106	mg/L	SW-846 6010C	P
Magnesium	5.00	4.90	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4974	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4944	99	mg/L	SW-846 6010C	P
Nickel	0.500	0.4961	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4921	98	mg/L	SW-846 6010C	P
Silicon	5.00	5.06	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4954	99	mg/L	SW-846 6010C	P
Sodium	20.0	26.8	134	mg/L	SW-846 6010C	P
Strontium	0.500	0.501	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4969	99	mg/L	SW-846 6010C	P
Tin	0.500	0.5147	103	mg/L	SW-846 6010C	P
Titanium	0.500	0.496	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4931	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4921	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4914	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 2011

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.98	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4787	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4757	95	mg/L	SW-846 6010C	P
Barium	0.500	0.4931	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4927	99	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4858	97	mg/L	SW-846 6010C	P
Calcium	5.00	5.14	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4876	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4992	100	mg/L	SW-846 6010C	P
Iron	5.00	4.93	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4864	97	mg/L	SW-846 6010C	P
Lithium	0.500	0.5301	106	mg/L	SW-846 6010C	P
Magnesium	5.00	4.88	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4969	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4898	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4951	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4832	97	mg/L	SW-846 6010C	P
Silicon	5.00	5.05	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4955	99	mg/L	SW-846 6010C	P
Sodium	20.0	22.2	111	mg/L	SW-846 6010C	P
Strontium	0.500	0.5027	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.4874	97	mg/L	SW-846 6010C	P
Tin	0.500	0.5049	101	mg/L	SW-846 6010C	P
Titanium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4919	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4894	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4936	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 2133

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4758	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4696	94	mg/L	SW-846 6010C	P
Barium	0.500	0.4927	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4925	98	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4856	97	mg/L	SW-846 6010C	P
Calcium	5.00	5.15	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.498	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4836	97	mg/L	SW-846 6010C	P
Copper	0.500	0.5008	100	mg/L	SW-846 6010C	P
Iron	5.00	4.94	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4808	96	mg/L	SW-846 6010C	P
Lithium	0.500	0.5434	109	mg/L	SW-846 6010C	P
Magnesium	5.00	4.90	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4964	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4873	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4947	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010C	P
Selenium	0.500	0.478	96	mg/L	SW-846 6010C	P
Silicon	5.00	5.10	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4939	99	mg/L	SW-846 6010C	P
Sodium	20.0	26.7	134	mg/L	SW-846 6010C	P
Strontium	0.500	0.502	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4784	96	mg/L	SW-846 6010C	P
Tin	0.500	0.5003	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4975	100	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4934	99	mg/L	SW-846 6010C	P
Zinc	0.500	0.4889	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4926	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/24/11 Time: 2256

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.00	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4757	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4744	95	mg/L	SW-846 6010C	P
Barium	0.500	0.4911	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4918	98	mg/L	SW-846 6010C	P
Boron	2.50	2.55	102	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4843	97	mg/L	SW-846 6010C	P
Calcium	5.00	5.01	100	mg/L	SW-846 6010C	P
Chromium	0.500	0.4956	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4855	97	mg/L	SW-846 6010C	P
Copper	0.500	0.4988	100	mg/L	SW-846 6010C	P
Iron	5.00	4.92	98	mg/L	SW-846 6010C	P
Lead	0.500	0.4848	97	mg/L	SW-846 6010C	P
Lithium	0.500	0.545	109	mg/L	SW-846 6010C	P
Magnesium	5.00	4.87	97	mg/L	SW-846 6010C	P
Manganese	0.500	0.495	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4893	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4939	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4811	96	mg/L	SW-846 6010C	P
Silicon	5.00	5.08	102	mg/L	SW-846 6010C	P
Silver	0.500	0.4938	99	mg/L	SW-846 6010C	P
Sodium	20.0	22.3	112	mg/L	SW-846 6010C	P
Strontium	0.500	0.5019	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4856	97	mg/L	SW-846 6010C	P
Tin	0.500	0.5065	101	mg/L	SW-846 6010C	P
Titanium	0.500	0.4958	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4907	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4869	97	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4896	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 05/25/11 Time: 0024

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.91	98	mg/L	SW-846 6010C	P
Antimony	0.500	0.4771	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4774	95	mg/L	SW-846 6010C	P
Barium	0.500	0.4868	97	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4885	98	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4775	96	mg/L	SW-846 6010C	P
Calcium	5.00	4.92	98	mg/L	SW-846 6010C	P
Chromium	0.500	0.4915	98	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4857	97	mg/L	SW-846 6010C	P
Copper	0.500	0.4965	99	mg/L	SW-846 6010C	P
Iron	5.00	4.84	97	mg/L	SW-846 6010C	P
Lead	0.500	0.4848	97	mg/L	SW-846 6010C	P
Lithium	0.500	0.5369	107	mg/L	SW-846 6010C	P
Magnesium	5.00	4.75	95	mg/L	SW-846 6010C	P
Manganese	0.500	0.4912	98	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4896	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4884	98	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	0.500	0.4807	96	mg/L	SW-846 6010C	P
Silicon	5.00	5.01	100	mg/L	SW-846 6010C	P
Silver	0.500	0.4943	99	mg/L	SW-846 6010C	P
Sodium	20.0	22.4	112	mg/L	SW-846 6010C	P
Strontium	0.500	0.5019	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4868	97	mg/L	SW-846 6010C	P
Tin	0.500	0.5051	101	mg/L	SW-846 6010C	P
Titanium	0.500	0.4938	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4862	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4836	97	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4879	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 0945

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	10.0	9.83	98	mg/L	SW-846 6010C	P
Sodium	10.0	9.62	96	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 0945

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	1.00	0.9923	99	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 1017

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	0.100	0.0926	93	mg/L	SW-846 6010C	P
Sodium	1.00	0.9168	92	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-85-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 1017

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.0100	0.00940	94	mg/L	SW-846 6010C	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 1053

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	4.89	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 1053

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4971	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 1606

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.03	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 1606

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4996	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 1742

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.04	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 1742

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4954	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 1907

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.03	101	mg/L	SW-846 6010C	P
Sodium	20.0	19.4	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 1907

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4918	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 2032

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	4.98	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 2032

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4896	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 11

Date Analyzed: 05/25/11 Time: 2159

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	4.98	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 05/25/11 Time: 2159

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4887	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-87-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1103

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	1.00	0.9692	97	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Calibration Source: 195-88-4 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 6
Date Analyzed: 05/27/11 Time: 1129

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Barium	0.0100	0.00920	92	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1204

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4972	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1341

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.498	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1515

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.5026	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1647

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.5008	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-88-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 05/27/11 Time: 1810

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.4991	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-12 CPI Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/16/11 Time: 1149

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	97	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/16/11 Time: 1153

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/16/11 Time: 1332

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/16/11 Time: 1351

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

211050608 0276

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 05/16/11 Time: 1411

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-12 CPI Instrument ID: FIMS1 ICAL ID: 7

Date Analyzed: 05/16/11 Time: 1149

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	97	mg/L	SW-846 7470A Dissolved	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 7

Date Analyzed: 05/16/11 Time: 1153

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 7

Date Analyzed: 05/16/11 Time: 1411

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 7

Date Analyzed: 05/16/11 Time: 1433

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00550	110	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 7

Date Analyzed: 05/16/11 Time: 1452

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00550	109	mg/L	SW-846 7470A Dissolved	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-12 CPI Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/20/11 Time: 1203

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	100	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/20/11 Time: 1207

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	99	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/20/11 Time: 1228

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00530	105	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Calibration Source: 195-83-11 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 05/20/11 Time: 1248

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: ICB ICAL ID: 3

Lab Sample DESC: ICB FOR HBN 456794 [ICP/6883] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/20/11 Time: 1445

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 456794 [ICP/6883] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/20/11 Time: 1550

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 456794 [ICP/6883]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/20/11 Time: 2139

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	0.75	B	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 456794 [ICP/6883] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/20/11 Time: 2307

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Sodium	0.48	B	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 456794 [ICP/6883] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/21/11 Time: 0037

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Sodium	0.43	B	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: ICB ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 457016 [ICP/6888] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/24/11 Time: 1159

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Lab Sample ID: CCB
ICAL ID: 4
Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1254

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1732

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: 944905
ICAL ID: 10

Lab Sample DESC: MB944905
Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1739

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C Dissolved	P
Barium	3.16	B	ug/L	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium	0.45	B	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C Dissolved	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 1853

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: 944933 ICAL ID: 4

Lab Sample DESC: MB944933 Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 Date Analyzed: 05/24/11 Time: 1949

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C	P
Barium	1.87	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	3.24	B	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2018

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2140

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Lab Sample ID: 947881
ICAL ID: 10
Lab Sample DESC: MB947881
Preparation Blank Matrix: (soil / water) Water
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2215

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C Dissolved	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C Dissolved	P
Barium	1.53	B	ug/L	0.11	10.0	SW-846 6010C Dissolved	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C Dissolved	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C Dissolved	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C Dissolved	P
Sodium	889	B	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	1.75	U	ug/L	1.75	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C Dissolved	P

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2303

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Lab Sample ID: 948157
ICAL ID: 4
Lab Sample DESC: MB948157
Preparation Blank Matrix: (soil / water) Water
Instrument ID: ICP6
Date Analyzed: 05/24/11 Time: 2326

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	4.03	U	ug/L	4.03	60.0	SW-846 6010C	P
Arsenic	2.53	U	ug/L	2.53	10.0	SW-846 6010C	P
Barium	4.09	B	ug/L	0.11	10.0	SW-846 6010C	P
Beryllium	0.11	U	ug/L	0.11	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.37	U	ug/L	1.37	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	1.39	U	ug/L	1.39	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.96	U	ug/L	0.96	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	4.34	U	ug/L	4.34	40.0	SW-846 6010C	P
Silver	0.60	U	ug/L	0.60	10.0	SW-846 6010C	P
Sodium	509	B	ug/L	200	1000	SW-846 6010C	P
Thallium	2.07	B	ug/L	1.75	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	2.72	U	ug/L	2.72	20.0	SW-846 6010C	P

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050608

Lab Sample ID: CCB | ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 457016 [ICP/6888] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 05/25/11 | Time: 0031

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.00011	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0014	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0014	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00096	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0043	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0018	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0027	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: ICB
ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: ICB ICAL ID: 5

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: ICB
ICAL ID: 11

Lab Sample DESC: ICB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1010

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1100

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00030	B	mg/L	0.00011	0.010	SW-846 6010C	P

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1612

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1748

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00015	B	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 1914

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00017	B	mg/L	0.00011	0.010	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00020	B	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 11

Lab Sample DESC: CCB FOR HBN 457118 [ICP/6892]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/25/11 Time: 2206

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C Dissolved	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: ICB
ICAL ID: 6

Lab Sample DESC: ICB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1121

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050608

Lab Sample ID: CCB | ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 05/27/11 | Time: 1224

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1347

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1521

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 05/27/11 Time: 1653

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.00013	B	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 457290 [ICP/6899] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 05/27/11 Time: 1816

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Barium	0.010	U	mg/L	0.00011	0.010	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: ICB
ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1151

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608
Lab Sample ID: CCB
ICAL ID: 1
Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)
Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1154

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00011	B	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1333

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: 945531
ICAL ID: 1

Lab Sample DESC: MB945531
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1339

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1352

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 456383 [HG/4979]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1413

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211050608

Lab Sample ID: ICB | ICAL ID: 7

Lab Sample DESC: ICB FOR HBN 456386 [HG/4980] | Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 | Date Analyzed: 05/16/11 | Time: 1151

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1154

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00011	B	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1413

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: 946277
ICAL ID: 7

Lab Sample DESC: MB946277
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1417

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A Dissolved	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1434

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 456386 [HG/4980]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/16/11 Time: 1454

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A Dissolved	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: ICB
ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 456775 [HG/4986]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/20/11 Time: 1205

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456775 [HG/4986]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/20/11 Time: 1208

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456775 [HG/4986]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/20/11 Time: 1230

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: 947877
ICAL ID: 2

Lab Sample DESC: MB947877
Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1
Date Analyzed: 05/20/11 Time: 1233

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.081	U	ug/L	0.081	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211050608

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 456775 [HG/4986]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 05/20/11 Time: 1249

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000081	0.00020	SW-846 7470A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

ICP ID Number: ICP6 ICS Source: 195-84-2 SPEX/EXAXOL~195-84-3 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	185	179	90			
Antimony	0	1.00		1.01	101			
Arsenic	0	1.00		1.00	100			
Barium	0	0.5000		0.4958	99			
Beryllium	0	0.5000		0.5076	102			
Boron	0	1.00		0.8675	87			
Cadmium	0	1.00		0.9888	99			
Calcium	200	200	194	190	95			
Chromium	0	0.5000		0.5052	101			
Cobalt	0	0.5000		0.4741	95			
Copper	0	0.5000		0.5105	102			
Iron	200	200	194	190	95			
Lead	0	1.00		0.9989	100			
Magnesium	200	200	194	189	94			
Manganese	0	0.5000		0.5017	100			
Molybdenum	0	1.00		0.9676	97			
Nickel	0	1.00		0.9431	94			
Selenium	0	1.00		1.01	101			
Silver	0	1.00		1.03	103			
Sodium	0	1.00		1.01	101			
Thallium	0	1.00		1.02	102			
Vanadium	0	0.5000		0.4997	100			
Zinc	0	1.00		0.9920	99			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-84-3 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	182	183	92			
Antimony	0	1.00		1.02	102			
Arsenic	0	1.00		1.02	102			
Barium	0	0.5000		0.5063	101			
Beryllium	0	0.5000		0.5165	103			
Boron	0	1.00		0.9034	90			
Cadmium	0	1.00		0.9913	99			
Calcium	200	200	191	192	96			
Chromium	0	0.5000		0.5146	103			
Cobalt	0	0.5000		0.4753	95			
Copper	0	0.5000		0.5275	106			
Iron	200	200	191	192	96			
Lead	0	1.00		0.9985	100			
Magnesium	200	200	188	189	94			
Manganese	0	0.5000		0.5105	102			
Molybdenum	0	1.00		0.9868	99			
Nickel	0	1.00		0.9690	97			
Selenium	0	1.00		1.03	103			
Silver	0	1.00		1.07	107			
Sodium	0	1.00		1.08	108			
Thallium	0	1.00		1.04	104			
Vanadium	0	0.5000		0.4995	100			
Zinc	0	1.00		1.01	101			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	182	186	93			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.03	103			
Barium	0	0.5000		0.5058	101			
Beryllium	0	0.5000		0.5195	104			
Boron	0	1.00		0.9054	91			
Cadmium	0	1.00		0.9905	99			
Calcium	200	200	193	195	98			
Chromium	0	0.5000		0.5122	102			
Cobalt	0	0.5000		0.4796	96			
Copper	0	0.5000		0.5300	106			
Iron	200	200	193	196	98			
Lead	0	1.00		1.00	100			
Magnesium	200	200	190	193	96			
Manganese	0	0.5000		0.5114	102			
Molybdenum	0	1.00		0.9997	100			
Nickel	0	1.00		0.9659	97			
Selenium	0	1.00		1.02	102			
Silver	0	1.00		1.08	108			
Sodium	0	1.00		1.14	114			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.5000		0.4973	99			
Zinc	0	1.00		1.01	101			

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

ICP ID Number: ICP6 ICS Source: 195-86-5 SPEX/EXAXOL~195-87-5 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	187	187	94			
Antimony	0	1.00		1.04	104			
Arsenic	0	1.00		1.06	106			
Barium	0	0.5000		0.5003	100			
Beryllium	0	0.5000		0.5082	102			
Boron	0	1.00		0.9199	92			
Cadmium	0	1.00		0.9794	98			
Calcium	200	200	198	197	98			
Chromium	0	0.5000		0.5037	101			
Cobalt	0	0.5000		0.4817	96			
Copper	0	0.5000		0.5185	104			
Iron	200	200	197	197	98			
Lead	0	1.00		1.01	101			
Magnesium	200	200	195	195	98			
Manganese	0	0.5000		0.5073	101			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.9501	95			
Selenium	0	1.00		1.04	104			
Silver	0	1.00		1.07	107			
Sodium	0	1.00		0.3315	33			
Thallium	0	1.00		1.09	109			
Vanadium	0	0.5000		0.4873	97			
Zinc	0	1.00		0.9984	100			

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010C

SAMPLE NO. : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	276	5230	99		80 - 120
Antimony	ug/L	500	0	515	103		80 - 120
Arsenic	ug/L	500	0	517	103		80 - 120
Barium	ug/L	500	27.8	513	97		80 - 120
Beryllium	ug/L	500	0	496	99		80 - 120
Cadmium	ug/L	500	0	483	97		80 - 120
Calcium	ug/L	5000	49700	54200	90		80 - 120
Chromium	ug/L	500	8.54	483	95		80 - 120
Cobalt	ug/L	500	0	496	99		80 - 120
Copper	ug/L	500	14.3	517	101		80 - 120
Iron	ug/L	5000	204	5090	98		80 - 120
Lead	ug/L	500	0	484	97		80 - 120
Magnesium	ug/L	5000	48700	53100	87		80 - 120
Manganese	ug/L	500	12.6	503	98		80 - 120
Mercury	ug/L	5	0	4.78	96		80 - 120
Molybdenum	ug/L	500	4.94	513	102		80 - 120
Nickel	ug/L	500	2.96	494	98		80 - 120
Potassium	ug/L	10000	7780	18000	102		80 - 120
Selenium	ug/L	500	0	511	102		80 - 120
Silver	ug/L	500	0	492	98		80 - 120
Sodium	ug/L	20000	567000	594000	132	N	80 - 120
Thallium	ug/L	500	0	478	96		80 - 120
Titanium	ug/L	500	3.16	491	97		80 - 120
Vanadium	ug/L	500	61.1	562	100		80 - 120
Zinc	ug/L	500	2.74	507	101		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 3 out of 50 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010C

SAMPLE NO. : 21105060812

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	5210	99		.5		80 - 120	0 - 30
Antimony	ug/L	500	508	102		1		80 - 120	0 - 30
Arsenic	ug/L	500	508	102		2		80 - 120	0 - 30
Barium	ug/L	500	515	97		.5		80 - 120	0 - 30
Beryllium	ug/L	500	498	100		.3		80 - 120	0 - 30
Cadmium	ug/L	500	484	97		.03		80 - 120	0 - 30
Calcium	ug/L	5000	54700	100		.9		80 - 120	0 - 30
Chromium	ug/L	500	485	95		.5		80 - 120	0 - 30
Cobalt	ug/L	500	488	98		2		80 - 120	0 - 30
Copper	ug/L	500	519	101		.3		80 - 120	0 - 30
Iron	ug/L	5000	5010	96		2		80 - 120	0 - 30
Lead	ug/L	500	478	96		1		80 - 120	0 - 30
Magnesium	ug/L	5000	52100	68	N	2		80 - 120	0 - 30
Manganese	ug/L	500	504	98		.2		80 - 120	0 - 30
Mercury	ug/L	5	4.8	96		.3		80 - 120	0 - 30
Molybdenum	ug/L	500	509	101		.7		80 - 120	0 - 30
Nickel	ug/L	500	487	97		1		80 - 120	0 - 30
Potassium	ug/L	10000	17800	100		1		80 - 120	0 - 30
Selenium	ug/L	500	499	100		2		80 - 120	0 - 30
Silver	ug/L	500	494	99		.4		80 - 120	0 - 30
Sodium	ug/L	20000	594000	131	N	.05		80 - 120	0 - 30
Thallium	ug/L	500	470	94		2		80 - 120	0 - 30
Titanium	ug/L	500	495	98		.9		80 - 120	0 - 30
Vanadium	ug/L	500	563	100		.3		80 - 120	0 - 30
Zinc	ug/L	500	509	101		.5		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 3 out of 50 outside limits

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MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW002 Method SW-846 6010C

SAMPLE NO. : 948159

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4880	97		80 - 120
Antimony	ug/L	500	102	508	81		80 - 120
Arsenic	ug/L	500	0	507	101		80 - 120
Barium	ug/L	500	17.6	501	97		80 - 120
Beryllium	ug/L	500	0	497	99		80 - 120
Cadmium	ug/L	500	0	484	97		80 - 120
Calcium	ug/L	5000	35100	41900	135	N	80 - 120
Chromium	ug/L	500	3.05	479	95		80 - 120
Cobalt	ug/L	500	0	492	98		80 - 120
Copper	ug/L	500	11	518	101		80 - 120
Iron	ug/L	5000	0	4880	98		80 - 120
Lead	ug/L	500	0	483	97		80 - 120
Magnesium	ug/L	5000	34200	41000	137	N	80 - 120
Manganese	ug/L	500	2.76	493	98		80 - 120
Molybdenum	ug/L	500	7.44	514	101		80 - 120
Nickel	ug/L	500	0	489	98		80 - 120
Potassium	ug/L	10000	6860	17600	107		80 - 120
Selenium	ug/L	500	5.87	505	100		80 - 120
Silver	ug/L	500	0	492	98		80 - 120
Sodium	ug/L	20000	491000	531000	200	N	80 - 120
Thallium	ug/L	500	0	472	94		80 - 120
Titanium	ug/L	500	0	491	98		80 - 120
Vanadium	ug/L	500	50.8	552	100		80 - 120
Zinc	ug/L	500	20.1	509	98		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 5 out of 48 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW002 Method SW-846 6010C

SAMPLE NO. : 948160

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4760	94		3		80 - 120	0 - 30
Antimony	ug/L	500	504	80		.8		80 - 120	0 - 30
Arsenic	ug/L	500	498	100		2		80 - 120	0 - 30
Barium	ug/L	500	496	96		1		80 - 120	0 - 30
Beryllium	ug/L	500	493	99		.8		80 - 120	0 - 30
Cadmium	ug/L	500	477	95		1		80 - 120	0 - 30
Calcium	ug/L	5000	41200	122	N	2		80 - 120	0 - 30
Chromium	ug/L	500	474	94		1		80 - 120	0 - 30
Cobalt	ug/L	500	484	97		2		80 - 120	0 - 30
Copper	ug/L	500	515	101		.5		80 - 120	0 - 30
Iron	ug/L	5000	4750	95		3		80 - 120	0 - 30
Lead	ug/L	500	470	94		3		80 - 120	0 - 30
Magnesium	ug/L	5000	39400	106		4		80 - 120	0 - 30
Manganese	ug/L	500	488	97		1		80 - 120	0 - 30
Molybdenum	ug/L	500	506	100		2		80 - 120	0 - 30
Nickel	ug/L	500	488	98		.2		80 - 120	0 - 30
Potassium	ug/L	10000	17200	103		3		80 - 120	0 - 30
Selenium	ug/L	500	496	98		2		80 - 120	0 - 30
Silver	ug/L	500	488	98		.7		80 - 120	0 - 30
Sodium	ug/L	20000	532000	206	N	.2		80 - 120	0 - 30
Thallium	ug/L	500	472	94		.008		80 - 120	0 - 30
Titanium	ug/L	500	491	98		.06		80 - 120	0 - 30
Vanadium	ug/L	500	548	99		.7		80 - 120	0 - 30
Zinc	ug/L	500	502	96		1		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 5 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010C Dissolved

SAMPLE NO. : 21105060811

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	105	5040	99		80 - 120
Antimony	ug/L	500	0	535	107		80 - 120
Arsenic	ug/L	500	0	552	110		80 - 120
Barium	ug/L	500	18	524	101		80 - 120
Beryllium	ug/L	500	0	522	104		80 - 120
Cadmium	ug/L	500	0	511	102		80 - 120
Calcium	ug/L	5000	50800	56100	105		80 - 120
Chromium	ug/L	500	2.24	498	99		80 - 120
Cobalt	ug/L	500	0	512	102		80 - 120
Copper	ug/L	500	13.4	535	104		80 - 120
Iron	ug/L	5000	46.6	5030	100		80 - 120
Lead	ug/L	500	0	501	100		80 - 120
Magnesium	ug/L	5000	50100	54200	82		80 - 120
Manganese	ug/L	500	2.16	515	103		80 - 120
Mercury	ug/L	5	0	4.66	93		75 - 125
Molybdenum	ug/L	500	5.66	526	104		80 - 120
Nickel	ug/L	500	0	507	101		80 - 120
Potassium	ug/L	10000	7880	18200	104		80 - 120
Selenium	ug/L	500	0	540	108		80 - 120
Silver	ug/L	500	0	518	104		80 - 120
Sodium	ug/L	20000	588000	620000	158	N	80 - 120
Thallium	ug/L	500	0	498	100		80 - 120
Titanium	ug/L	500	1.53	507	101		80 - 120
Vanadium	ug/L	500	58.3	581	105		80 - 120
Zinc	ug/L	500	0	532	106		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW001 Method SW-846 6010C Dissolved

SAMPLE NO. : 21105060812

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4850	95		4		80 - 120	0 - 30
Antimony	ug/L	500	518	104		3		80 - 120	0 - 30
Arsenic	ug/L	500	518	104		6		80 - 120	0 - 30
Barium	ug/L	500	496	96		5		80 - 120	0 - 30
Beryllium	ug/L	500	495	99		5		80 - 120	0 - 30
Cadmium	ug/L	500	483	97		6		80 - 120	0 - 30
Calcium	ug/L	5000	54000	64	N	4		80 - 120	0 - 30
Chromium	ug/L	500	474	94		5		80 - 120	0 - 30
Cobalt	ug/L	500	490	98		4		80 - 120	0 - 30
Copper	ug/L	500	509	99		5		80 - 120	0 - 30
Iron	ug/L	5000	4870	96		3		80 - 120	0 - 30
Lead	ug/L	500	478	96		5		80 - 120	0 - 30
Magnesium	ug/L	5000	53200	63	N	2		80 - 120	0 - 30
Manganese	ug/L	500	488	97		5		80 - 120	0 - 30
Mercury	ug/L	5	4.8	96		3		75 - 125	0 - 20
Molybdenum	ug/L	500	510	101		3		80 - 120	0 - 30
Nickel	ug/L	500	486	97		4		80 - 120	0 - 30
Potassium	ug/L	10000	17800	99		2		80 - 120	0 - 30
Selenium	ug/L	500	514	103		5		80 - 120	0 - 30
Silver	ug/L	500	491	98		5		80 - 120	0 - 30
Sodium	ug/L	20000	585000	-20	N	6		80 - 120	0 - 30
Thallium	ug/L	500	477	95		4		80 - 120	0 - 30
Titanium	ug/L	500	486	97		4		80 - 120	0 - 30
Vanadium	ug/L	500	553	99		5		80 - 120	0 - 30
Zinc	ug/L	500	506	101		5		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 26 outside limits

Spike Recovery: 4 out of 50 outside limits

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MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW002 Method SW-846 6010C Dissolved

SAMPLE NO. : 947883

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	164	4930	95		80 - 120
Antimony	ug/L	500	0	505	101		80 - 120
Arsenic	ug/L	500	0	515	103		80 - 120
Barium	ug/L	500	16.5	497	96		80 - 120
Beryllium	ug/L	500	0	498	100		80 - 120
Cadmium	ug/L	500	0	484	97		80 - 120
Calcium	ug/L	5000	37400	40800	68	N	80 - 120
Chromium	ug/L	500	2.09	477	95		80 - 120
Cobalt	ug/L	500	0	491	98		80 - 120
Copper	ug/L	500	11.6	519	101		80 - 120
Iron	ug/L	5000	0	4800	96		80 - 120
Lead	ug/L	500	0	480	96		80 - 120
Magnesium	ug/L	5000	36700	39500	57	N	80 - 120
Manganese	ug/L	500	0	490	98		80 - 120
Molybdenum	ug/L	500	8.79	505	99		80 - 120
Nickel	ug/L	500	0	489	98		80 - 120
Potassium	ug/L	10000	7280	17200	99		80 - 120
Selenium	ug/L	500	0	512	102		80 - 120
Silver	ug/L	500	0	495	99		80 - 120
Sodium	ug/L	20000	527000	520000	-40	N	80 - 120
Thallium	ug/L	500	0	475	95		80 - 120
Titanium	ug/L	500	0	485	97		80 - 120
Vanadium	ug/L	500	53.4	551	100		80 - 120
Zinc	ug/L	500	0	510	102		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MAO1MW002 Method SW-846 6010C Dissolved

SAMPLE NO. : 947884

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*#*	*% RPD*	*#*	*QC. LIMITS REC*	*QC. LIMITS RPD*
Aluminum	ug/L	5000	5140	100		4		80 - 120	0 - 30
Antimony	ug/L	500	520	104		3		80 - 120	0 - 30
Arsenic	ug/L	500	522	104		1		80 - 120	0 - 30
Barium	ug/L	500	513	99		3		80 - 120	0 - 30
Beryllium	ug/L	500	515	103		3		80 - 120	0 - 30
Cadmium	ug/L	500	499	100		3		80 - 120	0 - 30
Calcium	ug/L	5000	42600	103		4		80 - 120	0 - 30
Chromium	ug/L	500	492	98		3		80 - 120	0 - 30
Cobalt	ug/L	500	502	100		2		80 - 120	0 - 30
Copper	ug/L	500	533	104		3		80 - 120	0 - 30
Iron	ug/L	5000	5020	100		5		80 - 120	0 - 30
Lead	ug/L	500	490	98		2		80 - 120	0 - 30
Magnesium	ug/L	5000	41700	100		5		80 - 120	0 - 30
Manganese	ug/L	500	506	101		3		80 - 120	0 - 30
Molybdenum	ug/L	500	517	102		2		80 - 120	0 - 30
Nickel	ug/L	500	498	100		2		80 - 120	0 - 30
Potassium	ug/L	10000	18200	109		6		80 - 120	0 - 30
Selenium	ug/L	500	522	104		2		80 - 120	0 - 30
Silver	ug/L	500	514	103		4		80 - 120	0 - 30
Sodium	ug/L	20000	542000	74	N	4		80 - 120	0 - 30
Thallium	ug/L	500	486	97		2		80 - 120	0 - 30
Titanium	ug/L	500	500	100		3		80 - 120	0 - 30
Vanadium	ug/L	500	566	103		3		80 - 120	0 - 30
Zinc	ug/L	500	526	105		3		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 4 out of 48 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608

Matrix Spike - EPA Sample No: MWQ23 Method SW-846 7470A

SAMPLE NO. : 947879

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Mercury	ug/L	5	0	4.49	90		80 - 120

SAMPLE NO. : 947880

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*#*	*% RPD*	*#*	*QC. LIMITS REC*	*RPD*
Mercury	ug/L	5	4.46	89		.6		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW001PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Lab Sample ID: 950673

Orig Lab Sample ID: 21105060810

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5700		276		5000	109		ug/L	SW-846 6010C	P
Antimony	75	125	528		0	U	500	106		ug/L	SW-846 6010C	P
Arsenic	75	125	538		0	U	500	108		ug/L	SW-846 6010C	P
Beryllium	75	125	525		0	U	500	105		ug/L	SW-846 6010C	P
Cadmium	75	125	511		0	U	500	102		ug/L	SW-846 6010C	P
Calcium	75	125	54100		49700		5000	87		ug/L	SW-846 6010C	P
Chromium	75	125	516		8.54	B	500	101		ug/L	SW-846 6010C	P
Cobalt	75	125	518		0	U	500	104		ug/L	SW-846 6010C	P
Copper	75	125	547		14.3		500	107		ug/L	SW-846 6010C	P
Iron	75	125	5430		204		5000	104		ug/L	SW-846 6010C	P
Lead	75	125	504		0	U	500	101		ug/L	SW-846 6010C	P
Magnesium	75	125	52800		48700		5000	81		ug/L	SW-846 6010C	P
Manganese	75	125	535		12.6	B	500	104		ug/L	SW-846 6010C	P
Molybdenum	75	125	530		4.94	B	500	105		ug/L	SW-846 6010C	P
Nickel	75	125	517		2.96	B	500	103		ug/L	SW-846 6010C	P
Potassium	75	125	18700		7780		10000	109		ug/L	SW-846 6010C	P
Selenium	75	125	533		0	U	500	107		ug/L	SW-846 6010C	P
Silver	75	125	515		0	U	500	103		ug/L	SW-846 6010C	P
Thallium	75	125	499		0	U	500	100		ug/L	SW-846 6010C	P
Titanium	75	125	532		3.16	B	500	106		ug/L	SW-846 6010C	P
Vanadium	75	125	591		61.1		500	106		ug/L	SW-846 6010C	P
Zinc	75	125	551		2.74	B	500	110		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO2MW001DPDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Lab Sample ID: 952397

Orig Lab Sample ID: 21105060801

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Barium	75	125	536		19.8		500	103		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW002PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Lab Sample ID: 950679

Orig Lab Sample ID: 21105170901

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5000		0	U	5000	99		ug/L	SW-846 6010C	P
Antimony	75	125	518		102		500	83		ug/L	SW-846 6010C	P
Arsenic	75	125	521		0	U	500	104		ug/L	SW-846 6010C	P
Barium	75	125	514		17.6		500	99		ug/L	SW-846 6010C	P
Beryllium	75	125	512		0	U	500	102		ug/L	SW-846 6010C	P
Cadmium	75	125	497		0	U	500	99		ug/L	SW-846 6010C	P
Calcium	75	125	40100		35100		5000	99		ug/L	SW-846 6010C	P
Chromium	75	125	494		3.05	B	500	98		ug/L	SW-846 6010C	P
Cobalt	75	125	501		0	U	500	100		ug/L	SW-846 6010C	P
Copper	75	125	532		11		500	104		ug/L	SW-846 6010C	P
Iron	75	125	5010		0	U	5000	100		ug/L	SW-846 6010C	P
Lead	75	125	490		0	U	500	98		ug/L	SW-846 6010C	P
Magnesium	75	125	39000		34200		5000	96		ug/L	SW-846 6010C	P
Manganese	75	125	510		2.76	B	500	101		ug/L	SW-846 6010C	P
Molybdenum	75	125	524		7.44	B	500	103		ug/L	SW-846 6010C	P
Nickel	75	125	499		0	U	500	100		ug/L	SW-846 6010C	P
Potassium	75	125	17600		6860		10000	107		ug/L	SW-846 6010C	P
Selenium	75	125	515		5.87	B	500	102		ug/L	SW-846 6010C	P
Silver	75	125	500		0	U	500	100		ug/L	SW-846 6010C	P
Thallium	75	125	484		0	U	500	97		ug/L	SW-846 6010C	P
Titanium	75	125	507		0	U	500	101		ug/L	SW-846 6010C	P
Vanadium	75	125	565		50.8		500	103		ug/L	SW-846 6010C	P
Zinc	75	125	536		20.1		500	103		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW002PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Lab Sample ID: 951589

Orig Lab Sample ID: 21105170901

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium	75	125	512000		491000		20000	106		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW001PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Lab Sample ID: 950675

Orig Lab Sample ID: 21105060810

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5190		105	B	5000	102		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	544		0	U	500	109		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	564		0	U	500	113		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	535		18		500	103		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	533		0	U	500	107		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	525		0	U	500	105		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	55500		50800		5000	95		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	511		2.24	B	500	102		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	530		0	U	500	106		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	547		13.4		500	107		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5230		46.6	B	5000	104		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	515		0	U	500	103		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	54600		50100		5000	90		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	528		2.16	B	500	105		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	535		5.66	B	500	106		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	524		0	U	500	105		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	18700		7880		10000	108		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	560		0	U	500	112		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	522		0	U	500	104		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	516		1.53	B	500	103		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	593		58.3		500	107		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	560		0	U	500	112		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW002PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608
Level: (low / med)
Lab Sample ID: 950677
Orig Lab Sample ID: 21105170901

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5200		164	B	5000	101		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	541		0	U	500	108		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	542		0	U	500	108		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	526		16.5		500	102		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	529		0	U	500	106		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	513		0	U	500	103		ug/L	-846 6010C Disso	P
Calcium (Dissolved)	75	125	42600		37400		5000	103		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	506		2.09	B	500	101		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	547		11.6		500	107		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5070		0	U	5000	101		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	501		0	U	500	100		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	41000		36700		5000	87		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	520		0	U	500	104		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	541		8.79	B	500	106		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	515		0	U	500	103		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	18200		7280		10000	109		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	536		0	U	500	107		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	508		0	U	500	102		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	523		0	U	500	105		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	582		53.4		500	106		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	553		0	U	500	111		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MAO1MW002PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608
Level: (low / med)
Lab Sample ID: 951587
Orig Lab Sample ID: 21105170901

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium (Dissolved)	75	125	535000		527000		20000	40		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944934
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608
Lab Sample ID: 944934
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4700	94	80	120	ug/L	SW-846 6010C	P
Antimony	500	463	93	80	120	ug/L	SW-846 6010C	P
Arsenic	500	455	91	80	120	ug/L	SW-846 6010C	P
Barium	500	479	96	80	120	ug/L	SW-846 6010C	P
Beryllium	500	466	93	80	120	ug/L	SW-846 6010C	P
Cadmium	500	466	93	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4640	93	80	120	ug/L	SW-846 6010C	P
Chromium	500	473	95	80	120	ug/L	SW-846 6010C	P
Cobalt	500	468	94	80	120	ug/L	SW-846 6010C	P
Copper	500	471	94	80	120	ug/L	SW-846 6010C	P
Iron	5000	4610	92	80	120	ug/L	SW-846 6010C	P
Lead	500	467	93	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4590	92	80	120	ug/L	SW-846 6010C	P
Manganese	500	474	95	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	474	95	80	120	ug/L	SW-846 6010C	P
Nickel	500	477	95	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9480	95	80	120	ug/L	SW-846 6010C	P
Selenium	500	464	93	80	120	ug/L	SW-846 6010C	P
Silver	500	470	94	80	120	ug/L	SW-846 6010C	P
Sodium	20000	18100	91	80	120	ug/L	SW-846 6010C	P
Thallium	500	466	93	80	120	ug/L	SW-846 6010C	P
Titanium	500	479	96	80	120	ug/L	SW-846 6010C	P
Vanadium	500	468	94	80	120	ug/L	SW-846 6010C	P
Zinc	500	467	93	80	120	ug/L	SW-846 6010C	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS948158

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Lab Sample ID: 948158
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4870	97	80	120	ug/L	SW-846 6010C	P
Antimony	500	472	94	80	120	ug/L	SW-846 6010C	P
Arsenic	500	464	93	80	120	ug/L	SW-846 6010C	P
Barium	500	477	95	80	120	ug/L	SW-846 6010C	P
Beryllium	500	473	95	80	120	ug/L	SW-846 6010C	P
Cadmium	500	468	94	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4740	95	80	120	ug/L	SW-846 6010C	P
Chromium	500	478	96	80	120	ug/L	SW-846 6010C	P
Cobalt	500	478	96	80	120	ug/L	SW-846 6010C	P
Copper	500	481	96	80	120	ug/L	SW-846 6010C	P
Iron	5000	4800	96	80	120	ug/L	SW-846 6010C	P
Lead	500	477	95	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4750	95	80	120	ug/L	SW-846 6010C	P
Manganese	500	477	95	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	482	96	80	120	ug/L	SW-846 6010C	P
Nickel	500	481	96	80	120	ug/L	SW-846 6010C	P
Potassium	10000	10000	100	80	120	ug/L	SW-846 6010C	P
Selenium	500	478	96	80	120	ug/L	SW-846 6010C	P
Silver	500	481	96	80	120	ug/L	SW-846 6010C	P
Sodium	20000	20400	102	80	120	ug/L	SW-846 6010C	P
Thallium	500	474	95	80	120	ug/L	SW-846 6010C	P
Titanium	500	483	97	80	120	ug/L	SW-846 6010C	P
Vanadium	500	473	95	80	120	ug/L	SW-846 6010C	P
Zinc	500	471	94	80	120	ug/L	SW-846 6010C	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS944906

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Lab Sample ID: 944906
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	5030	101	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	496	99	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	499	100	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	498	100	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	500	100	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	4990	100	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	495	99	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	494	99	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	4970	99	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	4970	99	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	498	100	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	10100	101	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	503	101	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	502	100	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	19000	95	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	496	99	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	507	101	80	120	ug/L	SW-846 6010C Dissolved	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS947882

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Lab Sample ID: 947882
LCS Source: 196-4-17 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	4850	97	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	473	95	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	470	94	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	480	96	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	483	97	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	480	96	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	4720	94	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	482	96	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	479	96	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	483	97	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	4760	95	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	478	96	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	4730	95	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	482	96	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	475	95	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	489	98	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	10000	100	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	490	98	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	487	97	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	20800	104	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	475	95	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	483	97	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	478	96	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	485	97	80	120	ug/L	SW-846 6010C Dissolved	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS945532
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608
Lab Sample ID: 945532
LCS Source: 195-83-11 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	4.89	98	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS947878
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608
Lab Sample ID: 947878
LCS Source: 195-83-11 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	4.29	86	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: (soil / water) Water
Lab Sample ID: 946278

Sample ID: LCS946278
Contract:
SAS No.: SDG No.: 211050608
LCS Source: 195-83-11 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury (Dissolved)	5.00	4.99	100	80	120	ug/L	SW-846 7470A Dissolved	AV

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 950674

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			276		0	U	100		ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Calcium	0	10	49700		48800		1.8		ug/L	SW-846 6010C	P
Chromium			8.54	B	8.59	B	.5		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			14.3		26.1	B	83.2		ug/L	SW-846 6010C	P
Iron			204		0	U	100		ug/L	SW-846 6010C	P
Lead			0	U	0	U			ug/L	SW-846 6010C	P
Magnesium	0	10	48700		47600		2.3		ug/L	SW-846 6010C	P
Manganese			12.6	B	12.6	B	0		ug/L	SW-846 6010C	P
Molybdenum			4.94	B	0	U	100		ug/L	SW-846 6010C	P
Nickel			2.96	B	0	U	100		ug/L	SW-846 6010C	P
Potassium	0	10	7780		7560		2.9		ug/L	SW-846 6010C	P
Selenium			0	U	0	U			ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			3.16	B	0	U	100		ug/L	SW-846 6010C	P
Vanadium			61.1		79.3	B	29.8		ug/L	SW-846 6010C	P
Zinc			2.74	B	0	U	100		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO2MW001DSD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105060801

Lab Sample ID: 952398

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Barium	0	10	19.8		19.0	B	3.9		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW002SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105170901

Lab Sample ID: 950680

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			0	U	0	U			ug/L	SW-846 6010C	P
Antimony			102		0	U	100		ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Barium	0	10	17.6		17.5	B	.8		ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Calcium	0	10	35100		34300		2.3		ug/L	SW-846 6010C	P
Chromium			3.05	B	0	U	100		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			11		19.5	B	77.7		ug/L	SW-846 6010C	P
Iron			0	U	0	U			ug/L	SW-846 6010C	P
Lead			0	U	7.16	B			ug/L	SW-846 6010C	P
Magnesium	0	10	34200		33700		1.3		ug/L	SW-846 6010C	P
Manganese			2.76	B	0	U	100		ug/L	SW-846 6010C	P
Molybdenum			7.44	B	0	U	100		ug/L	SW-846 6010C	P
Nickel			0	U	0	U			ug/L	SW-846 6010C	P
Potassium	0	10	6860		6750		1.6		ug/L	SW-846 6010C	P
Selenium			5.87	B	0	U	100		ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			0	U	0	U			ug/L	SW-846 6010C	P
Vanadium			50.8		63.5	B	25		ug/L	SW-846 6010C	P
Zinc			20.1		0	U	100		ug/L	SW-846 6010C	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW002SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105170901

Lab Sample ID: 951590

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium	0	10	491000		512000		4.3		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 950676

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			105	B	0	U	100		ug/L	-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Arsenic (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Barium (Dissolved)	0	10	18		17.7	B	1.5		ug/L	-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Cadmium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Calcium (Dissolved)	0	10	50800		50300		1		ug/L	-846 6010C Dissolv	P
Chromium (Dissolved)			2..24	B	0	U	100		ug/L	-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Copper (Dissolved)			13.4		25.8	B	91.9		ug/L	-846 6010C Dissolv	P
Iron (Dissolved)			46.6	B	0	U	100		ug/L	-846 6010C Dissolv	P
Lead (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	50100		49600		1		ug/L	-846 6010C Dissolv	P
Manganese (Dissolved)			2.16	B	0	U	100		ug/L	-846 6010C Dissolv	P
Molybdenum (Dissolved			5.66	B	0	U	100		ug/L	-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Potassium (Dissolved)	0	10	7880		7630		3.2		ug/L	-846 6010C Dissolv	P
Selenium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Titanium (Dissolved)			1.53	B	0	U	100		ug/L	-846 6010C Dissolv	P
Vanadium (Dissolved)			58.3		80.4	B	38		ug/L	-846 6010C Dissolv	P
Zinc (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW002SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105170901

Lab Sample ID: 950678

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			164	B	0	U	100		ug/L	-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	24.9	B			ug/L	-846 6010C Dissolv	P
Arsenic (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Barium (Dissolved)	0	10	16.5		16.7	B	1.1		ug/L	-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Cadmium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Calcium (Dissolved)	0	10	37400		38000		1.5		ug/L	-846 6010C Dissolv	P
Chromium (Dissolved)			2.09	B	0	U	100		ug/L	-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Copper (Dissolved)			11.6		19.8	B	71.3		ug/L	-846 6010C Dissolv	P
Iron (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Lead (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	36700		35600		2.9		ug/L	-846 6010C Dissolv	P
Manganese (Dissolved)			0	U	10.4	B			ug/L	-846 6010C Dissolv	P
Molybdenum (Dissolved			8.79	B	0	U	100		ug/L	-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Potassium (Dissolved)	0	10	7280		7080		2.7		ug/L	-846 6010C Dissolv	P
Selenium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Titanium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Vanadium (Dissolved)			53.4		70.0	B	31.1		ug/L	-846 6010C Dissolv	P
Zinc (Dissolved)			0	U	125				ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MAO1MW002SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105170901

Lab Sample ID: 951588

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium (Dissolved)	0	10	527000		545000		3.4		ug/L	-846 6010C Dissol	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW001SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 947424

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MWQ23SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105170902

Lab Sample ID: 949248

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0	U	0	U			ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW001SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211050608

Level: (low / med)
Org Lab Sample ID: 21105060810

Lab Sample ID: 947425

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury (Dissolved)			0	U	0	U			ug/L	-846 7470A Dissolv	AV

FORM IX - IN

METHOD DETECTION LIMITS

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211050608

Study Date: (P)10/13/10 (AV) 10/20/10

Instrument ID: (P) ICP5 / ICP6 (AV) FIMS1

Analyte	*MDL*	*Units*	*Type*
Aluminum	0.060	mg/L	P
Antimony	0.0040	mg/L	P
Arsenic	0.0025	mg/L	P
Barium	0.00011	mg/L	P
Beryllium	0.00011	mg/L	P
Cadmium	0.00020	mg/L	P
Calcium	0.050	mg/L	P
Chromium	0.0010	mg/L	P
Cobalt	0.0010	mg/L	P
Copper	0.0014	mg/L	P
Iron	0.040	mg/L	P
Lead	0.0014	mg/L	P
Magnesium	0.050	mg/L	P
Manganese	0.0020	mg/L	P
Mercury	0.000081	mg/L	AV
Molybdenum	0.00375	mg/L	P
Nickel	0.00096	mg/L	P
Potassium	0.10	mg/L	P
Selenium	0.0043	mg/L	P
Silver	0.00060	mg/L	P
Sodium	0.20	mg/L	P
Thallium	0.0018	mg/L	P
Titanium	0.0012	mg/L	P
Vanadium	0.00375	mg/L	P
Zinc	0.0027	mg/L	P

ICP Metals Water LOD's/LOQ's

Method	Analyte	Matrix	LOD (mg/L)	LOQ (mg/L)	Prep Method
SW846 6010B/C / EPA 200.7	Aluminum	W	0.06	0.2	3010A
SW846 6010B/C / EPA 200.7	Antimony	W	0.006	0.06	3010A
SW846 6010B/C / EPA 200.7	Arsenic	W	0.01	0.01	3010A
SW846 6010B/C / EPA 200.7	Barium	W	0.0005	0.01	3010A
SW846 6010B/C / EPA 200.7	Beryllium	W	0.00025	0.005	3010A
SW846 6010B/C / EPA 200.7	Boron	W	0.06	1.0	3010A
SW846 6010B/C / EPA 200.7	Cadmium	W	0.002	0.005	3010A
SW846 6010B/C / EPA 200.7	Calcium	W	0.05	0.1	3010A
SW846 6010B/C / EPA 200.7	Chromium	W	0.001	0.01	3010A
SW846 6010B/C / EPA 200.7	Cobalt	W	0.001	0.01	3010A
SW846 6010B/C / EPA 200.7	Copper	W	0.004	0.01	3010A
SW846 6010B/C / EPA 200.7	Iron	W	0.04	0.1	3010A
SW846 6010B/C / EPA 200.7	Lead	W	0.005	0.015	3010A
SW846 6010B/C / EPA 200.7	Magnesium	W	0.05	0.1	3010A
SW846 6010B/C / EPA 200.7	Manganese	W	0.002	0.015	3010A
SW846 6010B/C / EPA 200.7	Molybdenum	W	0.00375	0.03	3010A
SW846 6010B/C / EPA 200.7	Nickel	W	0.0025	0.04	3010A
SW846 6010B/C / EPA 200.7	Potassium	W	0.1	0.5	3010A
SW846 6010B/C / EPA 200.7	Selenium	W	0.015	0.04	3010A
SW846 6010B/C / EPA 200.7	Silver	W	0.002	0.01	3010A
SW846 6010B/C / EPA 200.7	Sodium	W	0.2	1.0	3010A
SW846 6010B/C / EPA 200.7	Strontium	W	0.001	0.05	3010A
SW846 6010B/C / EPA 200.7	Thallium	W	0.002	0.02	3010A
SW846 6010B/C / EPA 200.7	Tin	W	0.01	0.025	3010A
SW846 6010B/C / EPA 200.7	Titanium	W	0.0012	0.1	3010A
SW846 6010B/C / EPA 200.7	Vanadium	W	0.00375	0.02	3010A
SW846 6010B/C / EPA 200.7	Zinc	W	0.0075	0.02	3010A

Metals Miscellaneous Water LOD's/LOQ's

Method	Analyte	Matrix	LOD (mg/L)	LOQ (mg/L)	Prep Method
SW846 7470A / EPA 245.1/245.2	Mercury	W	0.0002	0.0002	N/A

IEC File Name: ICP6_2110412

IEC File Last Saved: 5/12/2011 10:55:53 AM
Printed On: 5/23/2011 8:53:33 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Aluminum,7429-90-5	Calcium,7440-70-2	Chromium,7440-47-3	Copper,7440-50-8
1	**Aluminum,7429-90-5**	n/a	-0.0286577	-0.683808	-0.739605
2	**Antimony,7440-36-0**	0.00126	-0.00154809	19.7708	-0.00261635
5	**Arsenic,7440-38-2**	-0.0561283	0	0.111312	-0.0157937
6	**Barium,7440-39-3**	0.00119	0.0104879	0.00928673	0.00299839
7	**Beryllium,7440-41-7**	0	0	-0.0110458	0.0397649
8	**Boron,7440-42-8**	0.00731867	0.0143787	0.252103	0.0420573
9	**Cadmium,7440-43-9**	0.01388	-0.00126797	-0.18818	0.0200079
10	**Calcium,7440-70-2**	0.027832	n/a	-1.88215	0.238788
11	**Chromium,7440-47-3**	0.04794	0	n/a	0.0158997
12	**Cobalt,7440-48-4**	0	0	-0.182477	0.0737948
13	**Copper,7440-50-8**	0.00217697	0	-0.233183	n/a
14	**Iron,7439-89-6**	0.0513325	0.00320007	0.341469	0.00799524
15	**Lead,7439-92-1**	-0.11696	-0.0102341	-0.0521034	0.468523
16	**Lithium,7439-93-2**	-0.00694086	-0.00456089	-0.0232596	0.0112586
17	**Magnesium,7439-95-4**	0.00230743	0.00138452	-0.0475728	0.107302
18	**Manganese,7439-96-5**	-0.01098	0	-0.0698207	0.00154313
19	**Molybdenum,7439-98-7**	0	-0.0036713	0.0730874	0.00244185
20	**Nickel,7440-02-0**	-0.00116781	0	0.0156546	-0.00226366
21	**Potassium,7440-09-7**	-0.38977	-0.00863437	0.243174	-0.0857667
23	**Selenium,7782-49-2**	-0.00368754	-0.00201218	-0.0535067	0.0174661
24	**Silicon,7440-21-3**	0.00320213	0.133494	-0.153804	-0.0284434
25	**Silver,7440-22-4**	0.00125187	-0.00730783	0.00672254	0.0443056
26	**Sodium,7440-23-5**	0.161946	0.0731612	0.763138	-0.0962373
27	**Strontium,7440-24-6**	0	0.0309314	0.00116797	0
28	**Thallium,7440-28-0**	0.00420794	0.00186109	0.150794	0.0114215
29	**Tin,7440-31-5**	0.0075104	-0.0081075	-0.0386812	0.00306447
30	**Titanium,7440-32-6**	0	0	0.00184524	0.00389563
31	**Vanadium,7440-62-2**	0.00116604	0.00405548	-1.40859	-0.00590393
34	**Zinc,7440-66-6**	0	0	-0.0255995	0.325487
35	**Zirconium,7440-67-7**	0	0.00664328	-0.0817625	-0.00146221

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Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Iron,7439-89-6	Magnesium,7439-95-4	Manganese,7439-96-5	Nickel,7440-02-0
1	Aluminum,7429-90-5	-0.209169	-0.0286382	-0.811012	-0.146358
2	Antimony,7440-36-0	0.0100634	0.00138303	-0.0586308	-0.0387175
5	Arsenic,7440-38-2	-0.0332269	0	-0.302726	-0.597021
6	Barium,7440-39-3	0.0801818	0	-0.0732571	-0.0111359
7	Beryllium,7440-41-7	0	0	0.0120213	0.000619666
8	Boron,7440-42-8	-3.96118	0.238211	-0.00417606	0.166055
9	Cadmium,7440-43-9	0.0397773	-0.00194133	0.0101938	0.0900079
10	Calcium,7440-70-2	0.082379	0.660707	0.618928	0.399017
11	Chromium,7440-47-3	-0.0118578	0.0108593	0.474659	0.00475246
12	Cobalt,7440-48-4	0.0221311	0	0.0111715	0.159633
13	Copper,7440-50-8	-0.056107	0.0277851	-0.183544	-0.0590739
14	Iron,7439-89-6	n/a	0.0745416	-0.194161	0.119767
15	Lead,7439-92-1	0.0238128	0.00198206	0.166849	-0.112457
16	Lithium,7439-93-2	0.214196	0.00776558	0.0894097	0.0488182
17	Magnesium,7439-95-4	0.0749935	n/a	-6.10544	0.189097
18	Manganese,7439-96-5	-0.018345	0.0170552	n/a	0.00687926
19	Molybdenum,7439-98-7	-0.0594203	0	-0.0264535	0
20	Nickel,7440-02-0	0.00626378	0.00121603	0.0424259	n/a
21	Potassium,7440-09-7	0.8516	0.597748	3.42002	0.765171
23	Selenium,7782-49-2	-0.384237	-0.00285659	0.664143	-0.00686401
24	Silicon,7440-21-3	-0.0277401	0.655916	-0.0310742	-0.0554139
25	Silver,7440-22-4	-0.0217091	0.00161927	0.261444	0.00389222
26	Sodium,7440-23-5	-0.0360744	0.154506	-0.892652	-0.207123
27	Strontium,7440-24-6	0.00164257	0.00198121	-0.0012808	0
28	Thallium,7440-28-0	0.0218736	-0.00658303	-7.62549	0.0103223
29	Tin,7440-31-5	-0.0182914	0.0164941	-0.020679	0.00282765
30	Titanium,7440-32-6	0.0019956	0.00156352	0.00477341	0
31	Vanadium,7440-62-2	0.375473	0.108726	-0.0120246	-0.0114093
34	Zinc,7440-66-6	0.0901781	0.0154919	0.130107	6.96965
35	Zirconium,7440-67-7	0.013643	0	0.0045963	-0.0320422

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IEC File Last Saved: 5/12/2011 10:55:53 AM
Printed On: 5/23/2011 8:53:33 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Titanium,7440-32-6	Vanadium,7440-62-2
1	**Aluminum,7429-90-5**	0.7442	12.9771
2	**Antimony,7440-36-0**	-0.667254	-2.71411
5	**Arsenic,7440-38-2**	-0.0185473	-17.0541
6	**Barium,7440-39-3**	-0.0167887	-1.59345
7	**Beryllium,7440-41-7**	-2.44132	-0.0379181
8	**Boron,7440-42-8**	0.0834021	-0.260126
9	**Cadmium,7440-43-9**	-0.00518088	-0.00377344
10	**Calcium,7440-70-2**	0.538917	0.18595
11	**Chromium,7440-47-3**	0.0323753	-0.525557
12	**Cobalt,7440-48-4**	2.25207	0.0215555
13	**Copper,7440-50-8**	-0.287768	-0.293651
14	**Iron,7439-89-6**	0.0371013	0.420021
15	**Lead,7439-92-1**	-0.308356	-0.0486499
16	**Lithium,7439-93-2**	0.0612274	-0.0118191
17	**Magnesium,7439-95-4**	0.783002	0.39872
18	**Manganese,7439-96-5**	0.0195422	0.0105513
19	**Molybdenum,7439-98-7**	0.0114226	-0.178552
20	**Nickel,7440-02-0**	0.00441814	0.006173
21	**Potassium,7440-09-7**	1.6591	0.647249
23	**Selenium,7782-49-2**	-0.0674685	0.309972
24	**Silicon,7440-21-3**	0	0.229195
25	**Silver,7440-22-4**	0.0121537	-4.14794
26	**Sodium,7440-23-5**	-0.614069	-0.540203
27	**Strontium,7440-24-6**	-0.00266828	0.0149492
28	**Thallium,7440-28-0**	-6.72197	-9.80029
29	**Tin,7440-31-5**	-3.276	-0.00781111
30	**Titanium,7440-32-6**	**n/a**	0.0528384
31	**Vanadium,7440-62-2**	-0.0661099	**n/a**
34	**Zinc,7440-66-6**	-0.504326	-0.0471577
35	**Zirconium,7440-67-7**	0.204891	-0.0115903

ICP LINEAR RANGES

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211050608

Study Date: 04/12/11

Instrument ID: ICP6

Analyte	*Concentration*	*% Recovery*	*Units*	*Type*
Aluminum	1500	94	mg/L	P
Antimony	25	97	mg/L	P
Arsenic	25	95	mg/L	P
Barium	25	96	mg/L	P
Beryllium	5	95	mg/L	P
Boron	50	97	mg/L	P
Cadmium	15	96	mg/L	P
Calcium	2000	94	mg/L	P
Chromium	120	96	mg/L	P
Cobalt	150	98	mg/L	P
Copper	100	96	mg/L	P
Iron	500	92	mg/L	P
Lead	500	97	mg/L	P
Lithium	20	96	mg/L	P
Magnesium	900	91	mg/L	P
Manganese	30	90	mg/L	P
Molybdenum	100	91	mg/L	P
Nickel	60	95	mg/L	P
Potassium	160	96	mg/L	P
Selenium	15	96	mg/L	P
Silver	10	102	mg/L	P
Silicon	20	90	mg/L	P
Sodium	600	93	mg/L	P
Strontium	5	99	mg/L	P
Thallium	25	99	mg/L	P
Tin	50	95	mg/L	P
Titanium	40	91	mg/L	P
Vanadium	100	90	mg/L	P
Zinc	13	90	mg/L	P
Zirconium	25	104	mg/L	P

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/20/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/21/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols: Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1430																								X							
ICB	*	1	1445																								X							
CRDL	*	1	1453																								X							
CRDL2	*	1	1501																															
ICSA	*	1	1517																								X							
ICSAB	*	1	1524																								X							
CCV	*	1	1530																								X							
CCB	*	1	1550																								X							
CCV	*	1	2133																								X							
CCB	*	1	2139																								X							
MB947881(Dissolved)	*	1	2147																								X							
LCS947882(Dissolved)	*	1	2154																								X							
MAO1MW002(Dissolved)	*	1	2201																								X							
MAO1MW002MS(Dissolved)	*	1	2209																								X							
MAO1MW002MSD(Dissolved)	*	1	2216																								X							
MAO1MW002PDS(Dissolved)	*	1	2223																								X							
MAO1MW002SD(Dissolved)	*	5	2230																								X							
MWQ23(Dissolved)	*	1	2238																								X							
CCV	*	1	2301																								X							
CCB	*	1	2307																								X							
MB948157	*	1	2315																								X							
LCS948158	*	1	2322																								X							
MAO1MW002	*	1	2329																								X							
MAO1MW002MS	*	1	2336																								X							
MAO1MW002MSD	*	1	2344																								X							
MAO1MW002PDS	*	1	2352																								X							
MAO1MW002SD	*	5	2359																								X							

211050608 05/21/11

ANALYSIS RUN LOG

Lab Name: GCAL   Contract: Start Date: 05/20/11

Lab Code: LA024   Case No.:   SAS No.:   SDG No.: 211050608   End Date: 05/21/11

Instrument ID Number: ICP6   Method: SW-846 6010C   Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MWQ23	*	1	0007																								X							
CCV	*	1	0030																								X							
CCB	*	1	0037																								X							

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1144	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ICB	*	1	1159	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CRDL	*	1	1207	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CRDL2	*	1	1213								X																							
ICSA	*	1	1224	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ICSAB	*	1	1230	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1236	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	1254	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1725	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	1732	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MB944905(Dissolved)	*	1	1739	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS944906(Dissolved)	*	1	1746	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001(Dissolved)	*	1	1753	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001-MS(Dissolved)	*	1	1800	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001-MSD(Dissolved)	*	1	1806	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001PDS(Dissolved)	*	1	1813	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001SD(Dissolved)	*	5	1820	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1827																															
MAO2MW001D(Dissolved)	*	1	1833	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW004(Dissolved)	*	1	1840	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	1847	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	1853	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW002(Dissolved)	*	1	1901	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
EB1(Dissolved)	*	1	1907	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW003(Dissolved)	*	1	1915	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW001(Dissolved)	*	1	1922	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW001-DUP(Dissolved)	*	1	1928	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	

1-SCS 05/25/11 211050608

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MAOMW004(Dissolved)	*	1	1935	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAOMW003(Dissolved)	*	1	1942	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MB944933	*	1	1949	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS944934	*	1	1957	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001	*	1	2004	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	2011	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	2018	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001-MS	*	1	2025	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001-MSD	*	1	2032	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001PDS	*	1	2039	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW001SD	*	5	2045	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2052																															
MAO2MW001D	*	1	2059	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW004	*	1	2105	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW002	*	1	2112	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
EB1	*	1	2119	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW003	*	1	2126	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	2133	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	2140	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW001	*	1	2147	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
M114MW001-DUP	*	1	2154	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAOMW004	*	1	2200	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAOMW003	*	1	2208	X	X	X		X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MB947881(Dissolved)	*	1	2215	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS947882(Dissolved)	*	1	2223	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002(Dissolved)	*	1	2229	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002MS(Dissolved)	*	1	2237	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	

SAS 0000477

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/24/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/25/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MAO1MW002MSD(Dissolved)	*	1	2243	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002PDS(Dissolved)	*	1	2250	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	2256	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	2303	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002SD(Dissolved)	*	5	2311	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ23(Dissolved)	*	1	2318	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MB948157	*	1	2326	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
LCS948158	*	1	2334	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002	*	1	2341	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002MS	*	1	2349	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002MSD	*	1	2355	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002PDS	*	1	0003	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MAO1MW002SD	*	5	0009	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ23	*	1	0017	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	0024	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCB	*	1	0031	X	X	X	X	X		X	X	X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	

SDG 211050608

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/25/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/26/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0945				X				X																X							
ICV2	*	1	0952																															
ICB	*	1	1010				X				X																X							
CRDL	*	1	1017				X				X																X							
CRDL2	*	1	1025																															
ICSA	*	1	1040				X				X																X							
ICSAB	*	1	1047				X				X																X							
CCV	*	1	1053				X				X																X							
CCB	*	1	1100				X				X																X							
CCV	*	1	1606				X				X																X							
CCB	*	1	1612				X				X																X							
MB944905(Dissolved)	*	1	1633								X																X							
LCS944906(Dissolved)	*	1	1640																								X							
MAO1MW001(Dissolved)	*	5	1646																								X							
MAO1MW001-MS(Dissolved)	*	5	1654																								X							
MAO1MW001-MSD(Dissolved)	*	5	1701																								X							
EB1(Dissolved)	*	1	1708								X																X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		25	1729																															
CCV	*	1	1742				X				X																X							
CCB	*	1	1748				X				X																X							
MAOMW004(Dissolved)	*	1	1756																								X							
MAOMW003(Dissolved)	*	1	1803																								X							
MAO2MW001D(Dissolved)	*	25	1810																								X							
M114MW004(Dissolved)	*	25	1817																								X							
M114MW002(Dissolved)	*	25	1824																								X							
M114MW003(Dissolved)	*	25	1831																								X							
M114MW001(Dissolved)	*	25	1838																								X							

211050608 SDG

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/25/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/26/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																												
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
M114MW001-DUP(Dissolved)	*	25	1845																							X							
CCV	*	1	1907				X				X															X							
CCB	*	1	1914				X				X															X							
MB944933	*	5	1921				X																			X							
LCS944934	*	5	1929																							X							
MAO1MW001	*	5	1935																							X							
MAO1MW001-MS	*	5	1942																							X							
MAO1MW001-MSD	*	5	1949																							X							
EB1	*	1	1956																							X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		25	2017																														
CCV	*	1	2032				X				X															X							
CCB	*	1	2038				X				X															X							
MAOMW004	*	1	2046																							X							
MAOMW003	*	1	2053																							X							
MAO2MW001D	*	25	2101																							X							
M114MW004	*	25	2108																							X							
M114MW002	*	25	2115																							X							
M114MW003	*	25	2122																							X							
M114MW001	*	25	2129																							X							
M114MW001-DUP	*	25	2136																							X							
CCV	*	1	2159				X				X															X							
CCB	*	1	2206				X				X															X							

SDG 211050608

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/27/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/28/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1103				X																											
ICB	*	1	1121				X																											
CRDL	*	1	1129				X																											
CRDL2	*	1	1135																															
ICSA	*	1	1141				X																											
ICSAB	*	1	1157				X																											
CCV	*	1	1204				X																											
CCB	*	1	1224				X																											
CCV	*	1	1341				X																											
CCB	*	1	1347				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1413																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1421																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1427																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1434																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1441																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1447																															
MAO1MW001	*	1	1454				X																											
MAO1MW001-MS	*	1	1501				X																											
MAO1MW001-MSD	*	1	1508				X																											
CCV	*	1	1515				X																											
CCB	*	1	1521				X																											
MAO2MW001D	*	1	1545				X																											
MAO2MW001DPDS	*	1	1552				X																											
MAO2MW001DSD	*	5	1558				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1605																															
M114MW004	*	1	1612				X																											
M114MW002	*	1	1619				X																											

SDG 211050608

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/27/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/28/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
EB1	*	1	1626				X																											
M114MW003	*	1	1634				X																											
M114MW001	*	1	1641				X																											
CCV	*	1	1647				X																											
CCB	*	1	1653				X																											
M114MW001-DUP	*	1	1701				X																											
MAOMW004	*	1	1708				X																											
MAOMW003	*	1	1715				X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1722																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1730																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1737																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1743																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1750																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1757																															
CCV	*	1	1810				X																											
CCB	*	1	1816				X																											

2255855

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1149																	X												
ICB	*	1	1151																	X												
CCV	*	1	1153																	X												
CCB	*	1	1154																	X												
CCV	*	1	1332																	X												
CCB	*	1	1333																	X												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1335																													
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1336																													
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1338																													
MB945531	*	1	1339																	X												
LCS945532	*	1	1341																	X												
MAO1MW001	*	1	1343																	X												
MAO1MW001-MS	*	1	1344																	X												
MAO1MW001-MSD	*	1	1346																	X												
MA01MW001SD	*	5	1347																	X												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1349																													
CCV	*	1	1351																	X												
CCB	*	1	1352																	X												
MAO2MW001D	*	1	1355																	X												
M114MW004	*	1	1357																	X												
M114MW002	*	1	1358																	X												
EB1	*	1	1400																	X												
M114MW003	*	1	1401																	X												
M114MW001	*	1	1403																	X												
M114MW001-DUP	*	1	1405																	X												
MAOMW004	*	1	1406																	X												
MAOMW003	*	1	1408																	X												

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

Sample No.	PF	D/F	Time	Analyte Symbols																														
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCV	*	1	1411																	X														
CCB	*	1	1413																	X														

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A D Method Type: AV

				Analyte Symbols																																
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1149																	X																
ICB	*	1	1151																	X																
CCV	*	1	1153																	X																
CCB	*	1	1154																	X																
CCV	*	1	1411																	X																
CCB	*	1	1413																	X																
MB946277(Dissolved)	*	1	1417																	X																
LCS946278(Dissolved)	*	1	1419																	X																
MAO1MW001(Dissolved)	*	1	1420																	X																
MAO1MW001-MS(Dissolved)	*	1	1422																	X																
MAO1MW001-MSD(Dissolved)	*	1	1423																	X																
MA01MW001SD(Dissolved)	*	5	1425																	X																
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1427																																	
MAO2MW001D(Dissolved)	*	1	1428																	X																
M114MW004(Dissolved)	*	1	1430																	X																
M114MW002(Dissolved)	*	1	1431																	X																
CCV	*	1	1433																	X																
CCB	*	1	1434																	X																
EB1(Dissolved)	*	1	1436																	X																
M114MW003(Dissolved)	*	1	1437																	X																
M114MW001(Dissolved)	*	1	1439																	X																
M114MW001-DUP(Dissolved)	*	1	1441																	X																
MAOMW004(Dissolved)	*	1	1442																	X																
MAOMW003(Dissolved)	*	1	1444																	X																
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1445																																	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1447																																	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1449																																	

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/16/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/16/11

Instrument ID Number: FIMS1 Method: SW-846 7470A D Method Type: AV

				Analyte Symbols																												
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1450																														
CCV	*	1	1452																	X													
CCB	*	1	1454																	X													

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 05/20/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211050608 End Date: 05/20/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

Analyte Symbols

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn
ICV	*	1	1203																
ICB	*	1	1205																
CCV	*	1	1207																
CCB	*	1	1208																
CCV	*	1	1228																
CCB	*	1	1230																
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1232																
MB947877	*	1	1233																
LCS947878	*	1	1235																
MWQ23	*	1	1237																
MWQ23MS	*	1	1238																
MWQ23MSD	*	1	1240																
MWQ23SD	*	5	1241																
MWQ23(Dissolved)	*	1	1243																
MAO1MW002(Dissolved)	*	1	1244																
MAO1MW002	*	1	1246																
CCV	*	1	1248																
CCB	*	1	1249																

Sample No.	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	X														
ICB	X														
CCV	X														
CCB	X														
CCV	X														
CCB	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ															
MB947877	X														
LCS947878	X														
MWQ23	X														
MWQ23MS	X														
MWQ23MSD	X														
MWQ23SD	X														
MWQ23(Dissolved)	X														
MAO1MW002(Dissolved)	X														
MAO1MW002	X														
CCV	X														
CCB	X														

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GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 13:15	DJH	455813

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	6290	10.0	10.0	mg/L

211050608 406

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/06/2011 15:56	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.56	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:10	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:02	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	2190	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	130	1.0	0.21	mg/L CaCO3

21105060608 419

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:37	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060801	MAO2MW001D	Water	05/05/2011 12:23	05/06/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:11	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 13:30	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7000	10.0	10.0	mg/L

211050608 413

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 15:33	AEL	455837

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.900	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 16:11	AEL	455838

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 12:55	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4180	100	21.0	mg/L
14808-79-8	Sulfate	2110	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	56.6	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/06/2011 09:38	AEL	455820

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060802	M114MW004	Water	05/05/2011 15:16	05/06/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 17:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7800	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:35	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.375	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:14	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:13	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3660	100	21.0	mg/L
14808-79-8	Sulfate	2130	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	69.2	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:00	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060805	M114MW002	Water	05/06/2011 11:35	05/07/2011 08:57

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:14	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 10:15	DJH	455925

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	22.0	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:39	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:18	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 13:30	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.111**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 12:38	DJH	455971

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.21U	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:03	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060806	EB1	Water	05/06/2011 12:30	05/07/2011 08:57

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:15	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9540	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:40	DJH	455918

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.719	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 11:19	DJH	455919

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 13:48	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	4550	100	21.0	mg/L
14808-79-8	Sulfate	2460	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/09/2011 11:15	DJH	455965

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	44.5	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/07/2011 10:04	DJH	455917

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060807	M114MW003	Water	05/06/2011 14:30	05/07/2011 08:57

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:16	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1980	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:37	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.233	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:32	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.004B	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:05	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	651	50.0	10.5	mg/L
14808-79-8	Sulfate	704	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060810	MAO1MW001	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:22	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050608 447

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:41	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.728	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:36	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.488	0.010	0.003	mg/L-N

211050608 449

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 14:58	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1900	50.0	10.5	mg/L
14808-79-8	Sulfate	3260	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:06	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	478	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060811	MAO1MW001-MS	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:23	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0473	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 13:42	AEL	456027

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.729	0.010	0.003	mg/L-N

211050608 453

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 14:37	AEL	456033

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.479	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 15:16	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1890	50.0	10.5	mg/L
14808-79-8	Sulfate	3230	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/10/2011 10:07	MDT	456016

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	495	10.0	2.80	ug/L

211050608 456

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060812	MAO1MW001-MSD	Water	05/09/2011 14:16	05/10/2011 08:50

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:24	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0481	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	MA01MW001-DUP	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1970	10.0	10.0	mg/L

211050608 458

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060813	MA01MW001-DUP	Water	05/09/2011 14:16	05/10/2011 08:50

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8270	10.0	10.0	mg/L

21105060608 459

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	05/11/2011 08:34	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.901	0.050	0.013	mg/L-N

211050608 461

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:50	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:33	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3280	100	21.0	mg/L
14808-79-8	Sulfate	2140	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.1	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:27	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060815	M114MW001	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:25	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	8310	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	05/11/2011 08:40	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.915	0.020	0.005	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:55	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	05/12/2011 15:51	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3250	100	21.0	mg/L
14808-79-8	Sulfate	2150	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	82.1	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 08:29	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060816	M114MW001-DUP	Water	05/09/2011 09:55	05/11/2011 07:25

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:26	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1110	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:06	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.615	0.010	0.003	mg/L-N

211050608 475

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:15	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/12/2011 16:08	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	269	20.0	4.20	mg/L
14808-79-8	Sulfate	352	40.0	15.8	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	192	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:20	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	7.00B	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060818	MAOMW004	Water	05/10/2011 11:11	05/11/2011 08:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0013B	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 15:15	DJH	456092

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1760	10.0	10.0	mg/L

21105060608 481

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:07	AEL	456084

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.163	0.010	0.003	mg/L-N

21105060608 482

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 11:17	AEL	456085

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	05/12/2011 16:26	AEL	456165

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	537	50.0	10.5	mg/L
14808-79-8	Sulfate	616	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/12/2011 09:24	DJH	456175

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	161	1.0	0.21	mg/L CaCO3

211050608 485

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/11/2011 09:21	JEM	456081

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	18.0	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105060819	MAOMW003	Water	05/10/2011 13:20	05/11/2011 08:45

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/12/2011 11:30	455936	SW-846 9012A	1	05/13/2011 16:27	DJH	456300

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1780	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:00	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.325	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:26	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:15	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	473	20.0	4.20	mg/L
14808-79-8	Sulfate	544	40.0	15.8	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	171	1.0	0.21	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170901	MAO1MW002	Water	05/16/2011 09:35	05/17/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:01	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 15:20	DJH	456522

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1420	10.0	10.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:04	AEL	456516

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 16:30	AEL	456519

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	05/19/2011 23:33	AEL	456669

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	235	20.0	4.20	mg/L
14808-79-8	Sulfate	423	40.0	15.8	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/18/2011 14:07	DJH	456595

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	327	1.0	0.21	mg/L CaCO3

211050608 499

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	05/17/2011 10:24	JEM	456466

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	2.80U	10.0	2.80	ug/L

211050608 500

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21105170902	MWQ23	Water	05/16/2011 11:10	05/17/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
05/19/2011 16:30	456439	SW-846 9012A	1	05/23/2011 11:02	AEL	456904

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211050608 501

General Chemistry Quality Control Summary

Analytical Batch 455813	Client ID	MB455813			LCS455813		
Prep Batch N/A	GCAL ID	944788			944789		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 10:40			05/06/2011 10:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1030	103	80 - 120

Analytical Batch 455813	Client ID	MW-10		944726DUP		
Prep Batch N/A	GCAL ID	21105053501		944790		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/06/2011 10:40		05/06/2011 10:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Result**	**RPD**	**RPD Limit**
WET-035 Total Dissolved Solids(TDS)		1484	10.0	1480	0.41	5

Analytical Batch 455925	Client ID	MB455925			LCS455925		
Prep Batch N/A	GCAL ID	945345			945346		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/09/2011 10:15			05/09/2011 10:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	1040	104	80 - 120

Analytical Batch 455925	Client ID	U43010B		945308DUP		
Prep Batch N/A	GCAL ID	21105091101		945347		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 10:15		05/09/2011 10:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Result**	**RPD**	**RPD Limit**
WET-035 Total Dissolved Solids(TDS)		3360	10.0	3360	0	5

General Chemistry Quality Control Summary

Analytical Batch 455925 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	PZP12 21105094605 SAMPLE 05/09/2011 18:45 Water		PZP12 DUP 21105094611 DUP 05/09/2011 18:45 Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Result**	**RPD**	**RPD Limit**
WET-035	Total Dissolved Solids(TDS)	762	10.0	736	3.5	5

Analytical Batch 456092 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456092 946016 Method Blank 05/11/2011 15:15 Water			LCS456092 946017 LCS 05/11/2011 15:15 Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	950	95	80 - 120

Analytical Batch 456092 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MA01MW001 21105060810 SAMPLE 05/11/2011 15:15 Water		MA01MW001-DUP 21105060813 DUP 05/11/2011 15:15 Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Result**	**RPD**	**RPD Limit**
WET-035	Total Dissolved Solids(TDS)	1984	10.0	1970	0.51	5

Analytical Batch 456522 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB456522 948025 Method Blank 05/17/2011 15:20 Water			LCS456522 948026 LCS 05/17/2011 15:20 Water		
SM 2540C TDS		**Units** **Result**	mg/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1040	104	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456522 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	U43010B 21105171503 SAMPLE 05/17/2011 15:20 Water		947808DUP 948027 DUP 05/17/2011 15:20 Water		
SM 2540C TDS			**Units** **Result**	mg/L **RDL**	**Result**	**RPD**	**RPD Limit**
WET-035	Total Dissolved Solids(TDS)		3528	10.0	3470	1.7	5

General Chemistry Quality Control Summary

Analytical Batch 455837 Prep Batch N/A	Client ID	MB455837			LCS455837		
	GCAL ID	944981			944982		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 15:24			05/06/2011 15:25		
	Matrix	Water			Water		
EPA 353.2 Nitrate	Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	
14797-55-8 Nitrate	0.003U	0.003	0.500	0.498	100	89.5 -110.5	

Analytical Batch 455837 Prep Batch N/A	Client ID	MWQ-2			944805MS			944805MSD			
	GCAL ID	21105042611			944983			944984			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 15:28			05/06/2011 15:29			05/06/2011 15:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate	Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate	0.244	0.003	0.500	0.752	102	89.5 -110.5	0.751	101	0.2	25

Analytical Batch 455838 Prep Batch N/A	Client ID	MB455838			LCS455838		
	GCAL ID	944985			944986		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 16:04			05/06/2011 16:05		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	
14797-65-0 Nitrite	ND	0.003	0.500	0.507	101	89.5 -110.5	

Analytical Batch 455838 Prep Batch N/A	Client ID	MWQ-2			944805MS			944805MSD			
	GCAL ID	21105042611			944987			944988			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 16:06			05/06/2011 16:08			05/06/2011 16:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite	-0.002	0.003	0.500	0.491	98	89.5 -110.5	0.490	98	0.08	25

General Chemistry Quality Control Summary

Analytical Batch 455918	Client ID	MB455918			LCS455918		
Prep Batch N/A	GCAL ID	945319			945320		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 10:31			05/07/2011 10:33		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.539	108	89.5 -110.5

Analytical Batch 455918	Client ID	M114MW002			945264MS			945264MSD			
Prep Batch N/A	GCAL ID	21105060805			945321			945322			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 10:35			05/07/2011 10:36			05/07/2011 10:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.375	0.003	0.500	0.839	93	89.5 -110.5	0.838	93	0.1	25

Analytical Batch 455919	Client ID	MB455919			LCS455919		
Prep Batch N/A	GCAL ID	945323			945324		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 11:10			05/07/2011 11:13		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.003U	0.003	0.500	0.503	101	89.5 -110.5

Analytical Batch 455919	Client ID	M114MW002			945264MS			945264MSD			
Prep Batch N/A	GCAL ID	21105060805			945325			945326			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/07/2011 11:14			05/07/2011 11:15			05/07/2011 11:16			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.004	0.003	0.500	0.468	93	89.5 -110.5	0.468	93	0.02	25

General Chemistry Quality Control Summary

Analytical Batch 456027	Client ID	MB456027			LCS456027		
Prep Batch N/A	GCAL ID	945750			945751		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 13:25			05/10/2011 13:27		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.488	98	89.5 -110.5

Analytical Batch 456027	Client ID	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	GCAL ID	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 13:37			05/10/2011 13:41			05/10/2011 13:42			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.233	0.003	0.500	0.728	99	89.5 -110.5	0.729	99	0.1	25

Analytical Batch 456033	Client ID	MB456033			LCS456033		
Prep Batch N/A	GCAL ID	945765			945766		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/10/2011 14:22			05/10/2011 14:23		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.004B	0.003	0.500	0.506	101	89.5 -110.5

Analytical Batch 456033	Client ID	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch N/A	GCAL ID	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/10/2011 14:32			05/10/2011 14:36			05/10/2011 14:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.004	0.003	0.500	0.488	97	89.5 -110.5	0.479	95	2	25

General Chemistry Quality Control Summary

Analytical Batch 456084	Client ID	MB456084			LCS456084		
Prep Batch N/A	GCAL ID	945983			945984		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:25			05/11/2011 08:26		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.473	95	89.5 -110.5

Analytical Batch 456084	Client ID	M114MW001			945961MS			945961MSD			
Prep Batch N/A	GCAL ID	21105060815			945985			945986			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:34			05/11/2011 08:35			05/11/2011 08:36			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.901	0.013	2.50	3.21	93	89.5 -110.5	3.19	92	0.6	25

Analytical Batch 456085	Client ID	MB456085			LCS456085		
Prep Batch N/A	GCAL ID	945987			945988		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/11/2011 08:48			05/11/2011 08:49		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.003U	0.003	0.500	0.511	102	89.5 -110.5

Analytical Batch 456085	Client ID	M114MW001			945961MS			945961MSD			
Prep Batch N/A	GCAL ID	21105060815			945989			945990			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/11/2011 08:50			05/11/2011 08:52			05/11/2011 08:53			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.000	0.003	0.500	0.486	97	89.5 -110.5	0.491	98	0.9	25

General Chemistry Quality Control Summary

Analytical Batch 456516 / Prep Batch N/A	Client ID	MB456516	LCS456516
	GCAL ID	948012	948013
	Sample Type	Method Blank	LCS
	Analytical Date	05/17/2011 15:56	05/17/2011 15:57
	Matrix	Water	Water

EPA 353.2 Nitrate	Units / Result	mg/L-N / RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate	0.003U	0.003	0.500	0.543	108	89.5 -110.5

Analytical Batch 456516 / Prep Batch N/A	Client ID	MAO1MW002	947762MS	947762MSD
	GCAL ID	21105170901	948014	948015
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/17/2011 16:00	05/17/2011 16:01	05/17/2011 16:02
	Matrix	Water	Water	Water

EPA 353.2 Nitrate	Units / Result	mg/L-N / RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate	0.325	0.003	0.500	0.775	90	89.5 -110.5	0.776	90	0.1	25

Analytical Batch 456519 / Prep Batch N/A	Client ID	MB456519	LCS456519
	GCAL ID	948018	948019
	Sample Type	Method Blank	LCS
	Analytical Date	05/17/2011 16:24	05/17/2011 16:25
	Matrix	Water	Water

EPA 353.2 Nitrite	Units / Result	mg/L-N / RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite	0.003U	0.003	0.500	0.477	95	89.5 -110.5

Analytical Batch 456519 / Prep Batch N/A	Client ID	MAO1MW002	947762MS	947762MSD
	GCAL ID	21105170901	948020	948021
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/17/2011 16:26	05/17/2011 16:27	05/17/2011 16:29
	Matrix	Water	Water	Water

EPA 353.2 Nitrite	Units / Result	mg/L-N / RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite	0.000	0.003	0.500	0.479	96	89.5 -110.5	0.480	96	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 456165 Prep Batch N/A	Client ID	MB456165			LCS456165		
	GCAL ID	946299			946300		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/12/2011 11:27			05/12/2011 11:44		
	Matrix	Water			Water		
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
16887-00-6	Chloride	0.021U	0.021	2.50	2.43	97.1	79 - 109
14808-79-8	Sulfate	0.079U	0.079	5.00	5.05	101	82 - 110

Analytical Batch 456165 Prep Batch N/A	Client ID	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
	GCAL ID	21105060810			21105060811			21105060812			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 14:05			05/12/2011 14:58			05/12/2011 15:16			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride	651	10.5	1250	1900	99.9	79 - 109	1890	99.2	0.48	15
14808-79-8	Sulfate	704	39.5	2500	3260	102	82 - 110	3230	101	0.72	15

Analytical Batch 456165 Prep Batch N/A	Client ID	MAO2MW001D			944806MS			944806MSD			
	GCAL ID	21105060801			946301			946302			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/12/2011 12:02			05/12/2011 12:20			05/12/2011 12:37			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride	2190	21.0	2500	4680	99.5	79 - 109	4640	97.8	0.89	15
14808-79-8	Sulfate	2130	79.0	5000	7220	102	82 - 110	7280	103	0.81	15

General Chemistry Quality Control Summary

Analytical Batch 456669 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MB456669 948789 Method Blank 05/19/2011 17:40 Water			LCS456669 948790 LCS 05/19/2011 17:58 Water		
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
16887-00-6	Chloride		0.021U	0.021	2.50	2.41	96.4	79 - 109
14808-79-8	Sulfate		0.079U	0.079	5.00	4.91	98.3	82 - 110

Analytical Batch 456669 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	E16A 21105122833 SAMPLE 05/19/2011 18:15 Water			946542MS 948791 MS 05/19/2011 18:33 Water			946542MSD 948792 MSD 05/19/2011 18:51 Water			
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride		123	1.68	200	326	101	79 - 109	326	102	0.15	15
14808-79-8	Sulfate		76.7	6.32	400	490	103	82 - 110	490	103	0.071	15

Analytical Batch 456669 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MWL6 21105190401 SAMPLE 05/20/2011 01:01 Water			948703MS 948793 MS 05/20/2011 01:18 Water			948703MSD 948794 MSD 05/20/2011 01:36 Water			
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride		107	1.05	125	234	101	79 - 109	234	102	0.14	15
14808-79-8	Sulfate		216	3.95	250	470	102	82 - 110	468	101	0.49	15

General Chemistry Quality Control Summary

Analytical Batch 455965	Client ID	LCS455965			
Prep Batch N/A	GCAL ID	945466			
	Sample Type	LCS			
	Analytical Date	05/09/2011 11:15			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	206	103	80 - 120

Analytical Batch 455965	Client ID	M114MW002		945264DUP		
Prep Batch N/A	GCAL ID	21105060805		945467		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/09/2011 11:15		05/09/2011 11:15		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units Result**	mg/L CaCO3 **RDL**	**Result**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		69.15	0.21	70.4	2	11

Analytical Batch 455971	Client ID	LCS455971				LCSD455971			
Prep Batch N/A	GCAL ID	945486				945487			
	Sample Type	LCS				LCSD			
	Analytical Date	05/09/2011 12:38				05/09/2011 12:38			
	Matrix	Water				Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		10.0	9.3	93	80 - 120	9.3	93	0.1	11

Analytical Batch 456175	Client ID	LCS456175			
Prep Batch N/A	GCAL ID	946355			
	Sample Type	LCS			
	Analytical Date	05/12/2011 09:24			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	200	100	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456175	Client ID	MAO1MW001		MA01MW001-DUP		
Prep Batch N/A	GCAL ID	21105060810		21105060813		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/12/2011 09:24		05/12/2011 09:24		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units** mg/L CaCO3 **Result**	**RDL**	**Result**	**RPD**	**RPD Limit**
000000-00-5	Total Alkalinity	169.49	0.21	171	0.8	11

Analytical Batch 456595	Client ID	LCS456595			
Prep Batch N/A	GCAL ID	948433			
	Sample Type	LCS			
	Analytical Date	05/18/2011 14:07			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5	Total Alkalinity	200	200	100	80 - 120

Analytical Batch 456595	Client ID	TK-471		948229DUP		
Prep Batch N/A	GCAL ID	21105181102		948434		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/18/2011 14:07		05/18/2011 14:07		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units** mg/L CaCO3 **Result**	**RDL**	**Result**	**RPD**	**RPD Limit**
000000-00-5	Total Alkalinity	308.32	0.21	309	0.3	11

General Chemistry Quality Control Summary

Analytical Batch 455820	Client ID	MB455820			LCS455820		
Prep Batch N/A	GCAL ID	944855			944856		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/06/2011 09:34			05/06/2011 09:35		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI	2.80U	2.80	500	538	108	80 - 120

Analytical Batch 455820	Client ID	M114MW004			944807MS			944807MSD			
Prep Batch N/A	GCAL ID	21105060802			944857			944858			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	05/06/2011 09:38			05/06/2011 09:39			05/06/2011 09:40			
	Matrix	Water			Water			Water			
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
18540-29-9	Chromium VI	0.000	2.80	500	453	91	80 - 120	457		0.9	20

Analytical Batch 455917	Client ID	MB455917			LCS455917		
Prep Batch N/A	GCAL ID	945315			945316		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/07/2011 09:58			05/07/2011 09:58		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI	2.80U	2.80	500	458	92	80 - 120

Analytical Batch 455917	Client ID	M114MW002			945264MS		
Prep Batch N/A	GCAL ID	21105060805			945317		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/07/2011 10:00			05/07/2011 10:01		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI	0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 455917	Client ID	M114MW002	945264DUP
Prep Batch N/A	GCAL ID	21105060805	945318
	Sample Type	SAMPLE	DUP
	Analytical Date	05/07/2011 10:00	05/07/2011 10:02
	Matrix	Water	Water

SW-846 7196A Chromium VI	Units	ug/L	Result	RPD	RPD Limit
	Result	RDL			
18540-29-9 Chromium VI	0.000	2.80	0.000	0	25

Analytical Batch 456016	Client ID	MB456016	LCS456016
Prep Batch N/A	GCAL ID	945708	945709
	Sample Type	Method Blank	LCS
	Analytical Date	05/10/2011 10:04	05/10/2011 10:05
	Matrix	Water	Water

SW-846 7196A Chromium VI	Units	ug/L	Spike	Result	% R	Control Limits % R
	Result	RDL	Added			
18540-29-9 Chromium VI	2.80U	2.80	500	484	97	80 - 120

Analytical Batch 456016	Client ID	MAO1MW001	MAO1MW001-MS	MAO1MW001-MSD
Prep Batch N/A	GCAL ID	21105060810	21105060811	21105060812
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	05/10/2011 10:06	05/10/2011 10:06	05/10/2011 10:07
	Matrix	Water	Water	Water

SW-846 7196A Chromium VI	Units	ug/L	Spike	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
	Result	RDL	Added							
18540-29-9 Chromium VI	0.000	2.80	500	478	96	80 - 120	495		3	20

Analytical Batch 456081	Client ID	MB456081	LCS456081
Prep Batch N/A	GCAL ID	945975	945976
	Sample Type	Method Blank	LCS
	Analytical Date	05/11/2011 08:26	05/11/2011 08:26
	Matrix	Water	Water

SW-846 7196A Chromium VI	Units	ug/L	Spike	Result	% R	Control Limits % R
	Result	RDL	Added			
18540-29-9 Chromium VI	2.80U	2.80	500	494	99	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456081	Client ID	M114MW001			945961MS		
Prep Batch N/A	GCAL ID	21105060815			945978		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/11/2011 08:27			05/11/2011 08:27		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		0.000	2.80	500	499	100	80 - 120

Analytical Batch 456081	Client ID	M114MW001		945961DUP		
Prep Batch N/A	GCAL ID	21105060815		945977		
	Sample Type	SAMPLE		DUP		
	Analytical Date	05/11/2011 08:27		05/11/2011 08:27		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	Result	RPD	RPD Limit
18540-29-9 Chromium VI		0.000	2.80	0.000	0	25

Analytical Batch 456466	Client ID	MB456466			LCS456466		
Prep Batch N/A	GCAL ID	947770			947771		
	Sample Type	Method Blank			LCS		
	Analytical Date	05/17/2011 10:23			05/17/2011 10:23		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		2.80U	2.80	500	513	103	80 - 120

Analytical Batch 456466	Client ID	MWQ23			947763MS		
Prep Batch N/A	GCAL ID	21105170902			947773		
	Sample Type	SAMPLE			MS		
	Analytical Date	05/17/2011 10:24			05/17/2011 10:25		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		0.000	2.80	500	530	106	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 456466	Client ID	MWQ23	947763DUP
Prep Batch N/A	GCAL ID	21105170902	947772
	Sample Type	SAMPLE	DUP
	Analytical Date	05/17/2011 10:24	05/17/2011 10:25
	Matrix	Water	Water

SW-846 7196A Chromium VI		Units	ug/L			
		Result	RDL	Result	RPD	RPD Limit
18540-29-9	Chromium VI	0.000	2.80	0.000	0	25

21105170902 05/17/11 15:

General Chemistry Quality Control Summary

Analytical Batch	456300	Client ID	MB455936			LCS455936		
Prep Batch	455936	GCAL ID	945393			945394		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCS		
		Prep Date	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 16:08		
		Matrix	Water			Water		
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
57-12-5	Total Cyanide		0.0006U	0.0006	0.0200	0.0214	107	80 - 120

Analytical Batch	456300	Client ID	MB455936			LCSHI455936		
Prep Batch	455936	GCAL ID	945393			945395		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCSHI		
		Prep Date	05/12/2011 11:30			05/12/2011 11:30		
		Analytical Date	05/13/2011 16:07			05/13/2011 17:15		
		Matrix	Water			Water		
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
57-12-5	Total Cyanide		0.0006U	0.0006	0.1000	0.1174	117	80 - 120

Analytical Batch	456300	Client ID	MAO1MW001			MAO1MW001-MS			MAO1MW001-MSD			
Prep Batch	455936	GCAL ID	21105060810			21105060811			21105060812			
Prep Method	SW-846 9012A	Sample Type	SAMPLE			MS			MSD			
		Prep Date	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/13/2011 16:22			05/13/2011 16:23			05/13/2011 16:24			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
57-12-5	Total Cyanide		0.0000	0.0006	0.0500	0.0473	95	80 - 120	0.0481	96	2	20

General Chemistry Quality Control Summary

Analytical Batch	456455	Client ID	301-128			301-128 MS			301-128 MSD			
Prep Batch	455936	GCAL ID	21105093001			21105093002			21105093003			
Prep Method	SM 4500 CN E	Sample Type	SAMPLE			MS			MSD			
		Prep Date	05/12/2011 11:30			05/12/2011 11:30			05/12/2011 11:30			
		Analytical Date	05/17/2011 09:28			05/17/2011 09:29			05/17/2011 09:30			
		Matrix	Water			Water			Water			
SW-846 9012A Cyanide		Units	mg/L									
		Result	RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit	
57-12-5	Total Cyanide	0.0010	0.0006	0.0500	0.0424	83	80 - 120	0.0421	82	0.7	20	

Analytical Batch	456904	Client ID	MB456439		LCS456439			
Prep Batch	456439	GCAL ID	947658		947659			
Prep Method	SW-846 9012A	Sample Type	Method Blank		LCS			
		Prep Date	05/19/2011 16:30		05/19/2011 16:30			
		Analytical Date	05/23/2011 10:50		05/23/2011 10:51			
		Matrix	Water		Water			
SW-846 9012A Cyanide		Units	mg/L					
		Result	RDL	Spike Added	Result	% R	Control Limits % R	
57-12-5	Total Cyanide	0.0006U	0.0006	0.0200	0.0176	88	80 - 120	

Analytical Batch	456904	Client ID	MB456439		LCSHI456439			
Prep Batch	456439	GCAL ID	947658		947660			
Prep Method	SW-846 9012A	Sample Type	Method Blank		LCSHI			
		Prep Date	05/19/2011 16:30		05/19/2011 16:30			
		Analytical Date	05/23/2011 10:50		05/23/2011 10:52			
		Matrix	Water		Water			
SW-846 9012A Cyanide		Units	mg/L					
		Result	RDL	Spike Added	Result	% R	Control Limits % R	
57-12-5	Total Cyanide	0.0006U	0.0006	0.1000	0.0872	87	80 - 120	

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General Chemistry Quality Control Summary

Analytical Batch	456904	Client ID	MWQ-14		MWQ14-MS			MWQ14-MSD			
Prep Batch	456439	GCAL ID	21105042616		21105042617			21105042618			
Prep Method	SW-846	Sample Type	SAMPLE		MS			MSD			
	9012A	Prep Date	05/19/2011 16:30		05/19/2011 16:30			05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59		05/23/2011 10:55			05/23/2011 10:56			
		Matrix	Water		Water			Water			
SW-846 9012A Cyanide		Units	mg/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
57-12-5	Total Cyanide	0.0000	0.0006	0.0500	0.0396	79*	80 - 120	0.0398	80	0.5	20

Analytical Batch	456904	Client ID	MWQ-14	947214DUP			
Prep Batch	456439	GCAL ID	21105042616	947661			
Prep Method	SW-846	Sample Type	SAMPLE	DUP			
	9012A	Prep Date	05/19/2011 16:30	05/19/2011 16:30			
		Analytical Date	05/23/2011 10:59	05/23/2011 11:00			
		Matrix	Water	Water			
SW-846 9012A Cyanide		Units	mg/L	Result	RPD	RPD	
		Result	RDL			Limit	
57-12-5	Total Cyanide	0.0000	0.0006	0.0000	0	25	

211050608 S25

HACH #: 04

STANDARD IDs

Analyst: AEL/JEm
Date: 5-6-11
HBN#: 455820
Batch#: 8610

SULFIDE 4500 S D/HACH 8131

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Sulfide Reagent 1 Lot#
- Sulfide Reagent 2 Lot#
- H2SO4 1:1 Lot#
- Calibration Date
- Calibration Expiration Date

SULFATE 300.0/9038

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Conditioning Reagent Lot#
- Barium Chloride Lot #
- Calibration Date
- Calibration Expiration Date

FLUORIDE 4500 F D

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- SPADS Lot#
- Calibration Date
- Calibration Expiration Date

COD HACH 8000

- COD Reactor #
- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot#
- ICV Expiration Date
- COD Vials Lot#
- Calibration Date
- Calibration Expiration Date
- Digestion Start/Stop Time
- Digestion Temperature (°C)

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

- CCV Lot# 2110023
- CCV Expiration Date 11-12
- ICV/LCS Lot # 2110020
- ICV Expiration Date 1-30-12
- Powder Pillow Lot # 2110081
- Calibration Date 1-12-11
- Calibration Expiration Date 1-12-12
- pH meter pH07
- .45 um Filter Lot # RQJA54556

ORTHOPHOSPHATE 365.1

- CCV Lot#
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Powder Pillow Lot #
- Calibration Date
- Calibration Expiration Date

CHLORINE (Total Residual/Free) 4500-CL G

- CCV Lot#
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Powder Pillow Lot #
- Calibration Date
- Calibration Expiration Date

Ferrous Iron 3500-Fe D

- CCV Expiration Date
- CCV Lot#
- ICV/LCS Lot#
- ICV Expiration Date
- Ferrous Ammonia Acetate Lot#
- Phenanthroline Lot#
- Calibration Date
- Calibration Expiration Date

REVIEWED BY: BMC 5/9/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	HACH4	Serial	Operator	Program	Dilution factor	Abs	%T
05/06/2011 09:33	Cr6	0.5	mg/L 100%	CCV	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.952	11.2
05/06/2011 09:34	Cr6	-0.011	mg/L	CCB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.003	100.7
05/06/2011 09:34	Cr6	-0.011	mg/L	944855 MB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.004	100.9
05/06/2011 09:35	Cr6	0.538	mg/L 108%	944856 LCS	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	1.025	9.4
05/06/2011 09:36	Cr6	0.003	mg/L	21105042611	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.024	94.6
05/06/2011 09:37	Cr6	-0.021	mg/L	21105060801	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.022	105.2
05/06/2011 09:38	Cr6	-0.002	mg/L	21105060802	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.014	96.8
05/06/2011 09:39	Cr6	0.453	mg/L 91%	944857 MS	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.865	13.6
05/06/2011 09:40	Cr6	0.457	mg/L 91%	944858 MSD	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.873	13.4
05/06/2011 09:41	Cr6	0.504	mg/L 101%	CCV	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	0.96	11
05/06/2011 09:41	Cr6	-0.01	mg/L	CCB	8610	HACH4	1199649	AEL	HEX.CHROMIUM1/12/11	1	-0.001	100.2

21105060 522

HACH #: 04

STANDARD IDs

Analyst: DJH
Date: 5/7/11
HBN#: 455917
Batch#: 8612

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11/12
ICV/LCS Lot #	2110020
ICV Expiration Date	1/30/12
Powder Pillow Lot #	2110081
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	0274239

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 5/9/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Operator	Program	Dilution factor	Abs	%T
05/07/2011 09:57	Cr6	0.473	mg/L	CCV 95%	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.903	12.5
05/07/2011 09:57	Cr6	-0.009	mg/L	CCB	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0	100
05/07/2011 09:58	Cr6	-0.009	mg/L	945315 MB	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0	100
05/07/2011 09:58	Cr6	0.458	mg/L	945316 LCS 92%	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.874	13.4
05/07/2011 10:00	Cr6	0.002	mg/L	21105060805	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.022	95.1
05/07/2011 10:01	Cr6	0.53	mg/L	945317 MS 106%	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	1.009	9.8
05/07/2011 10:02	Cr6	0	mg/L	945318 Dup	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.018	95.9
05/07/2011 10:03	Cr6	-0.009	mg/L	21105060806	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.001	99.8
05/07/2011 10:04	Cr6	-0.003	mg/L	21105060807	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.012	97.3
05/07/2011 10:05	Cr6	0.481	mg/L	CCV 96%	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.917	12.1
05/07/2011 10:05	Cr6	-0.007	mg/L	CCB	8612	HACH4	DJH	HEX.CHROMIUM1/12/11	1	0.005	98.9

21105060 524

HACH #: 04

STANDARD IDs

Analyst: MDT
Date: 5-11-11
HBN#: 456016
Batch#: 8614

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-11
pH meter	ph07
.45 um Filter Lot #	ROJA54556

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 5/10/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrumen	Serial	Operator	Program	Dilution fa	Abs	%T
05/10/2011 10:03	Cr6	0.495	mg/L 9970	CCV	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.943	11.4
05/10/2011 10:04	Cr6	-0.007	mg/L <0.1	CCB	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.004	99.1
05/10/2011 10:04	Cr6	-0.007	mg/L <0.1	945708	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.004	99.1
05/10/2011 10:05	Cr6	0.484	mg/L 9970	945709	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.923	11.9
05/10/2011 10:06	Cr6	-0.01	mg/L Sample	21105060810	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.001	100.2
05/10/2011 10:06	Cr6	0.478	mg/L MS 9970	21105060811	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.911	12.3
05/10/2011 10:07	Cr6	0.495	mg/L MSD	21105060812	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.943	11.4
05/10/2011 10:07	Cr6	0.496	mg/L .9970	CCV	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.945	11.4
05/10/2011 10:08	Cr6	-0.009	mg/L	CCB	HACH4	8614	1199649	MDT	HEX.CHROMIUM1/12/11	1	0	100

21105060809 525

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-11-10
HBN#: 456081
Batch#: 8617

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110146
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	PH07
.45 um Filter Lot #	

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Jome 5/11/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/11/2011 08:25	Cr6	0.509	mg/L 102%	CCV	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.97	10.7
05/11/2011 08:26	Cr6	-0.007	mg/L	CCB	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.004	99.1
05/11/2011 08:26	Cr6	-0.007	mg/L	945975 MD	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.004	99.1
05/11/2011 08:26	Cr6	0.494	mg/L 99%	945976 LCS	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.942	11.4
05/11/2011 08:27	Cr6	-0.003	mg/L	21105060815	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.011	97.5
05/11/2011 08:27	Cr6	-0.004	mg/L 0% RPD	945977 dup	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.011	97.5
05/11/2011 08:27	Cr6	0.499	mg/L 100%	945978 MS	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.952	11.2
05/11/2011 08:29	Cr6	-0.003	mg/L	21105060816	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.012	97.3
05/11/2011 08:29	Cr6	0.499	mg/L 100%	CCV	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.951	11.2
05/11/2011 08:30	Cr6	-0.007	mg/L	CCB	8617	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.005	98.9

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/11/2011 09:19	Cr6	0.489	mg/L 98%	CCV	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.932	11.7
05/11/2011 09:20	Cr6	-0.005	mg/L	CCB	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
05/11/2011 09:20	Cr6	0.007	mg/L	21105060818	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.031	93.1
05/11/2011 09:21	Cr6	0.018	mg/L	21105060819	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.051	88.9
05/11/2011 09:23	Cr6	0.492	mg/L 98%	CCV	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.939	11.5
05/11/2011 09:23	Cr6	-0.005	mg/L	CCB	8617	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.009	97.9

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 1-12-11
HBN#: NA
Batch#: NA

SULFIDE 4500 S D/HACH 8131

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE 300.0/9038

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE 4500 F D

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD HACH 8000

COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

Revision 7: 1/5/11

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	ROJA54556

ORTHOPHOSPHATE 365.1

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free) 4500-CL G

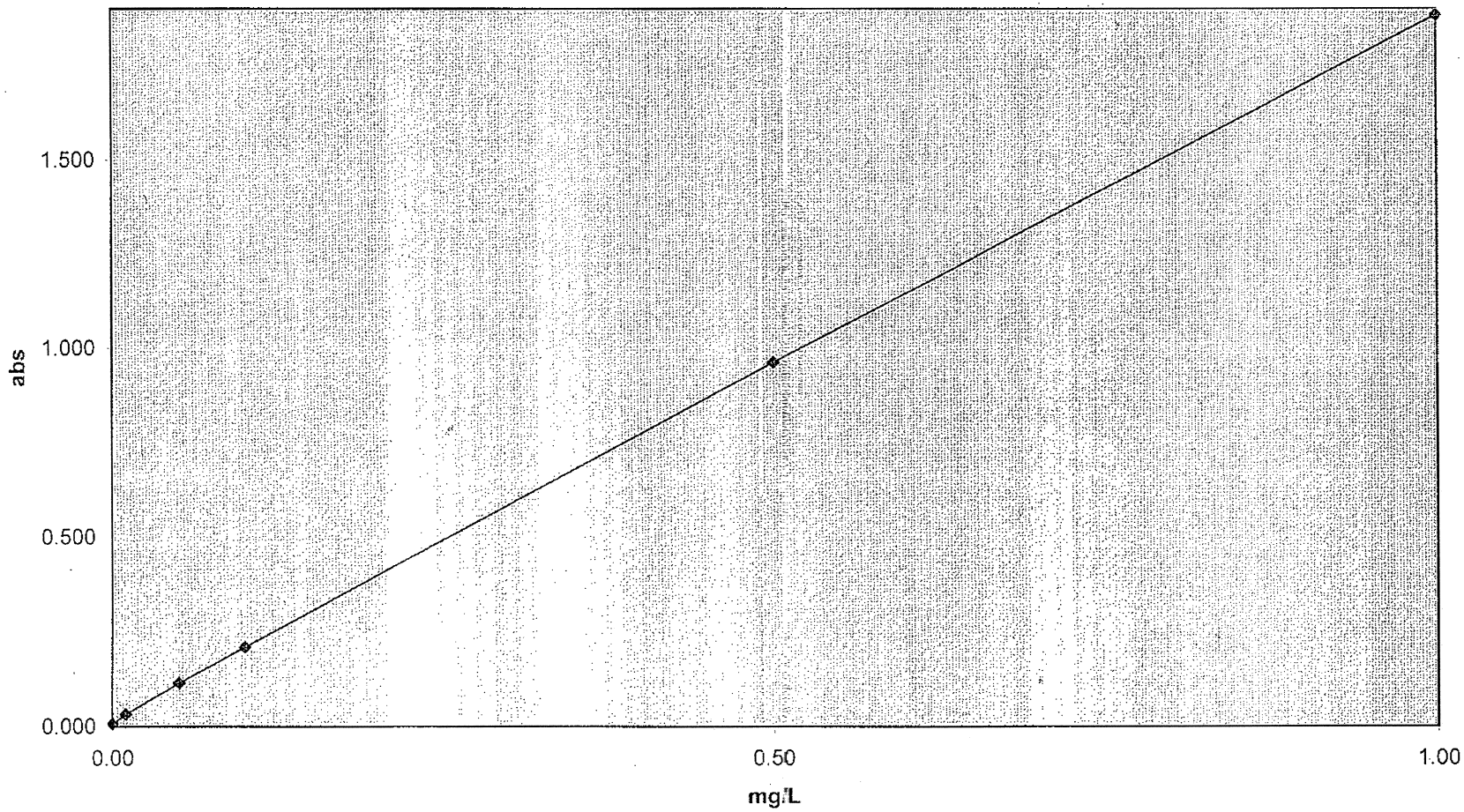
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron 3500-Fe D

CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: JDT 1/13/11

HACH 04
Hexavalent Chromium
r^2=0.9999



TSS 00001717

Test Hex. Chrom.
Calibration Date 1-12-11
Calibration Time 11:20
Analyst JEM

HACH 04

	Conc	Abs
1	0	0.008
2	0.01	0.033
3	0.05	0.116
4	0.10	0.209
5	0.50	0.962
6	1.0	1.883
7	—	—

JDT 1/13/11

R factor 0.9999

Secondary Review
JDT 1/13/11

Saved as: 110112HEXHACH04ICV

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
01/12/2011 12:57	Cr6	0.507	mg/L 101%	ICV 0.5PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.965	10.8
01/12/2011 12:59	Cr6	-0.005	mg/L	ICB	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
01/12/2011 13:00	Cr6	0.006	mg/L 60%	LLCK 0.01PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.028	93.8

HACH04

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 5-17-11
HBN#: 456466
Batch#: 8632

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110081
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	PH07
.45 um Filter Lot #	RIDA40441

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: bmc 5/17/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
05/17/2011 10:22	Cr6	0.504	mg/L	101% CCV	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.96	11
05/17/2011 10:22	Cr6	-0.005	mg/L	CCB	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
05/17/2011 10:23	Cr6	-0.005	mg/L	947770 MB	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.007	98.4
05/17/2011 10:23	Cr6	0.513	mg/L	103% 947771 LCS	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.978	10.5
05/17/2011 10:24	Cr6	-0.004	mg/L	21105170901	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.01	97.7
05/17/2011 10:24	Cr6	-0.005	mg/L	21105170902	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.009	97.9
05/17/2011 10:25	Cr6	-0.005	mg/L	947772 dup	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
05/17/2011 10:25	Cr6	0.53	mg/L	106% 947773 MS	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	1.009	9.8
05/17/2011 10:26	Cr6	0.009	mg/L	21105170201	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.034	92.5
05/17/2011 10:26	Cr6	0.01	mg/L	21105170202	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.036	92
05/17/2011 10:26	Cr6	0.01	mg/L	21105170203	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.037	91.8
05/17/2011 10:27	Cr6	0.01	mg/L	21105170204	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.035	92.3
05/17/2011 10:27	Cr6	0.506	mg/L	101% CCV	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.964	10.9
05/17/2011 10:27	Cr6	-0.006	mg/L	CCB	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
05/17/2011 10:33	Cr6	0.012	mg/L	21105170205	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.04	91.2
05/17/2011 10:33	Cr6	0.012	mg/L	21105170206	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.04	91.2
05/17/2011 10:33	Cr6	0.012	mg/L	21105170207	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.039	91.4
05/17/2011 10:34	Cr6	0.01	mg/L	21105170208	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.036	92
05/17/2011 10:34	Cr6	0.501	mg/L	100% CCV	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.955	11.1
05/17/2011 10:34	Cr6	-0.006	mg/L	CCB	8632	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6

21105170208 935

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-6-11

HBN #: 455837 / 455838 / 455840

Batch #: 9532 / 9537 / 9534

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.1 IN H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	210000
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	101

Reviewed By: BMC 5/6/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0025	0	0.0025	
LCS	0.4982	0.5070	0.4982	100
21105042611	0.2435	0	0.2435	
MS	0.7521	0.4906	0.7521	102
MSD	0.7505	0.4902	0.7505	101
21105060801	1.5680	0.0039	1.5641	
21105060802	0.9045	0.0044	0.9001	

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/06/2011

Original Run Filename: OM_05-06-2011_15-21-06.OMN created 05/06/2011 15:21:06
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_15-21-06.OMN last modified 05/06/2011 15:53:24
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4970	05/06/2011@15:21:47		99
Known Conc:		0.5000			
1900	1	0.0037	05/06/2011@15:23:03		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
944981 BLK	1	0.0025	05/06/2011@15:24:18		
944982 LCS	1	0.4982	05/06/2011@15:25:33		100
LCS N02	1	0.4915	05/06/2011@15:26:48		98
21105042611	1	0.2435	05/06/2011@15:28:04		
944983 MS	1	0.7521	05/06/2011@15:29:19		102
944984 MSD	1	0.7505	05/06/2011@15:30:34		101
~~21105060801~~	1	4.3703	05/06/2011@15:31:49		RR
21105060802	1	0.9045	05/06/2011@15:33:04		
944991 BLK	1	0.0032	05/06/2011@15:34:19		
944992 LCS	1	0.5002	05/06/2011@15:35:34		100
1800	1	0.5032	05/06/2011@15:36:48		101
Known Conc:		0.5000			
1900	1	0.0036	05/06/2011@15:38:03		
Known Conc:		0.0000			
21105045001	1	-0.5201	05/06/2011@15:39:17	10.00	
21105050801	1	5.7879	05/06/2011@15:40:33	50.00	RR
944993 MS	1	31.6656	05/06/2011@15:41:49	50.00	
944994 MSD	1	31.6358	05/06/2011@15:43:05	50.00	
~~21105060802~~	1	0.2584	05/06/2011@15:44:20	10.00	First run OK
21105050801	1	6.9832	05/06/2011@15:45:36	20.00	
944993 MS	1	17.2318	05/06/2011@15:46:51	20.00	102
944994 MSD	1	17.2002	05/06/2011@15:48:06	20.00	102
21105060801	1	1.3932	05/06/2011@15:49:21	10.00	RR
1800	1	0.4993	05/06/2011@15:50:36		100
Known Conc:		0.5000			
1900	1	0.0005	05/06/2011@15:51:52		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

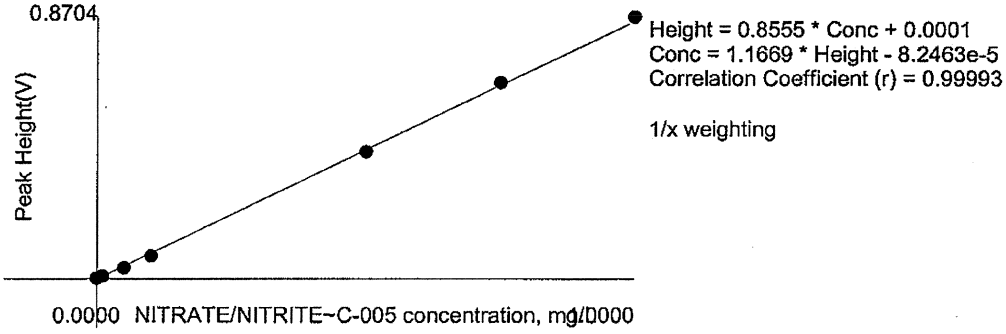
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

21105060S 538

Author: AEL

Date : 05/06/2011

Figure 1: NITRATE/NITRITE~C-005



211050608 539

Author: AEL

Date : 05/06/2011

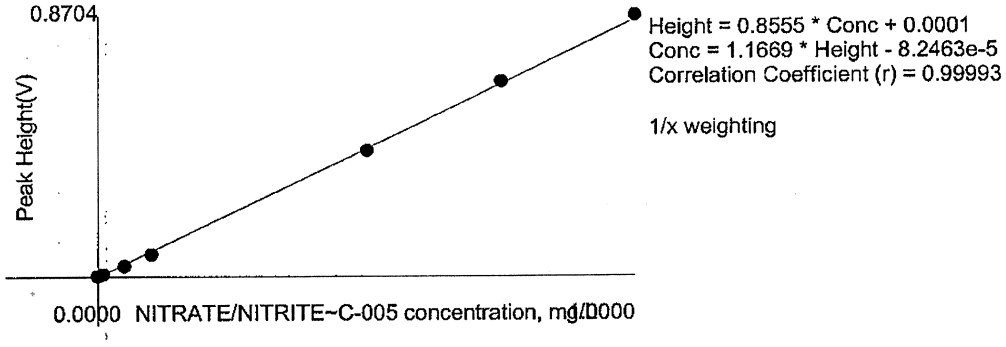
Original Run Filename: OM_05-06-2011_15-54-13.OMN created 05/06/2011 15:54:13
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_15-54-13.OMN last modified 05/06/2011 16:00:11
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF
~~21105060801~~	1	1.5066	05/06/2011@15:54:54	
21105060801	1	1.5680	05/06/2011@15:56:09	5.00
Calibration:		Table/Fig. 1		
1800	1	0.4956	05/06/2011@15:57:24	
Known Conc:		0.5000		
1900	1	-0.0008	05/06/2011@15:58:39	
Known Conc:		0.0000		

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21105060 540

Author: AEL

Date : 05/06/2011

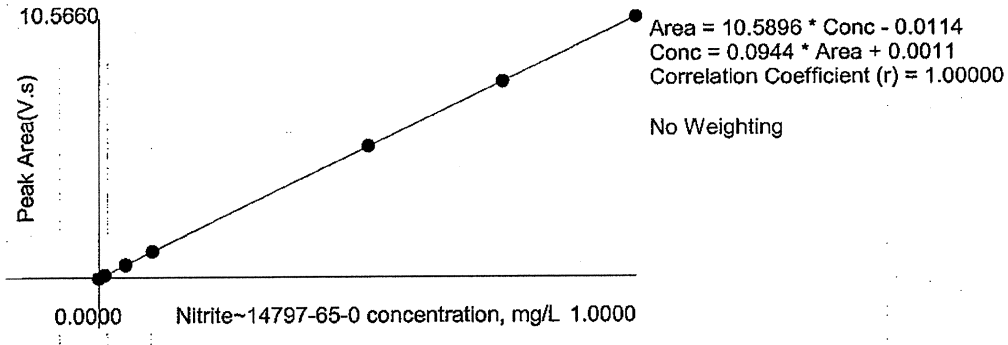
Original Run Filename: OM_05-06-2011_16-01-04.OMN created 05/06/2011 16:01:04
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-06-2011_16-01-04.OMN last modified 05/06/2011 16:15:19
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5059	05/06/2011@16:01:45		101
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0046	05/06/2011@16:03:01		
Known Conc:		0.0000			
944985 BIK	1	-0.0003	05/06/2011@16:04:16		
944986 LCS	1	0.5070	05/06/2011@16:05:31		101
21105042611	1	-0.0016	05/06/2011@16:06:47		
944987 MS	1	0.4906	05/06/2011@16:08:01		98
944988 MSD	1	0.4902	05/06/2011@16:09:16		98
21105060801	1	0.0039	05/06/2011@16:10:31		
21105060802	1	0.0044	05/06/2011@16:11:46		
1800	1	0.5118	05/06/2011@16:12:59		102
Known Conc:		0.5000			
1900	1	0.0002	05/06/2011@16:14:14		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105060B 541

LACHAT STANDARD IDs

Analyst: DJH
Date: 5/7/11
HBN #: 455918, 455919
Batch #: 9537, 9538

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	210000
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900907
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	103%
LCS NO3 X 100 / LCS NO2	$\frac{.5400}{.5224} \times 100$

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

Reviewed By: Bmc 5/9/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.		N+N	NO2	NO3
Method Blank 945319		-.0056	.0008	0
LCS 945320		.5400	.5032	.5392
21105060805		.3785	.0039	.3746
945321	MS	.8429	.4677	.8390
945322	MSD	.8418	.4678	.8379
21105060806		-.0067	-.0019	0
21105060807		.7231	.0039	.7192

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/08/2011

Original Run Filename: OM_05-07-2011_10-28-47.OMN created 05/07/2011 10:28:47
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-07-2011_10-28-47.OMN last modified 05/07/2011 10:46:15
Current Run Author's Signature: [AEL]
Description: Default New Run

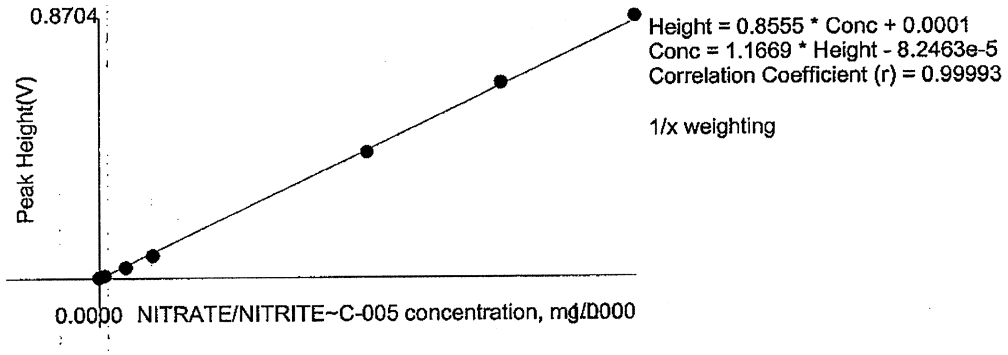
Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
ICV	1	0.5315	5.2657	05/07/2011@10:29:28		106%
Known Conc:		100.0000				
ICB	1	-0.0054	-0.0654	05/07/2011@10:30:44		
Known Conc:		100.0000				
Calibration:		Table/Fig. 1				
MB 945319	1	-0.0056	-0.0747	05/07/2011@10:31:58		
LCS N03 945320	1	0.5400	5.2664	05/07/2011@10:33:14		108
LCS NO2	1	0.5567	5.4757	05/07/2011@10:34:29		
M114MW002	1	0.3785	3.8681	05/07/2011@10:35:44		
M114MW002 MS	1	0.8429	8.4017	05/07/2011@10:36:59		93%
M114MW002 MSD	1	0.8418	8.4146	05/07/2011@10:38:14		93%
QC EB1	1	-0.0067	-0.0900	05/07/2011@10:39:29		
M114MW003	1	0.7231	7.3526	05/07/2011@10:40:43		
LCS NO2	1	0.5224	5.2088	05/07/2011@10:41:58		104%
1800	1	0.5311	5.3726	05/07/2011@10:43:13		
Known Conc:		100.0000				
1900	1	-0.0051	-0.0838	05/07/2011@10:44:29		
Known Conc:		100.0000				

AR
2110506080 5
945321
945322
2110506080 6
2110506080 7

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



2110506080 544

Author: AEL

Date : 05/08/2011

Original Run Filename: OM_05-07-2011_11-07-19.OMN created 05/07/2011 11:07:19
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-07-2011_11-07-19.OMN last modified 05/07/2011 11:25:15
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
1800	1	0.5239	5.5365	05/07/2011@11:08:01		105%
Known Conc:		0.5000				
Calibration:		Table/Fig. 1				
1900	1	0.0040	0.0309	05/07/2011@11:09:16		
Known Conc:		0.0000				
MB 945323	1	0.0008	-0.0026	05/07/2011@11:10:32		
LCS N03	1	0.0002	-0.0088	05/07/2011@11:11:47		
LCS NO2 945324	1	0.5032	5.3169	05/07/2011@11:13:02		101%
M114MW002	1	0.0039	0.0299	05/07/2011@11:14:17		
M114MW002 MS	1	0.4677	4.9409	05/07/2011@11:15:32		93%
M114MW002 MSD	1	0.4678	4.9423	05/07/2011@11:16:47		93%
QC EB1	1	-0.0019	-0.0315	05/07/2011@11:18:01		
M114MW003	1	0.0039	0.0296	05/07/2011@11:19:16		
~~LCS N03~~	1	0.5102	5.3912	05/07/2011@11:20:30		
1800	1	0.5199	5.4942	05/07/2011@11:21:46		104%
Known Conc:		100.0000				
1900	1	0.4376	4.6228	05/07/2011@11:23:02		
Known Conc:		100.0000				

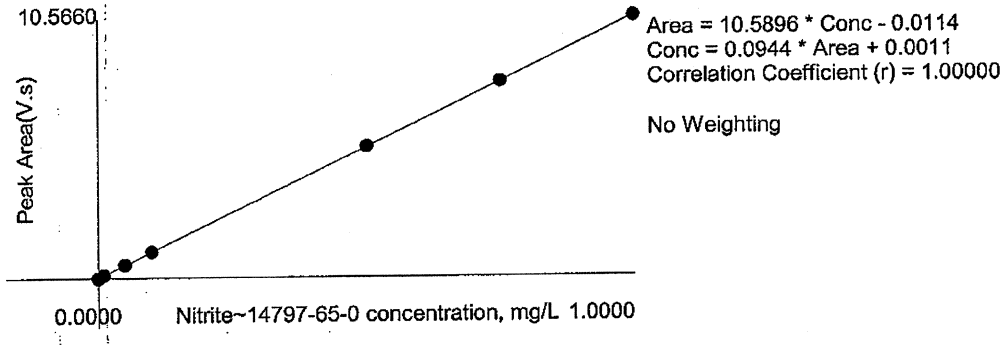
2110506080S 945325 945326 2110506080G 2110506080T RR * RL

* wrong location

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



2110506080S 545

Author: AEL

Date : 05/08/2011

Original Run Filename: OM_05-07-2011_11-25-55.OMN created 05/07/2011 11:25:55
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-07-2011_11-25-55.OMN last modified 05/07/2011 11:29:10
Current Run Author's Signature: [AEL]
Description: Default New Run

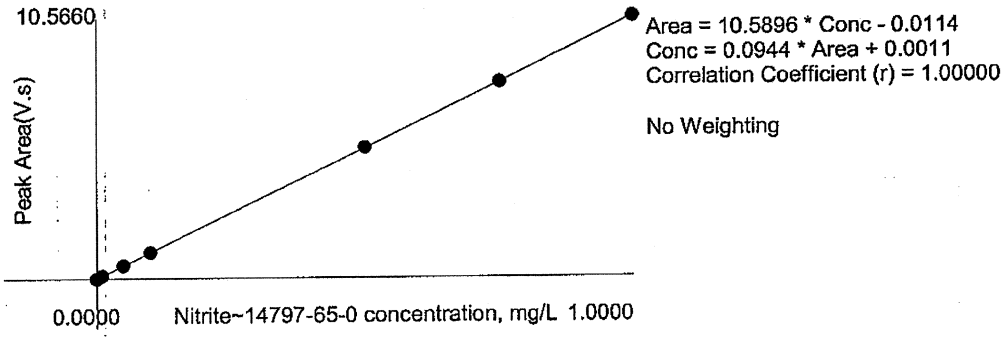
Sample	Rep.	Channel 1 Nitrite~14797-65-0 Conc. (mg/L)	Area (Vs)	Detection Time	MDF
1800	1	0.5108	5.3978	05/07/2011@11:26:36	
Known Conc:		100.0000			
1900	1	-0.0061	-0.0762	05/07/2011@11:27:52	
Known Conc:		100.0000			
Calibration:		Table/Fig. 1			

102%

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



211050668 546

LACHAT STANDARD IDs

Analyst: AOL

Date: 5-11-11

HBN #: 456087 / 456085

Batch #: 9549 / 9550

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900907
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	101

Reviewed By: Bmc 5/13/11

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0	0	0	
LCS	0.4730	0.5106	0.4730	95
21105060815	0.9008	0	0.9008	
ms	3.2146	0.4862	3.2146	93
msd	3.1949	0.4907	3.1949	92
21105060816	0.9154	0	0.9154	
21105060818	0.6173	0.0025	0.6148	
21105060819	0.1666	0.0032 2mpw	0.1634	

N+N minus NO2 equals NO3

Author: AEL

Date : 05/11/2011

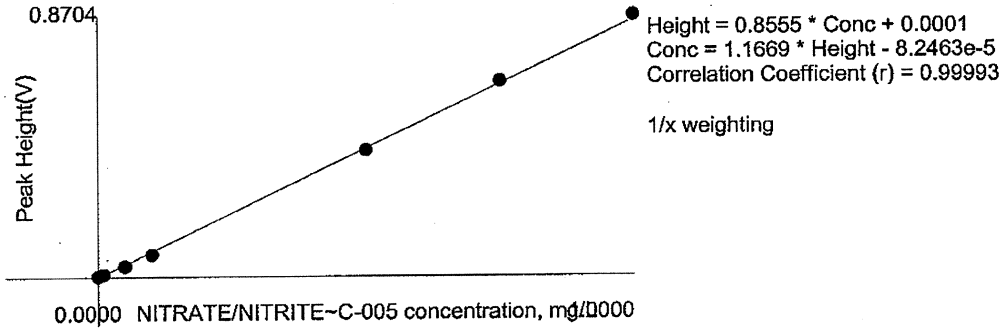
Original Run Filename: OM_05-11-2011_08-22-14.OMN created 05/11/2011 08:22:14
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-11-2011_08-22-14.OMN last modified 05/11/2011 08:44:44
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4842	05/11/2011@08:22:56		97
Known Conc:		0.5000			
1900	1	-0.0052	05/11/2011@08:24:13		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
945983 BLK	1	-0.0074	05/11/2011@08:25:32		
945984 LCS	1	0.4730	05/11/2011@08:26:47		95
LCS N02	1	0.4702	05/11/2011@08:28:02		94
~~21105060815~~	1	1.0283	05/11/2011@08:29:17		
~~945985~~ MS	1	1.5150	05/11/2011@08:30:34		RR
~~945986~~ MSD	1	1.5104	05/11/2011@08:31:50		
~~21105060816~~	1	1.0161	05/11/2011@08:33:07		RR
21105060815	1	0.9008	05/11/2011@08:34:22	5.00	
945985 MS	1	3.2146	05/11/2011@08:35:37	5.00	93
945986 MSD	1	3.1949	05/11/2011@08:36:53	5.00	92
1800	1	0.4734	05/11/2011@08:38:09		95
Known Conc:		0.5000			
1900	1	-0.0074	05/11/2011@08:39:24		
Known Conc:		0.0000			
21105060815.6	1	0.9154	05/11/2011@08:40:40	2.00	
1800 ABS-5.11.11	1	0.4701	05/11/2011@08:41:58		94
Known Conc:		0.5000			
1900	1	-0.0076	05/11/2011@08:43:11		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21105060816 545

Author: AEL

Date : 05/11/2011

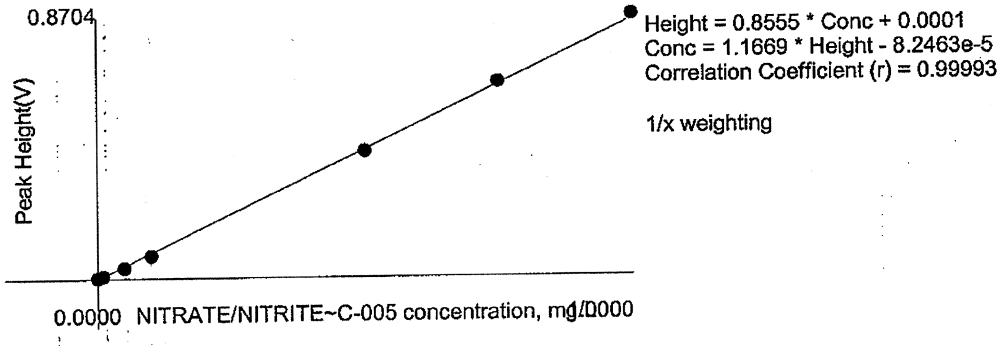
Original Run Filename: OM_05-11-2011_11-03-24.OMN created 05/11/2011 11:03:24
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-11-2011_11-03-24.OMN last modified 05/11/2011 11:11:53
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4708	05/11/2011@11:04:06		94
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0073	05/11/2011@11:05:21		
Known Conc:		0.0000			
21105060818	1	0.6173	05/11/2011@11:06:36		
21105060819	1	0.1666	05/11/2011@11:07:51		
1800	1	0.4573	05/11/2011@11:09:06		91
Known Conc:		0.5000			
1900	1	0.0004	05/11/2011@11:10:21		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

Figure 1: NITRATE/NITRITE~C-005



21105060818 550

Author: AEL

Date : 05/11/2011

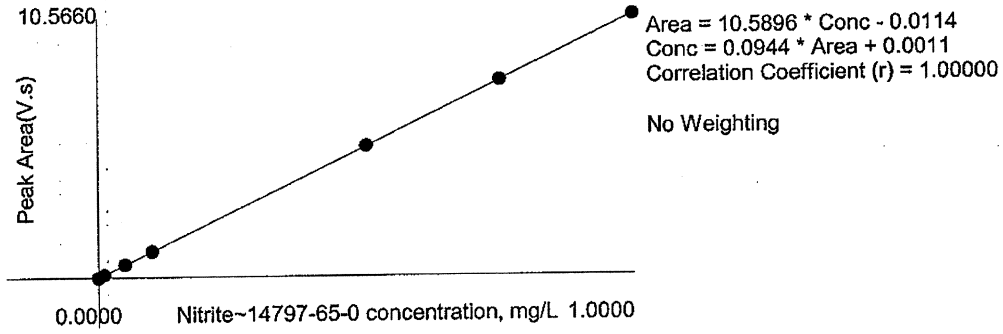
Original Run Filename: OM_05-11-2011_08-45-09.OMN created 05/11/2011 08:45:09
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-11-2011_08-45-09.OMN last modified 05/11/2011 08:58:12
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5143	05/11/2011@08:45:50		103
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0017	05/11/2011@08:47:06		
Known Conc:		0.0000			
945987 MA	1	-0.0001	05/11/2011@08:48:21		
945988 LCS	1	0.5106	05/11/2011@08:49:36		102
21105060815	1	-0.0012	05/11/2011@08:50:52		
945989 MS	1	0.4862	05/11/2011@08:52:07		97
945990 MSD	1	0.4907	05/11/2011@08:53:22		98
21105060816	1	-0.0026	05/11/2011@08:54:36		
1800	1	0.5147	05/11/2011@08:55:51		103
Known Conc:		0.5000			
1900	1	-0.0016	05/11/2011@08:57:08		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105060816 551

Author: AEL

Date : 05/11/2011

Original Run Filename: OM_05-11-2011_11-12-33.OMN created 05/11/2011 11:12:33
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-11-2011_11-12-33.OMN last modified 05/11/2011 11:20:36
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF
1800	1	0.5209	05/11/2011@11:13:14	
Known Conc:		0.5000		
Calibration:		Table/Fig. 1		
1900	1	-0.0001	05/11/2011@11:14:30	
Known Conc:		0.0000		
21105060818	1	0.0025	05/11/2011@11:15:45	
21105060819	1	0.0032	05/11/2011@11:17:00	
1800	1	0.5202	05/11/2011@11:18:14	
Known Conc:		0.5000		
1900	1	0.0004	05/11/2011@11:19:30	
Known Conc:		0.0000		

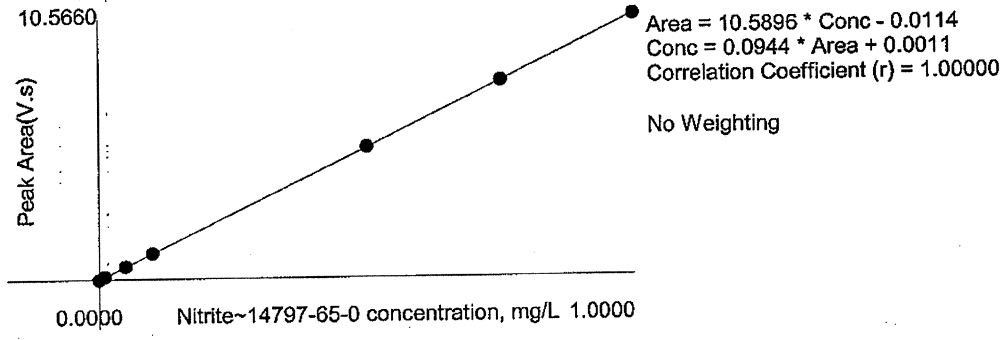
104

104

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

Figure 1: Nitrite~14797-65-0



21105060818 552

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-10-11

HBN #: 456027 / 456033 / 456051

Batch #: 9544 / 9545 / 9546

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	98
LCS NO3 X 100 / LCS NO2	

Reviewed By: bmc 5/10/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0	0.0037	0	
LCS	0.4877	0.5064	0.4877	98
21105101302	0.1046	0.0009	0.1037	
21105101303	0.4611	0.0026	0.4585	
21105101304	0.5516	0.0007	0.5509	
21105101305	0	0.0011	0	
21105101306	0.0460	0.0025	0.0435	
21105101307	0.0450	0.0017	0.0433	
21105060810	0.2364	0.0035	0.2329	
21105060811 ms	0.7319	0.4876	0.7284	99
21105060812 msd	0.7326	0.4790	0.7291	99
21105093501	19.6266	0.0195	19.6071	
21105093502	0.5940	0.0533	0.5407	

N+N minus NO2 equals NO3

Author: AEL

Date : 05/10/2011

Original Run Filename: OM_05-10-2011_13-22-47.OMN created 05/10/2011 13:22:47
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-10-2011_13-22-47.OMN last modified 05/10/2011 13:57:15
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4923	05/10/2011@13:23:28		98
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0005	05/10/2011@13:24:44		
Known Conc:		0.0000			
945750 Blk	1	-0.0017	05/10/2011@13:25:59		
945751 LCS	1	0.4877	05/10/2011@13:27:15		98
LCS N02	1	0.4983	05/10/2011@13:28:34		100
21105101302	1	0.1046	05/10/2011@13:29:50		
21105101303	1	0.4611	05/10/2011@13:31:06		
21105101304	1	0.5516	05/10/2011@13:32:21		
21105101305	1	-0.0034	05/10/2011@13:33:36		
21105101306	1	0.0460	05/10/2011@13:34:50		
21105101307	1	0.0450	05/10/2011@13:36:05		
21105060810	1	0.2364	05/10/2011@13:37:20		
1800	1	0.4967	05/10/2011@13:38:34		99
Known Conc:		0.5000			
1900	1	0.0047	05/10/2011@13:39:48		
Known Conc:		0.0000			
21105060811 MS	1	0.7319	05/10/2011@13:41:02		99
21105060812 MSD	1	0.7326	05/10/2011@13:42:18		99
21105093501	1	19.6266	05/10/2011@13:43:33	50.00	
21105093502	1	0.7565	05/10/2011@13:44:49	5.00	RR
945842 Blk	1	-0.0014	05/10/2011@13:46:04		
945843 LCS	1	0.5006	05/10/2011@13:47:20		100
21105091001	1	8.9637	05/10/2011@13:48:35	50.00	
945844 MS	1	32.8491	05/10/2011@13:49:50	50.00	96
945845 MSD	1	32.7511	05/10/2011@13:51:05	50.00	95
21105100701	1	10.6834	05/10/2011@13:52:20	20.00	
1800	1	0.5058	05/10/2011@13:53:35		101
Known Conc:		0.5000			
1900	1	0.0043	05/10/2011@13:54:53		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

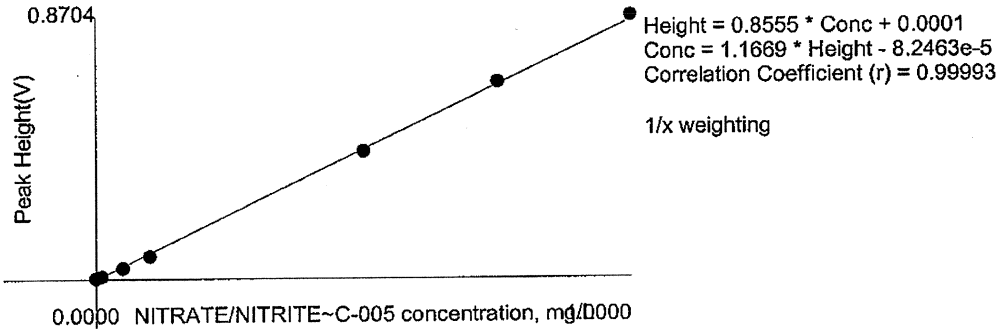
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

21105060 555

Author: AEL

Date : 05/10/2011

Figure 1: NITRATE/NITRITE~C-005



Height = 0.8555 * Conc + 0.0001
Conc = 1.1669 * Height - 8.2463e-5
Correlation Coefficient (r) = 0.99993

1/x weighting

21050668 556

Author: AEL

Date : 05/10/2011

Original Run Filename: OM_05-10-2011_14-19-17.OMN created 05/10/2011 14:19:17
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-10-2011_14-19-17.OMN last modified 05/10/2011 14:43:39
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5055	05/10/2011@14:19:58		101
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0018	05/10/2011@14:21:13		
Known Conc:		0.0000			
945765 Blk	1	0.0037	05/10/2011@14:22:29		
945766 LCJ	1	0.5064	05/10/2011@14:23:45		101
21105101302	1	0.0009	05/10/2011@14:25:05		
21105101303	1	0.0026	05/10/2011@14:26:20		
21105101304	1	0.0007	05/10/2011@14:27:34		
21105101305	1	0.0011	05/10/2011@14:28:48		
21105101306	1	0.0025	05/10/2011@14:30:03		
21105101307	1	0.0017	05/10/2011@14:31:18		
21105060810	1	0.0035	05/10/2011@14:32:33		
1800	1	0.4998	05/10/2011@14:33:47		100
Known Conc:		0.5000			
1900	1	0.0011	05/10/2011@14:35:01		
Known Conc:		0.0000			
21105060811 MS	1	0.4876	05/10/2011@14:36:15		97
21105060812 MSD	1	0.4790	05/10/2011@14:37:31		95
21105093501	1	0.0195	05/10/2011@14:38:47		
21105093502	1	0.0533	05/10/2011@14:40:02		
1800	1	0.4997	05/10/2011@14:41:17		100
Known Conc:		0.5000			
1900	1	-0.0021	05/10/2011@14:42:33		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

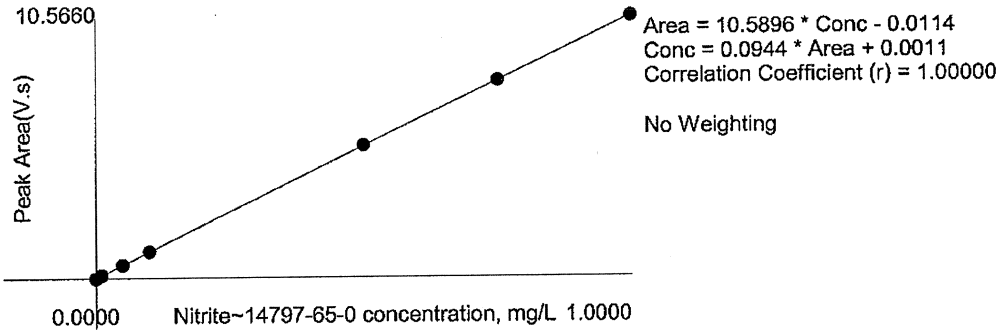
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

21105060B 557

Author: AEL

Date : 05/10/2011

Figure 1: Nitrite~14797-65-0



21105688 558

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-17-11

HBN #: 456516 / 456519 / 456520

Batch #: 9571 / 9572 / 9573

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2100001
CCV Expiration Date	8-18-11
NO2 CCV Lot #	2110091
CCV Expiration Date	7-30-11
NO3 ICV/LCS Lot #	2110125
ICV Expiration Date	7-30-12
NO2 ICV/CCV Lot #	2110132
ICV Expiration Date	6-30-11
Ammonium Chloride Buffer	803-62-7
Sulfanilamide Color Reagent	803-63-4
HCl Concentrated	20900703
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	20900407
N+N Calibration Date	3-5-11
N+N Calibration Expiration Date	8-18-11
NO2 Calibration Date	3-5-11
NO2 Calibration Expiration Date	7-30-11
Column Efficiency (90-110%)	101
LCS NO3 X 100 / LCS NO2	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

Reviewed By: BMC 5/19/11

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

Nitrate Calcuation

Sample No.	N+N	NO2	NO3	
Method Blank	0.0009	0.0026	0.0009	
LCS	0.5425	0.4770	0.5425	108
2110517090l	0.3247	0	0.3247	
MS	0.7749	0.4786	0.7749	
MSD	0.7759	0.4798	0.7759	
2110517090 2	0.0023	0.0005	0.0018	
2110517340l	0	0.0052	0	
2110517346 2	0	0.0048	0	
2110 5173403 MS	0.3953	0.4779	0.3905	78
2110 5173404 MSD	0.3954	0.4789	0.3906	78
2110 5173405	0.0529	0.0065	0.0464	
2110 5173406	0	0.0050	0	
2110 5173407	0	0.0084	0	
2110 5175401	0.0086	0.0491	0	

N+N minus NO2 equals NO3

Revision 0: 1/3/07

Author: AEL

Date : 05/17/2011

Original Run Filename: OM_05-17-2011_15-53-24.OMN created 05/17/2011 15:53:24
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-17-2011_15-53-24.OMN last modified 05/17/2011 16:20:37
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.5397	05/17/2011@15:54:05		108
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0005	05/17/2011@15:55:21		
Known Conc:		0.0000			
948012 BLK	1	0.0009	05/17/2011@15:56:36		
948013 LCI	1	0.5425	05/17/2011@15:57:51		108
LCS N02	1	0.5363	05/17/2011@15:59:07		107
21105170901	1	0.3247	05/17/2011@16:00:22		
948014 MS	1	0.7749	05/17/2011@16:01:37		90
948015 MSD	1	0.7759	05/17/2011@16:02:51		90
21105170902	1	0.0023	05/17/2011@16:04:07		
21105173401	1	-0.0089	05/17/2011@16:05:23		
21105173402	1	-0.0023	05/17/2011@16:06:37		
21105173403 MS	1	0.3953	05/17/2011@16:07:51		79
1800	1	0.5427	05/17/2011@16:09:06		108
Known Conc:		0.5000			
1900	1	-0.0004	05/17/2011@16:10:20		
Known Conc:		0.0000			
21105173404 MSD	1	0.3954	05/17/2011@16:11:34		79
21105173405	1	0.0529	05/17/2011@16:12:49		
21105173406	1	-0.0068	05/17/2011@16:14:05		
21105173407	1	-0.0078	05/17/2011@16:15:20		
21105175401	1	0.0086	05/17/2011@16:16:35		
1800	1	0.5390	05/17/2011@16:17:51		108
Known Conc:		0.5000			
1900	1	-0.0004	05/17/2011@16:19:05		
Known Conc:		0.0000			

Samples where MS & MSD fixed due to NIT.

Table 1: NITRATE/NITRITE~C-005

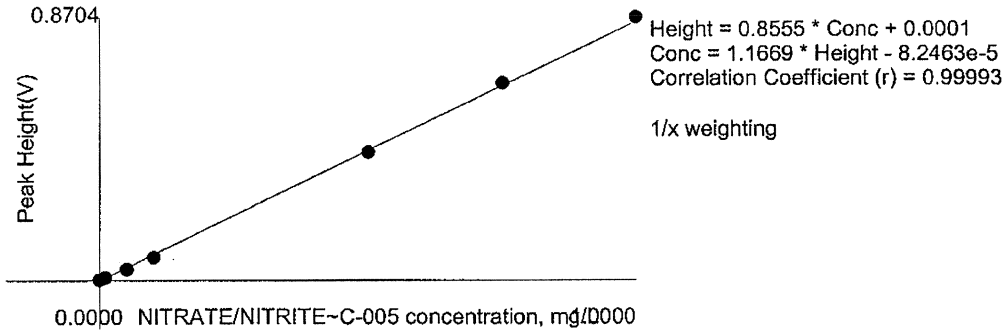
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	9.3852	0.8704	-1.7	03/05/2011	14:59:39
2	0.7500	1	7.0179	0.6508	-1.4	03/05/2011	15:00:54
3	0.5000	1	4.5529	0.4206	1.7	03/05/2011	15:02:09
4	0.1000	1	0.8301	0.0756	11.7	03/05/2011	15:03:24
5	0.0500	1	0.4018	0.0365	14.8	03/05/2011	15:04:40
6	0.0100	1	0.0963	0.0086	1.0	03/05/2011	15:05:55
7	0.0000	1	0.0282	0.0023		03/05/2011	15:07:10

21105060608 561

Author: AEL

Date : 05/17/2011

Figure 1: NITRATE/NITRITE~C-005



21105966 562

Author: AEL

Date : 05/17/2011

Original Run Filename: OM_05-17-2011_16-20-55.OMN created 05/17/2011 16:20:55
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-17-2011_16-20-55.OMN last modified 05/17/2011 16:46:28
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.4740	05/17/2011@16:21:37		95
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	0.0017	05/17/2011@16:22:52		
Known Conc:		0.0000			
948018 BTA	1	0.0026	05/17/2011@16:24:07		
948019 LFI	1	0.4770	05/17/2011@16:25:23		95
21105170901	1	-0.0035	05/17/2011@16:26:38		
948020 mf	1	0.4786	05/17/2011@16:27:53		96
948021 mfo	1	0.4798	05/17/2011@16:29:08		96
21105170902	1	0.0005	05/17/2011@16:30:23		
21105173401	1	0.0052	05/17/2011@16:31:38		
21105173402	1	0.0048	05/17/2011@16:32:52		
21105173403 mf	1	0.4779	05/17/2011@16:34:07		95
1800	1	0.4761	05/17/2011@16:35:21		95
Known Conc:		0.5000			
1900	1	0.0003	05/17/2011@16:36:36		
Known Conc:		0.0000			
21105173404 mfo	1	0.4789	05/17/2011@16:37:49		95
21105173405	1	0.0065	05/17/2011@16:39:05		
21105173406	1	0.0050	05/17/2011@16:40:21		
21105173407	1	0.0084	05/17/2011@16:41:36		
21105175401	1	0.0491	05/17/2011@16:42:51		
1800	1	0.4810	05/17/2011@16:44:07		96
Known Conc:		0.5000			
1900	1	-0.0003	05/17/2011@16:45:22		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

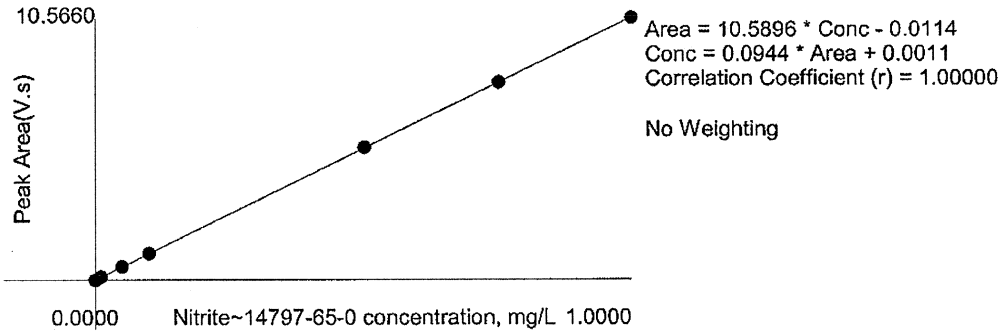
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.5660	1.0787	0.1	03/05/2011	16:05:01
2	0.7500	1	7.9320	0.8112	-0.0	03/05/2011	16:05:02
3	0.5000	1	5.3068	0.5450	-0.4	03/05/2011	16:05:02
4	0.1000	1	1.0427	0.1059	0.5	03/05/2011	16:05:02
5	0.0500	1	0.5174	0.0531	0.1	03/05/2011	16:05:02
6	0.0100	1	0.1001	0.0101	-6.0	03/05/2011	16:05:02
7	0.0000	1	-0.0241	-0.0004		03/05/2011	16:05:02

21105606 563

Author: AEL

Date : 05/17/2011

Figure 1: Nitrite~14797-65-0



21105668 564

LACHAT STANDARD IDs

Analyst: DJH
Date: 5/13/11
HBN #: 456300
Batch #: 9558

CHLORIDE SM4500 Cl-E /9251

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
0.5M Ferric Nitrate Lot #
Mercuric Thiocyanate Lot #
Calibration Date
Calibration Expiration Date

PHENOLICS 420.4/9066

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
Phenol Buffer Lot #
4-Aminoantipyrine Lot #
Calibration Date
Calibration Expiration Date

TOTAL PHOSPHORUS 365.1

CCV Lot #
CCV Expiration Date
ICV/LCS Lot #
ICV Expiration Date
Ascorbic Acid Lot #
0.11N H2SO4 Lot #
Molybdate Color Lot #
Calibration Date
Calibration Expiration Date

CYANIDE 335.4/9012A

CCV Lot # 2110092
CCV Expiration Date 7/11
ICV/LCS Lot #
ICV Expiration Date
Phosphate Buffer Lot # 803-59-6
Pyridine-Barbituric Acid Lot # 2110198
Chloramine T Lot # 803-64-6
0.25N NaOH Lot # 803-63-1
Calibration Date 3/7/11
Calibration Expiration Date 7/30/11

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #
CCV Expiration Date
NO2 CCV Lot #
CCV Expiration Date
NO3 ICV/LCS Lot #
ICV Expiration Date
NO2 ICV/CCV Lot #
ICV Expiration Date
Ammonium Chloride Buffer
Sulfanilamide Color Reagent
HCl Concentrated
NH4OH Concentrated
Sodium Thiosulfate 0.025N
N+N Calibration Date
N+N Calibration Expiration Date
NO2 Calibration Date
NO2 Calibration Expiration Date
Column Efficiency (90-110%)
LCS NO3 X 100
LCS NO2

Reviewed By: Bmc 5/19/11 Bmc 5/14/11

Author: AEL

Date : 05/13/2011

Original Run Filename: OM_05-13-2011_16-04-50.OMN created 05/13/2011 16:04:50
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_16-04-50.OMN last modified 05/13/2011 16:38:00
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide-57-12-5 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
1800	1	0.0524	18.1071	05/13/2011@16:05:41		105%
Known Conc:		0.0500				
Calibration:		Table/Fig. 1				
1900	1	-0.0021	-0.0138	05/13/2011@16:06:41		
Known Conc:		0.0000				
945393 MB	1	-0.0023	-0.0560	05/13/2011@16:07:40		
945394 LCS	1	0.0214	7.8211	05/13/2011@16:08:39		107
RR ~~945395 LCS Hi~~	1	0.1519	51.1758	05/13/2011@16:09:37		
21105042611	1	-0.0009	0.3976	05/13/2011@16:10:36		
21105060801	1	-0.0006	0.5068	05/13/2011@16:11:35		
RR ~~21105060802~~	1	9.7272e-5	0.7275	05/13/2011@16:12:33		
21105062501	1	0.0013	1.1192	05/13/2011@16:13:30		
21105060805	1	-0.0017	0.1458	05/13/2011@16:14:27		
21105060806	1	-0.0017	0.1247	05/13/2011@16:15:25		
21105060807	1	-0.0017	0.1161	05/13/2011@16:16:23		
1800	1	0.0529	18.2782	05/13/2011@16:17:19		106%
Known Conc:		0.0500				
1900	1	-0.0024	-0.1130	05/13/2011@16:18:16		
Known Conc:		0.0000				
~~21105093001~~	~~1~~	~~0.0023~~	~~1.4689~~	~~05/13/2011@16:19:13~~		RR
RR ~~21105093002 MS~~	~~1~~	~~0.0327~~	~~11.5475~~	~~05/13/2011@16:20:11~~		61% RR
RR ~~21105093003 MSD~~	~~1~~	~~-0.0019~~	~~0.0560~~	~~05/13/2011@16:21:10~~		0% RR
21105060810	1	-0.0018	0.0885	05/13/2011@16:22:09		
21105060811 MS	1	0.0473	16.4103	05/13/2011@16:23:08		95%
21105060812 MSD	1	0.0481	16.6849	05/13/2011@16:24:06		96%
21105060815	1	-0.0017	0.1306	05/13/2011@16:25:05		
21105060816	1	-0.0014	0.2243	05/13/2011@16:26:04		
21105060818	1	0.0013	1.1401	05/13/2011@16:27:01		
21105060819	1	-0.0015	0.2008	05/13/2011@16:27:59		
1800	1	0.0528	18.2306	05/13/2011@16:28:58		106%
Known Conc:		0.0500				
1900	1	-0.0020	0.0218	05/13/2011@16:29:56		
Known Conc:		0.0000				
21105042612	1	-0.0016	0.1534	05/13/2011@16:30:54		
21105042613	1	-0.0012	0.3099	05/13/2011@16:31:51		
~~945395 LCS Hi~~	~~1~~	~~0.1282~~	~~43.3060~~	~~05/13/2011@16:32:47~~		128% RR
~~21105093002 MS~~	~~1~~	~~0.0340~~	~~12.2089~~	~~05/13/2011@16:33:44~~		65% RR
~~21105093003 MSD~~	~~1~~	~~0.0342~~	~~12.0465~~	~~05/13/2011@16:34:43~~		64% RR
~~1800~~	~~1~~	~~0.0535~~	~~18.4597~~	~~05/13/2011@16:35:42~~		107%
Known Conc:		0.0500				
* RR ~~1900~~	~~1~~	~~0.0987~~	~~33.4980~~	~~05/13/2011@16:36:42~~		
Known Conc:		0.0000				

Table 1: Cyanide-57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	57.3068	2.7022	12.5	03/07/2011	09:49:44
2	0.1000	1	35.9447	1.9322	-8.4	03/07/2011	09:50:44
3	0.0500	1	20.1081	1.1398	-18.5	03/07/2011	09:51:44
4	0.0250	1	10.6890	0.6213	-20.4	03/07/2011	09:52:44
5	0.0100	1	4.5457	0.2629	-13.0	03/07/2011	09:53:42
6	0.0050	1	2.3668	0.1374	1.5	03/07/2011	09:54:41
7	0.0000	1	-0.0500	-0.0140		03/07/2011	09:55:40

* CCB ran out of sample

21105060 566

Author: AEL

Date : 05/13/2011

Original Run Filename: OM_05-13-2011_16-38-51.OMN created 05/13/2011 16:38:51
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_16-38-51.OMN last modified 05/13/2011 16:41:59
Current Run Author's Signature: [AEL]
Description: Default New Run

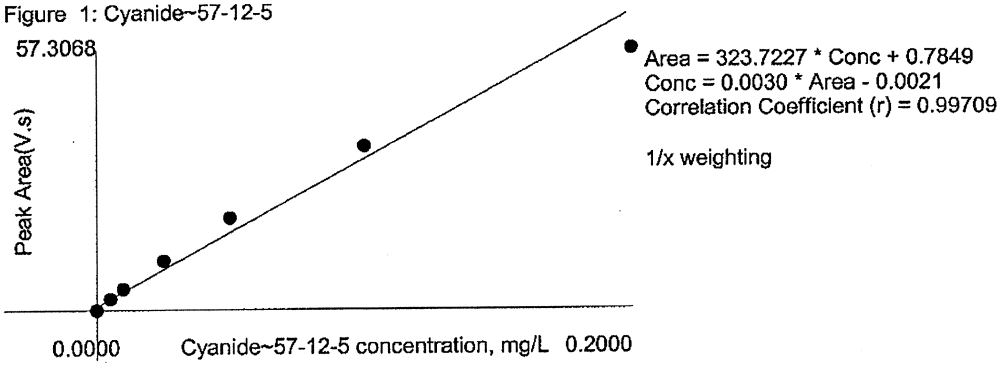
Sample	Rep.	Channel 1 Cyanide~57-12-5 Conc. (mg/L)	Area (Vs)	Detection Time	MDF
1800	1	0.0525	18.1579	05/13/2011@16:39:43	
Known Conc:		0.0500			
1900	1	-0.0022	-0.0376	05/13/2011@16:40:42	
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			

105%

Table 1: Cyanide~57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	57.3068	2.7022	12.5	03/07/2011	09:49:44
2	0.1000	1	35.9447	1.9322	-8.4	03/07/2011	09:50:44
3	0.0500	1	20.1081	1.1398	-18.5	03/07/2011	09:51:44
4	0.0250	1	10.6890	0.6213	-20.4	03/07/2011	09:52:44
5	0.0100	1	4.5457	0.2629	-13.0	03/07/2011	09:53:42
6	0.0050	1	2.3668	0.1374	1.5	03/07/2011	09:54:41
7	0.0000	1	-0.0500	-0.0140		03/07/2011	09:55:40

Figure 1: Cyanide~57-12-5



21105608 567

Author: AEL

Date : 05/13/2011

Original Run Filename: OM_05-13-2011_17-10-28.OMN created 05/13/2011 17:10:28
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-13-2011_17-10-28.OMN last modified 05/13/2011 17:18:30
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57-12-5 Conc. (mg/L)	Area (Vs)	Detection Time	MDF
1800	1	0.0517	17.8786	05/13/2011@17:11:19	
Known Conc:		0.0500			
Calibration:		Table/Fig. 1			
1900	1	-0.0021	-0.0045	05/13/2011@17:12:18	
Known Conc:		0.0000			
~~21105060802~~	~~1~~	~~0.0076~~	~~0.1024~~	~~05/13/2011@17:13:17~~	~~5.00~~
21105060802	1	-0.0001	0.6461	05/13/2011@17:14:16	
945395 LCSHi	1	0.1174	39.7170	05/13/2011@17:15:15	
1800	1	0.0526	18.1900	05/13/2011@17:16:14	
Known Conc:		0.0500			
1900	1	-0.0019	0.0750	05/13/2011@17:17:14	
Known Conc:		0.0000			

103

NR bmc 5/19/11

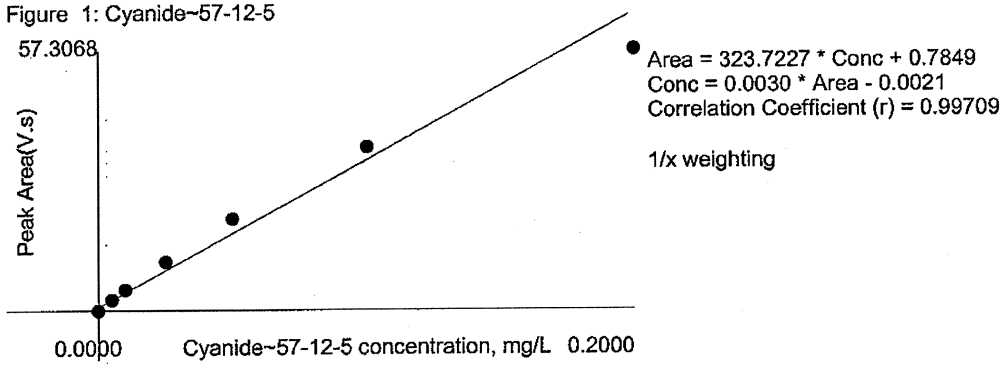
117%

105%

Table 1: Cyanide~57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	57.3068	2.7022	12.5	03/07/2011	09:49:44
2	0.1000	1	35.9447	1.9322	-8.4	03/07/2011	09:50:44
3	0.0500	1	20.1081	1.1398	-18.5	03/07/2011	09:51:44
4	0.0250	1	10.6890	0.6213	-20.4	03/07/2011	09:52:44
5	0.0100	1	4.5457	0.2629	-13.0	03/07/2011	09:53:42
6	0.0050	1	2.3668	0.1374	1.5	03/07/2011	09:54:41
7	0.0000	1	-0.0500	-0.0140		03/07/2011	09:55:40

Figure 1: Cyanide~57-12-5



21105060802 568

CYANIDE DISTILLATION
EPA 335.2 CLP-M/EPA 335.3/SW-846 9012A/SM 4500-CN

START	11:30 5-12-11	END	13:30	ANALYST	BG
MATRIX	WATER / SOLID			HBN:	455936

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	CHLORINE Yes No	SULFIDE Yes No	SAMPLE TYPE	COMMENTS	REAGENT LOT NO:
1	QC ACCOUNT	MB for HBN 455936 [INPR/9555]	945393	500	100		√	MB		1.25M NaOH:1
2	QC ACCOUNT	LCS for HBN 455936 [INPR/9555]	945394	500	100		√	LCS		8-49-5
3	QC ACCOUNT	LCSHI for HBN 455936 [INPR/955	945395	500	100		√	LCSHI		Ca(OCl2):1
4	4747	MWQ2	21105042611	500	100		√	SAMPLE		8-49-8
5	4747	MA02MW001D	21105060801	500	100		√	SAMPLE		0.1 NaS2O3:1
6	QC ACCOUNT	MA02MW001D(944806MS)	945396	500	100		√	MS	CA	8-49-3
7	4747	M114MW004	21105060802	500	100		√	SAMPLE		Bi(NO3):2,3
8	QC ACCOUNT	M114MW004(944807DUP)	945397	500	100		√	DUP	CA	NM
9	0463	EFF-5-6-11	21105062501	500	100		√	SAMPLE		Ascorbic Acid:2,3
10	4747	M114MW002	21105060805	500	100		√	SAMPLE		NM
11	4747	EB1	21105060806	500	100		√	EQBK		Sulfamic Acid:2,3
12	4747	M114MW003	21105060807	500	100		√	SAMPLE		2100449
13	4511	301-128	21105093004	500	100		√	SAMPLE		1:1 H2SO4:2
14	4511	301-128 MS	21105093002	500	100		√	MS		36-41
15	4511	301-128 MSD	21105093003	500	100		√	MSD		2.5M MgCl:2
16	4747	MA01MW001	21105060810	500	100		√	SAMPLE		8-48-14
17	4747	MA01MW001-MS	21105060811	500	100		√	MS		Zn(C2H3O2):3
18	4747	MA01MW001-MSD	21105060812	500	100		√	MSD		NM
19	4747	M114MW001	21105060815	500	100		√	SAMPLE		0.1% Methyl Red:3
20	4747	M114MW001-DUP	21105060816	500	100		√	FLDDUP		NM
21	4747	MAOMW004	21105060818	500	100		√	SAMPLE		Acetate Buffer:3
22	4747	MAOMW003	21105060819	500	100		√	SAMPLE		NM
23			MB505WP	500	100		√			5% NaOH (CLP):4
24			MB505W43	500	100		√			NM
25										1.0N NaOH:1,2,3
26										8-49-4

Type of cyanide prep: CNC-Total=2, CNAC-Amenable=1, CNFR-Free=3, CNC-CLP=4

COMMENTS:

BALANCE ID: _____ TEMP: High

LCS/MS SPIKE ID	8-50-17	CONC: 1000ppm				Analyst Review	DATE
LCS LOW VOL	100mL	LCS HIGH VOL 50mL		LCS CLP VOL NM		BG	5-12-11
MS WATER VOL	250mL	MS SOLID VOL NM					
						Secondary Review	DATE
SPIKE WITNESS	NM					DWB	5-12-11

LACHAT STANDARD IDs

Analyst: AEL

Date: 5-23-11

HBN #: 456901 / 456904 / 456905

Batch #: 9585 / 9586 / 9587

2/57155
9600

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	2110092
CCV Expiration Date	7-30-11
ICV/LCS Lot #	NA
ICV Expiration Date	NA
Phosphate Buffer Lot #	803-65-6
Pyridine-Barbituric Acid Lot #	2110257
Chloramine T Lot #	803-65-7
0.25N NaOH Lot #	803-65-8
Calibration Date	3-7-11
Calibration Expiration Date	7-30-11

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	
CCV Expiration Date	
NO2 CCV Lot #	
CCV Expiration Date	
NO3 ICV/LCS Lot #	
ICV Expiration Date	
NO2 ICV/CCV Lot #	
ICV Expiration Date	
Ammonium Chloride Buffer	
Sulfanilamide Color Reagent	
HCl Concentrated	
NH4OH Concentrated	
Sodium Thiosulfate 0.025N	
N+N Calibration Date	
N+N Calibration Expiration Date	
NO2 Calibration Date	
NO2 Calibration Expiration Date	
Column Efficiency (90-110%)	
LCS NO3 X 100 / LCS NO2	

Reviewed By: BMC 5/25/11
5/26/11

Author: AEL

Date : 05/23/2011

Original Run Filename: OM_05-23-2011_10-29-00.OMN created 05/23/2011 10:29:00
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-23-2011_10-29-00.OMN last modified 05/23/2011 11:07:19
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57 -12-5 (mg/L)	Detection Time	MDF	
1800	1	0.0538	05/23/2011@10:29:52		108
Known Conc:		0.0500			
Calibration:		Table/Fig. 1			
1900	1	-0.0022	05/23/2011@10:30:52		
Known Conc:		0.0000			
948585 BLK	1	-0.0021	05/23/2011@10:31:51		
948586 LCS Low	1	0.0172	05/23/2011@10:32:50		86
948587 LCS High	1	0.0854	05/23/2011@10:33:49		85
21105183901	1	0.0035	05/23/2011@10:34:48		
948588 MS	1	0.0808	05/23/2011@10:35:47		RR M.I
21105183902	1	0.0558	05/23/2011@10:36:45		RR M.I.
948589 MSD	1	0.0597	05/23/2011@10:37:43		
21105183903	1	0.0502	05/23/2011@10:38:41		RR M.I
21105183904	1	0.0191	05/23/2011@10:39:39		RR M.I.
21105183905	1	0.0019	05/23/2011@10:40:37		
1800	1	0.0519	05/23/2011@10:41:34		104
Known Conc:		0.0500			
1900	1	-0.0041	05/23/2011@10:42:31		
Known Conc:		0.0000			
21105183906	1	-0.0024	05/23/2011@10:43:28		
21105184401	1	0.0146	05/23/2011@10:44:26		RR M.I.
21105184402	1	-0.0008	05/23/2011@10:45:26		
21105192701	1	0.0098	05/23/2011@10:46:25		RR M.I.
21105193701	1	0.0031	05/23/2011@10:47:24		
21105193702	1	0.0183	05/23/2011@10:48:23		RR M.I.
21105193703	1	-0.0015	05/23/2011@10:49:22		
947658 BLK	1	-0.0022	05/23/2011@10:50:22		
947659 LCS Low	1	0.0176	05/23/2011@10:51:20		88
947660 LCS High	1	0.0872	05/23/2011@10:52:18		87
1800	1	0.0526	05/23/2011@10:53:16		105
Known Conc:		0.0500			
1900	1	-0.0040	05/23/2011@10:54:14		
Known Conc:		0.0000			
21105042617 MS	1	0.0396	05/23/2011@10:55:12		79
21105042618 MSD	1	0.0398	05/23/2011@10:56:10		80
21105042614	1	-0.0007	05/23/2011@10:57:07		
21105042615	1	-0.0009	05/23/2011@10:58:03		
21105042616	1	-0.0018	05/23/2011@10:59:03		
947661 DUP	1	-0.0018	05/23/2011@11:00:03		
21105170901	1	-0.0015	05/23/2011@11:01:02		
21105170902	1	-0.0014	05/23/2011@11:02:01		
21105182601	1	-0.0006	05/23/2011@11:03:00		
21105182602	1	-0.0006	05/23/2011@11:03:59		
~~1800~~	~~1~~	~~0.0558~~	~~05/23/2011@11:04:58~~		AR
Known Conc:		0.0500			
~~1900~~	~~1~~	~~0.0029~~	~~05/23/2011@11:05:56~~		
Known Conc:		0.0000			

21105696 571

Author: AEL

Date : 05/23/2011

Original Run Filename: OM_05-23-2011_11-08-24.OMN created 05/23/2011 11:08:24
Original Run Author's Signature: [AEL]
Current Run Filename: OM_05-23-2011_11-08-24.OMN last modified 05/23/2011 11:39:45
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Cyanide~57 -12-5 (mg/L)	Detection Time	MDF	
1800	1	0.0531	05/23/2011@11:09:15		106
Known Conc:		0.0500			
1900	1	-0.0086	05/23/2011@11:10:14		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
21105182603	1	-0.0015	05/23/2011@11:11:12		
21105042620	1	-0.0017	05/23/2011@11:12:11		
21105042621	1	-0.0014	05/23/2011@11:13:08		
21105190401	1	-0.0013	05/23/2011@11:14:07		
21105042622	1	-0.0019	05/23/2011@11:15:04		
21105190601	1	-0.0020	05/23/2011@11:16:01		
21105190602	1	-0.0023	05/23/2011@11:16:59		
21105190603	1	-0.0022	05/23/2011@11:17:57		
21105190604	1	-0.0018	05/23/2011@11:18:58		
21105190605	1	-0.0019	05/23/2011@11:19:57		
1800	1	0.0518	05/23/2011@11:20:57		104
Known Conc:		0.0500			
1900	1	-0.0021	05/23/2011@11:21:56		
Known Conc:		0.0000			
21105190606	1	-0.0017	05/23/2011@11:22:55		
21105190101	1	-0.0008	05/23/2011@11:23:54		
21105190201	1	-0.0021	05/23/2011@11:24:52		
21105183901	1	-0.0092	05/23/2011@11:25:51	5.00	
~~948588 MS~~	1	0.0331	05/23/2011@11:26:48	5.00	RR wrong sample
21105183902	1	-0.0147	05/23/2011@11:27:47	5.00	
948589 Dup	1	-0.0098	05/23/2011@11:28:45	5.00	
21105183903	1	-0.0023	05/23/2011@11:29:42	2.00	
21105183904	1	-0.0022	05/23/2011@11:30:39	2.00	
21105184401	1	-0.0027	05/23/2011@11:31:37	2.00	
1800	1	0.0523	05/23/2011@11:32:36		105
Known Conc:		0.0500			
1900	1	-0.0019	05/23/2011@11:33:36		
Known Conc:		0.0000			
21105192701	1	-0.0033	05/23/2011@11:34:35	2.00	
21105193702	1	-0.0020	05/23/2011@11:35:35	2.00	107
948588 MS	1	0.0537	05/23/2011@11:36:34	5.00	
1800	1	0.0523	05/23/2011@11:37:33		105
Known Conc:		0.0500			
1900	1	-0.0020	05/23/2011@11:38:33		
Known Conc:		0.0000			

Table 1: Cyanide~57-12-5

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	0.2000	1	56.9613	2.6955	12.6	03/07/2011	10:00:05
2	0.1000	1	35.7597	1.9287	-8.4	03/07/2011	10:00:05
3	0.0500	1	20.0243	1.1382	-18.6	03/07/2011	10:00:05
4	0.0250	1	10.6455	0.6205	-20.3	03/07/2011	10:00:05
5	0.0100	1	4.5520	0.2631	-13.1	03/07/2011	10:00:05
6	0.0050	1	2.3522	0.1371	2.6	03/07/2011	10:00:05
7	0.0000	1	0.0000	-0.0140		03/07/2011	10:00:05

21105060 572

CYANIDE DISTILLATION
EPA 335.2 CLP-M/EPA 335.3/SW-846 9012A/SM 4500-CN

START	5-19-11 11:30	END	18:00	ANALYST	DT
MATRIX	WATER / SOLID			HBN:	456439

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (ml) g	FINAL VOLUME (mL)	CHLORINE Yes	CHLORINE No	SULFIDE Yes	SULFIDE No	SAMPLE TYPE	COMMENTS	REAGENT LOT NO:
1	QC ACCOUNT	MB for HBN 456439 [INPR/9585]	947658	500	100		X		X	MB		1.25M NaOH:1 NA
2	QC ACCOUNT	LCS for HBN 456439 [INPR/9585]	947659	500	100		X		X	LCS		
3	QC ACCOUNT	LCSHI for HBN 456439 [INPR/958	947660	500	100		X		X	LCSHI		Ca(OCl2):1 N/A
4	4747	MWQ14 MS	21105042617	500	100		X		X	MS		
5	4747	MWQ14 MSD	21105042618	500	100		X		X	MSD		0.1 Na2S2O3:1 NA
6	4747	MWQ 19	21105042614	500	100		X		X	SAMPLE		
7	4747	MWQ 18	21105042615	500	100		X		X	SAMPLE		Bi(NO3)2,3 NA
8	4747	MWQ14	21105042616	500	100		X		X	SAMPLE		
9	QC ACCOUNT	MWQ14(947214DUP)	947661	500	100		X		X	DUP		Ascorbic Acid:2,3 NA
10	4747	MAO1MW002	21105170901	500	100		X		X	SAMPLE		
11	4747	MWQ23	21105170902	500	100		X		X	SAMPLE		Sulfamic Acid:2,3 200419
12	0176	U26SS13	21105182601	500/100	100		X		X	SAMPLE	AC	
13	0176	U26STBT	21105182602	500/100	100		X		X	SAMPLE		1:1 H2SO4:2 30-41
14	0176	U26STFD	21105182603	500/100	100		X		X	FLDDUP		
15	4747	MWQ-20	21105042620	500	100		X		X	SAMPLE		2.5M MgCl:2 8-18-11
16	4747	MWQ-20 DUP	21105042621	500	100		X		X	FLDDUP		
17	4747	MWL6	21105190401	500	100		X		X	SAMPLE		Zn(C2H3O2):3 NA
18	4747	EB2	21105042622	500	100		X		X	EQBK		
19												0.1% Methyl Red:3 NA
20												
21												Acetate Buffer:3 NA
22												
23												5% NaOH (CLP):4 NA
24												
25												1.0N NaOH:2,3 8-19-11
26												

Type of cyanide prep: CNC-Total=2, CNAC-Amenable=1, CNFR-Free=3, CNC-CLP=4

COMMENTS:

BALANCE ID: N/A TEMP: High

LCS/MS SPIKE ID	850-17	CONC:	100PPM			Analyst Review	DATE
LCS LOW VOL	100UL	LCS HIGH VOL	500UL	LCS CLP VOL	N/A	DT	5-19-11
MS WATER VOL	250UL	MS SOLID VOL	N/A				
						Secondary Review	DATE
SPIKE WITNESS	N/A					DMM	5-19-11

ANALYST: AEL
DATE: 5-12-11
HBN# 456165 / 3213

IC STANDARDS IDS

IC **300.0/9056/5050**

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-9-3
Eluent Expiration Date 9-30-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# N/A
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: bmc 5/13/11

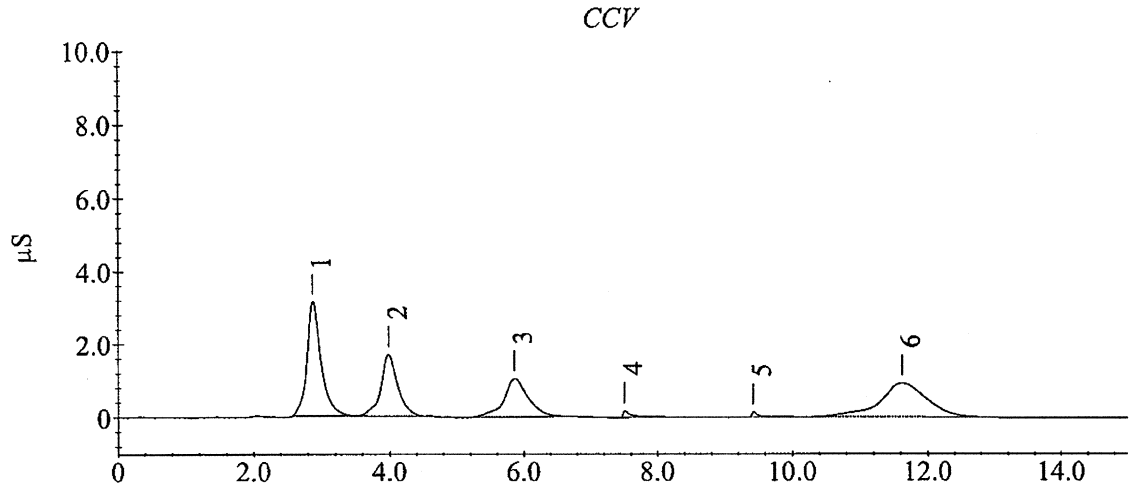
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 10:34:32
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.33	444280	31068
2	CHLORIDE,16887-00-6	3.98	2.3594	292491	16785
3	BROMIDE,24959-67-9	5.85	5.03101	264094	10375
4	Unknown 1	7.50	0.00	13390	1699
5	Unknown 2	9.42	0.00	7637	1303
6	SULFATE,14808-79-8	11.62	4.9498	438300	9122



21105668 575

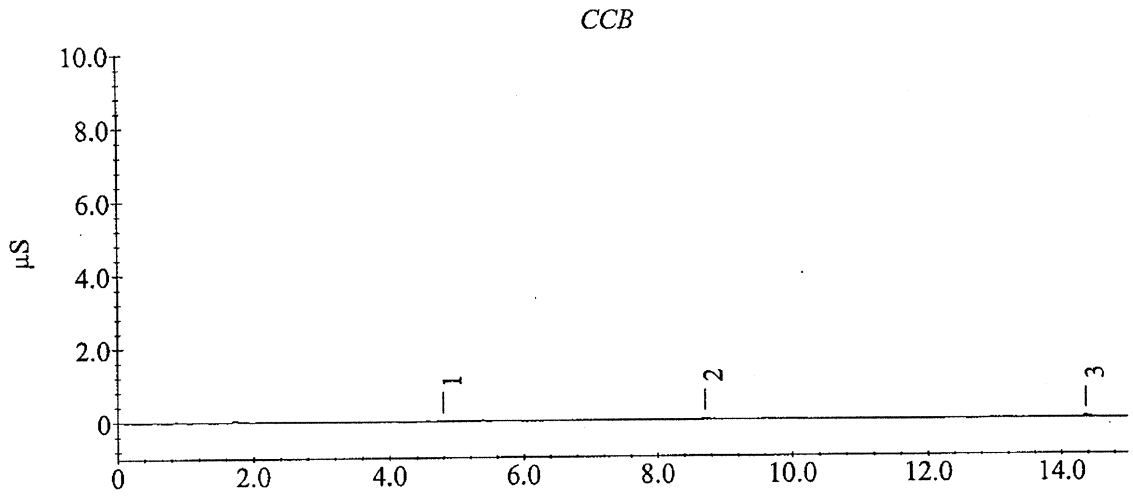
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_003.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 11:09:47
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 3

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	NITRITE,14797-65-0	4.80	0.06	890	89
2	Unknown 1	8.70	0.00	2293	309
3	Unknown 2	14.37	0.00	3082	500



21195668 576

Sample Analysis Report

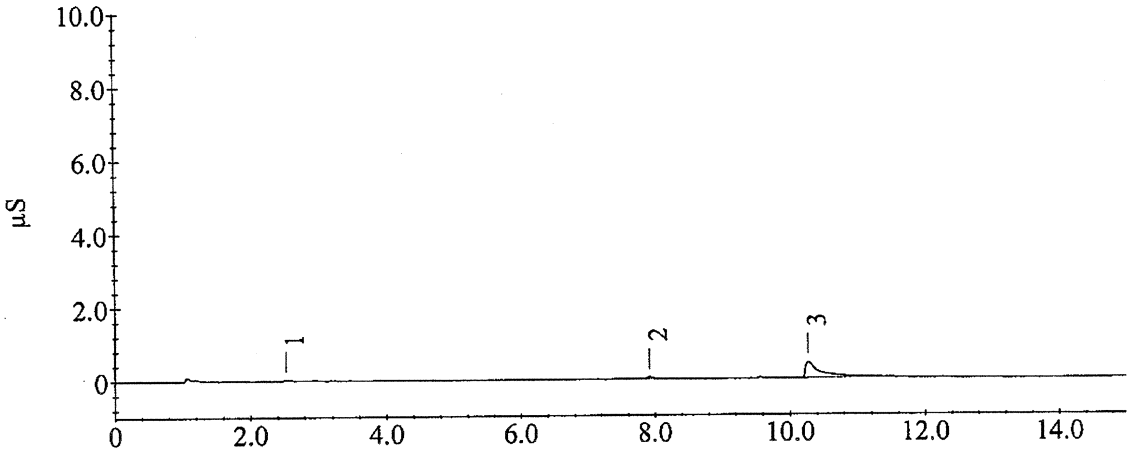
Sample Name : 946299 B14
Data File Name : d:\peaknet\data\2011\052011\0512_004.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 11:27:21
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 4

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	Unknown 1	2.52	0.00	1889	313
2	Unknown 2	7.92	0.00	3409	532
3	Unknown 3	10.27	0.00	68865	4378

B14
946299



21105606 577

Sample Analysis Report

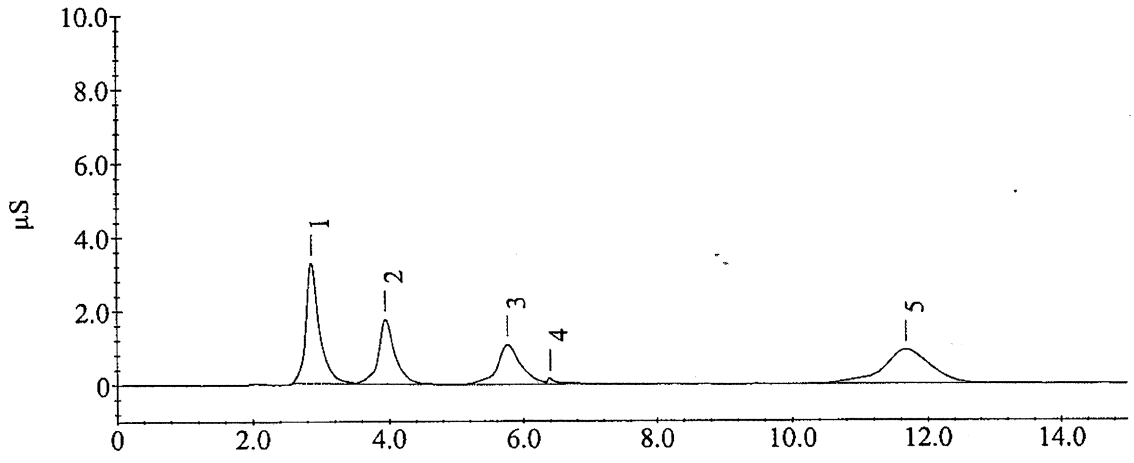
Sample Name : 946300 L//
Data File Name : d:\peaknet\data\2011\052011\0512_005.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 11:44:57
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 5

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.34	446878	32544
2	CHLORIDE,16887-00-6	3.95	2.43 97	302515	17458
3	BROMIDE,24959-67-9	5.77	4.97 99	260463	10661
4	NITRATE,14797-55-8	6.40	0.11	15897	1515
5	SULFATE,14808-79-8	11.68	5.05 101	448423	9166

L//
946300



211050668 578

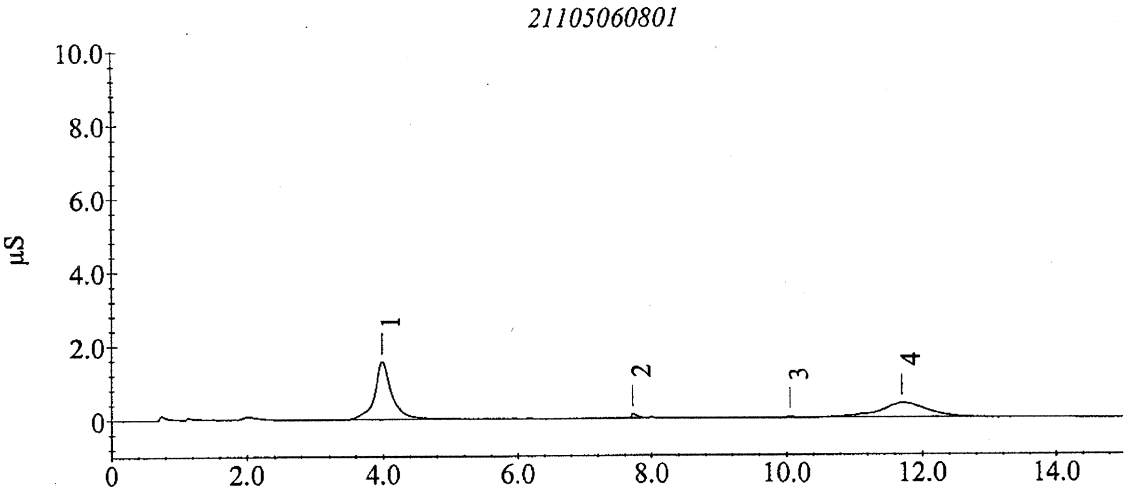
Sample Analysis Report

Sample Name : 21105060801
Data File Name : d:\peaknet\data\2011\052011\0512_006.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 12:02:32
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 6

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.98	2191.61✓	272575	15397
2	Unknown 1	7.72	0.00	6642	1169
3	Unknown 2	10.05	0.00	2384	333
4	SULFATE,14808-79-8	11.70	2128.04✓	185290	3922



21105060801 579

Sample Analysis Report

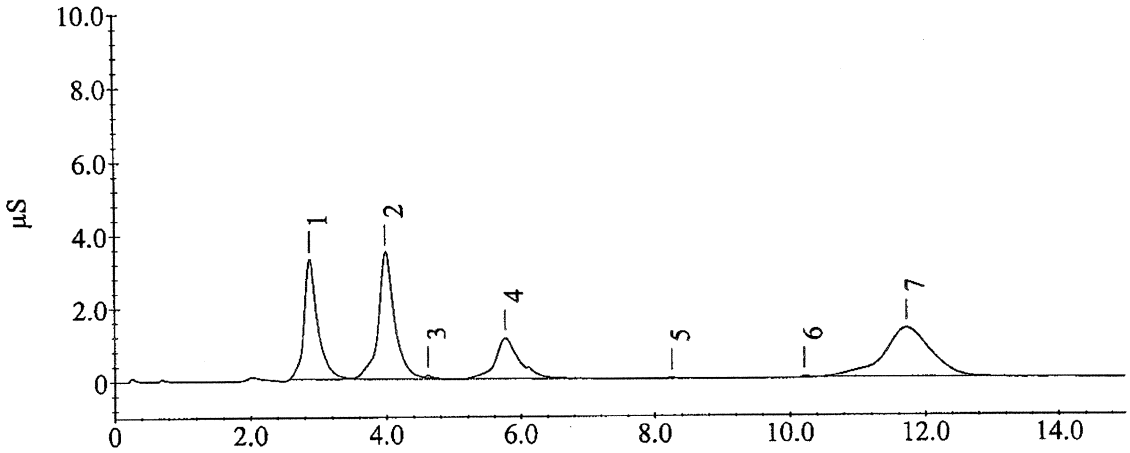
Sample Name : 946301 MS
Data File Name : d:\peaknet\data\2011\052011\0512_007.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 12:20:07
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 7

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2387.91	456061	32548
2	CHLORIDE,16887-00-6	3.98	4679.18 100	586795	34415
3	NITRITE,14797-65-0	4.62	70.66	5362	774
4	BROMIDE,24959-67-9	5.77	5265.45	276325	10979
5	Unknown 1	8.25	0.00	1631	221
6	Unknown 2	10.22	0.00	2618	374
7	SULFATE,14808-79-8	11.72	7218.24 102	643355	13248

MS
946301



211950698 580

Sample Analysis Report

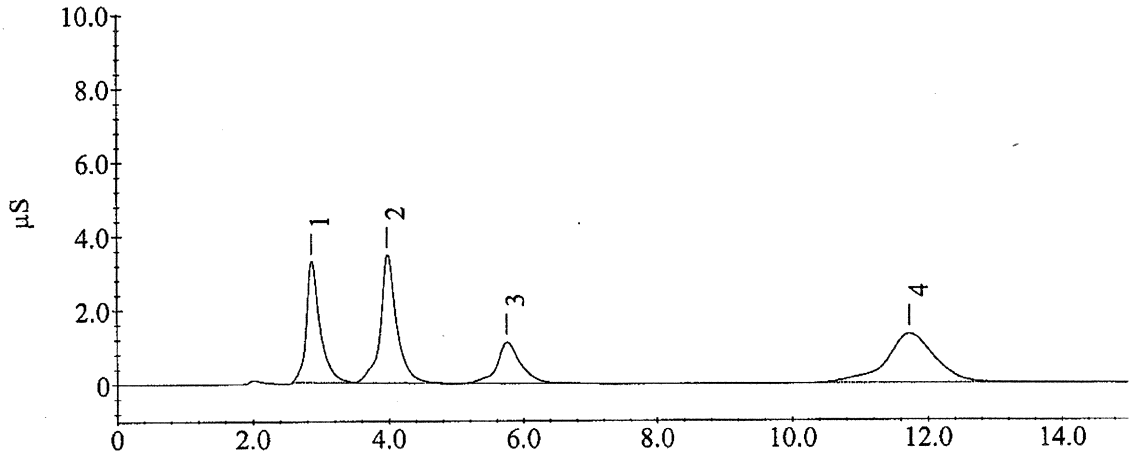
Sample Name : 946302 mid
Data File Name : d:\peaknet\data\2011\052011\0512_008.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 12:37:44
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 8

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2383.43	455183	32445
2	CHLORIDE,16887-00-6	3.98	4637.6198	581544	34171
3	BROMIDE,24959-67-9	5.75	5173.86	271466	11022
4	SULFATE,14808-79-8	11.73	7276.76103	648621	13195

mid
946302



211056606 581

Sample Analysis Report

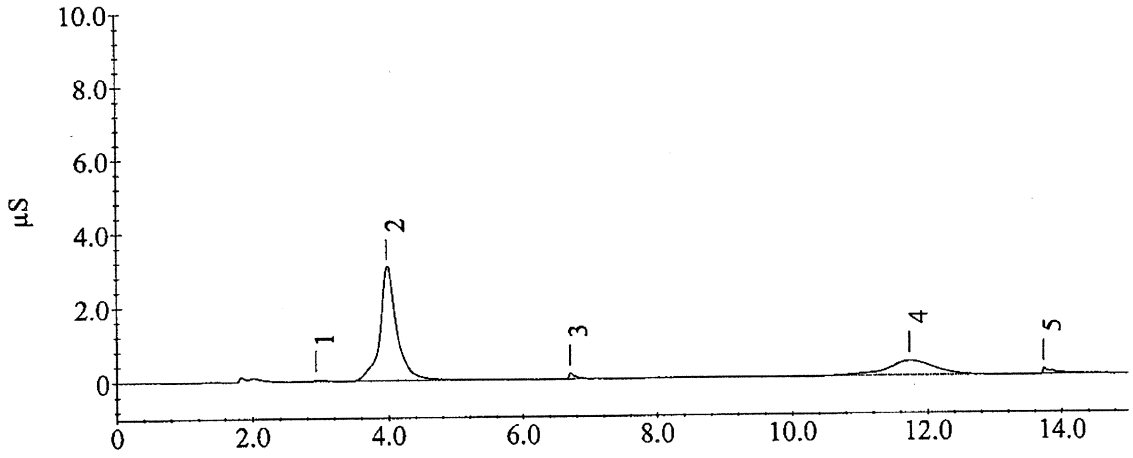
Sample Name : 21105060802
Data File Name : d:\peaknet\data\2011\052011\0512_009.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 12:55:30
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 9

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.93	83.07	4163	392
2	CHLORIDE,16887-00-6	3.98	4177.58 ✓	523435	30215
3	NITRATE,14797-55-8	6.70	89.51	9256	1438
4	SULFATE,14808-79-8	11.73	2110.13 ✓	183678	3887
5	Unknown 1	13.73	0.00	17998	1501

21105060802



21105060802 582

Sample Analysis Report

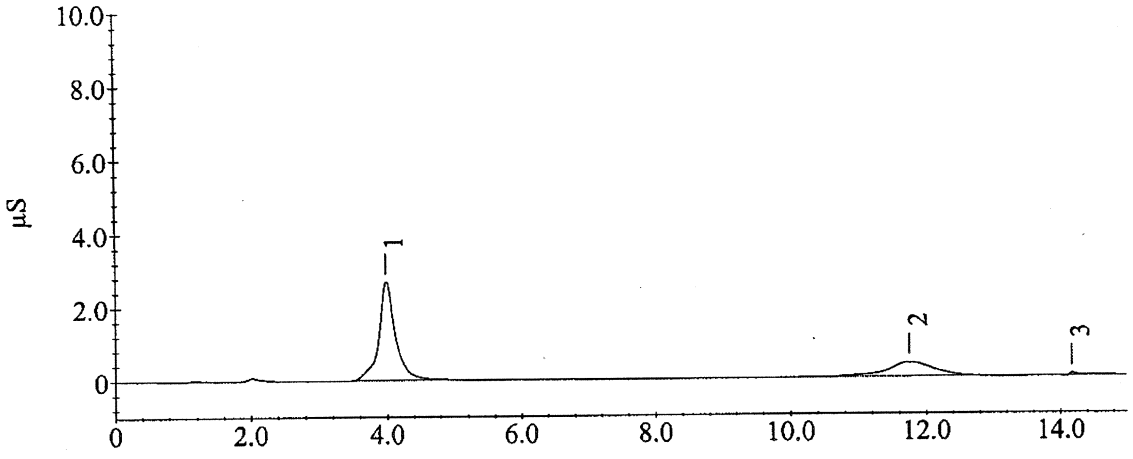
Sample Name : 21105060805
Data File Name : d:\peaknet\data\2011\052011\0512_010.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 13:13:06
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 10

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.98	3661.95 ✓	458302	26676
2	SULFATE,14808-79-8	11.75	2127.42 ✓	185234	3817
3	Unknown 1	14.17	0.00	3685	620

21105060805



21105060805 583

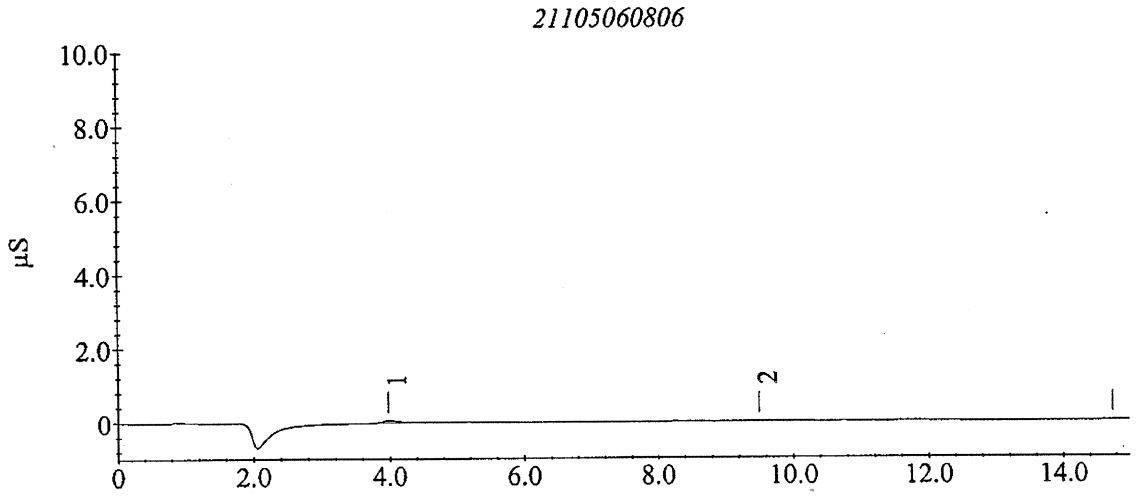
Sample Analysis Report

Sample Name : 21105060806
Data File Name : d:\peaknet\data\2011\052011\0512_011.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 13:30:40
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 11

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.98	0.11 ✓	9769	591
2	Unknown 1	9.50	0.00	2217	134
3	Unknown 2	14.75	0.00	1073	62



211050608 584

Sample Analysis Report

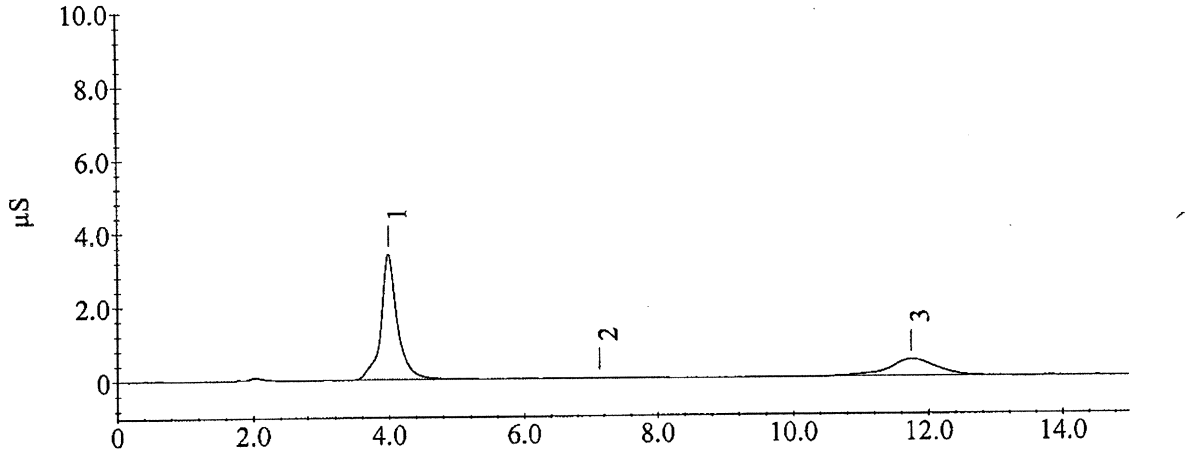
Sample Name : 21105060807
Data File Name : d:\peaknet\data\2011\052011\0512_012.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 13:48:16
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 12

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.00	4545.55 ✓	569915	33882
2	NITRATE,14797-55-8	7.13	70.77	3192	235
3	SULFATE,14808-79-8	11.75	2460.53 ✓	215211	4475

21105060807



Sample Analysis Report

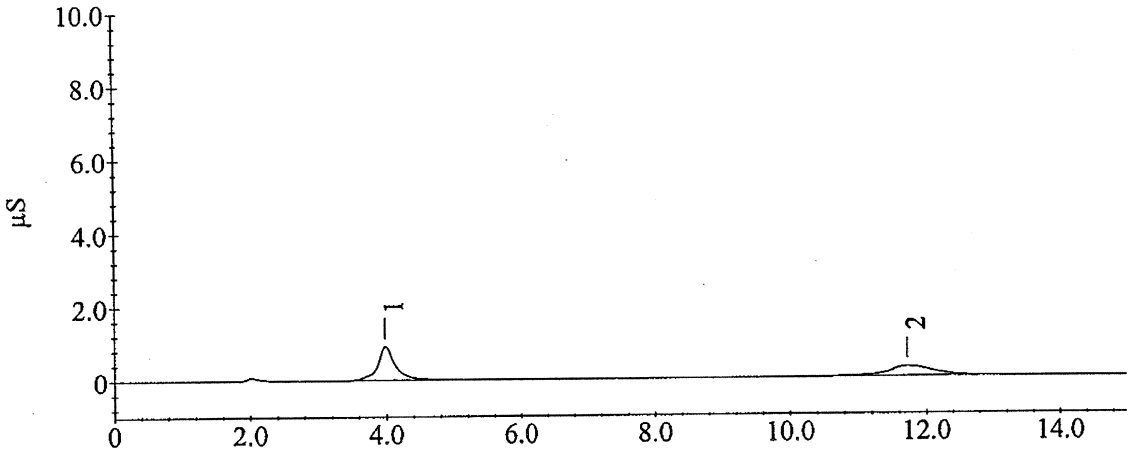
Sample Name : 21105060810
Data File Name : d:\peaknet\data\2011\052011\0512_013.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 14:05:51
System Operator : AEL
Dilution Factor : 500.00
Injection Number : 13

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.98	650.66 ✓	160117	9050
2	SULFATE,14808-79-8	11.72	703.60 ✓	120422	2632

21105060810



211056668 586

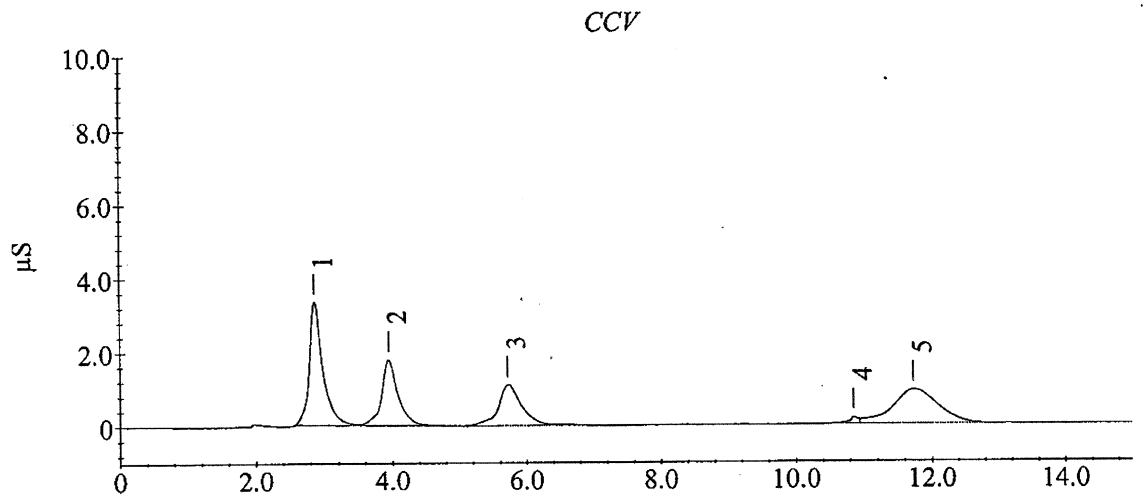
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_014.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 14:23:25
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.36	449954	33155
2	CHLORIDE,16887-00-6	3.95	2.43 97	302484	17748
3	BROMIDE,24959-67-9	5.72	5.22104	274043	11032
4	Unknown 1	10.85	0.00	17794	1796
5	SULFATE,14808-79-8	11.73	4.8797	431849	9239



21105606 587

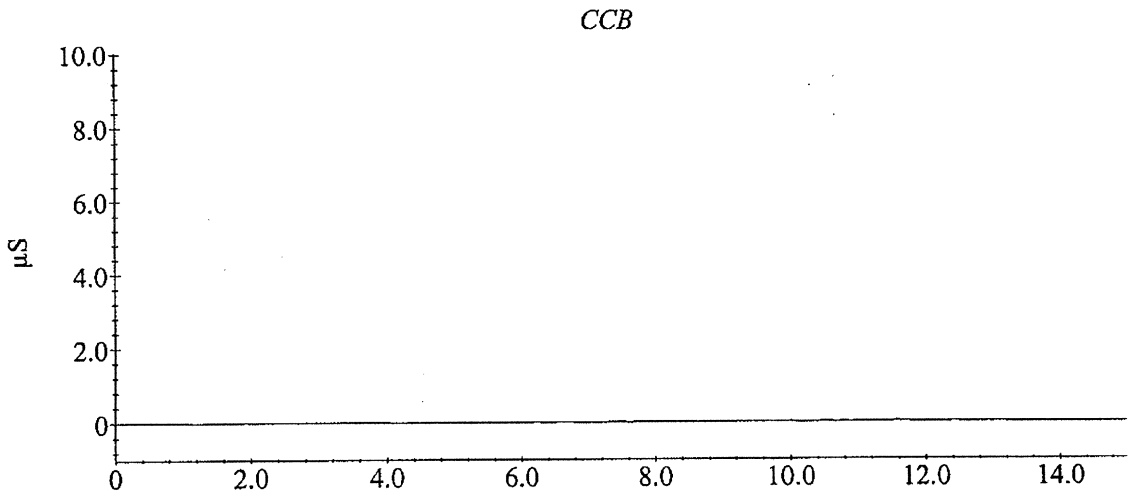
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_015.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 14:41:00
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 15

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211050608 588

Sample Analysis Report

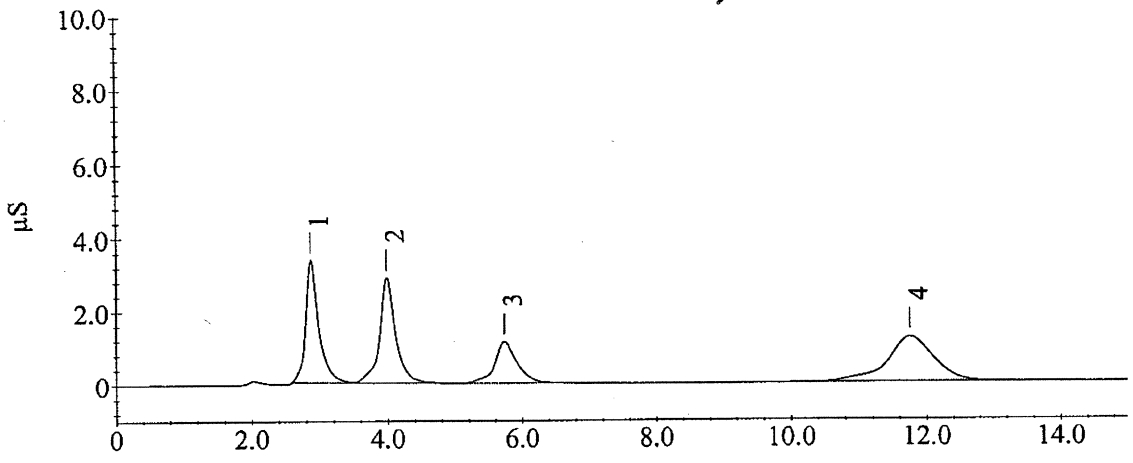
Sample Name : 21105060811 ms
Data File Name : d:\peaknet\data\2011\052011\0512_016.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 14:58:35
System Operator : AEL
Dilution Factor : 500.00
Injection Number : 16

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	1182.17	451439	33185
2	CHLORIDE,16887-00-6	3.98	1900.00 mg/L	475740	28633
3	BROMIDE,24959-67-9	5.73	2486.86	260851	11242
4	SULFATE,14808-79-8	11.75	3255.06 mg/L	579631	12155

21105060811 ms



21105060811 589

Sample Analysis Report

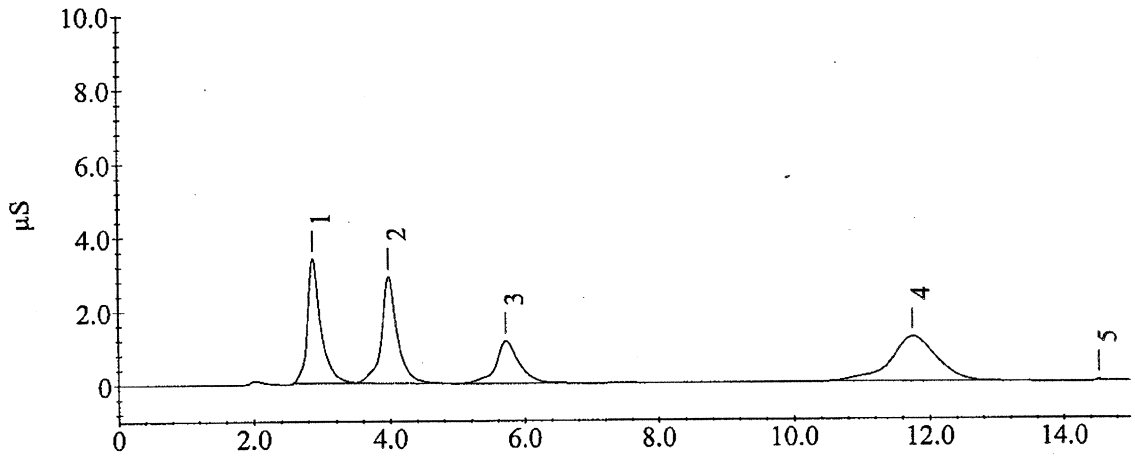
Sample Name : 21105060812 ms0
Data File Name : d:\peaknet\data\2011\052011\0512_017.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 15:16:10
System Operator : AEL
Dilution Factor : 500.00
Injection Number : 17

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	1192.40	455452	33591
2	CHLORIDE,16887-00-6	3.98	1890.8199	473419	28821
3	BROMIDE,24959-67-9	5.72	2624.03	275402	11426
4	SULFATE,14808-79-8	11.75	3231.76101	575438	12127
5	Unknown 1	14.53	0.00	2449	442

21105060812 ms0



21105060812 590

Sample Analysis Report

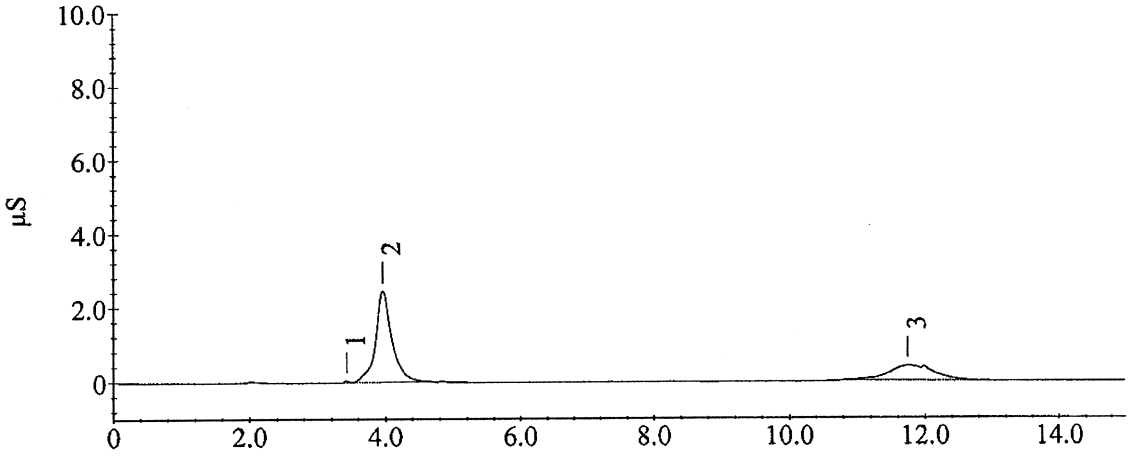
Sample Name : 21105060815
Data File Name : D:\PEAKNET\DATA\2011\052011\0512_018.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 15:33:47
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 18

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	Unknown 1	3.43	0.00	1443	382
2	CHLORIDE,16887-00-6	3.97	3280.20 ✓	410081	24423
3	SULFATE,14808-79-8	11.75	2140.59✓	186420	3910

21105060815



21105060815 591

Sample Analysis Report

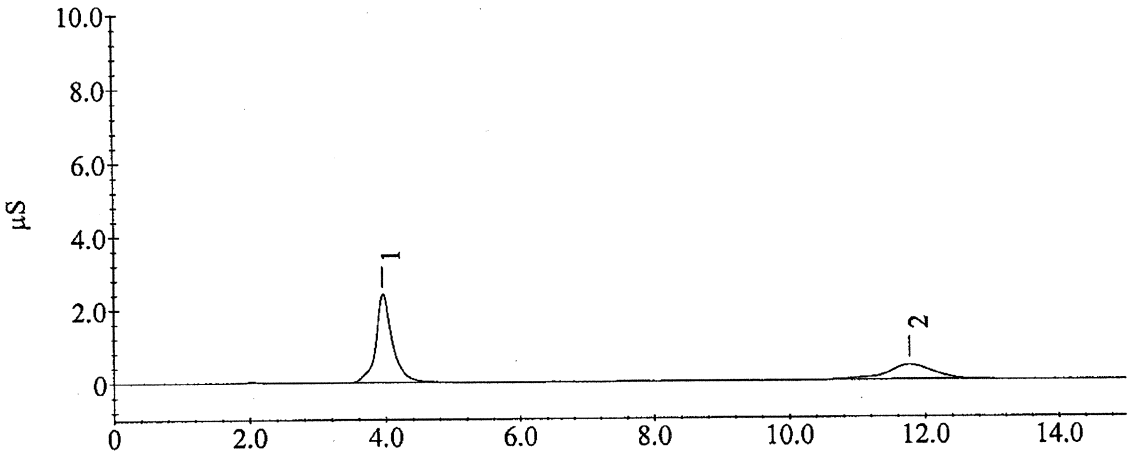
Sample Name : 21105060816
Data File Name : d:\peaknet\data\2011\052011\0512_019.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 15:51:22
System Operator : AEL
Dilution Factor : 1000.00
Injection Number : 19

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.95	3254.93✓	406889	23716
2	SULFATE,14808-79-8	11.77	2151.33 ✓	187386	3928

21105060816



21105060608 592

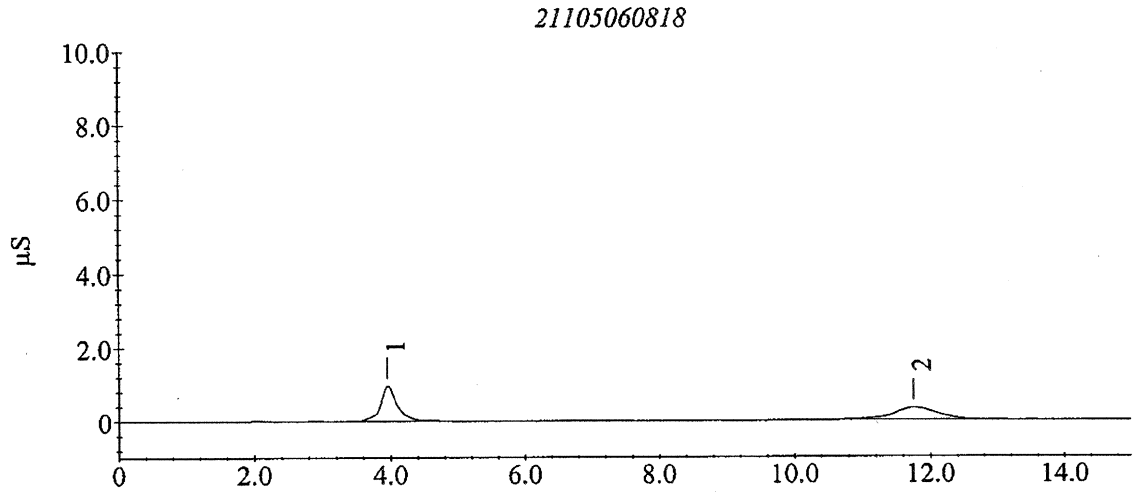
Sample Analysis Report

Sample Name : 21105060818
Data File Name : d:\peaknet\data\2011\052011\0512_020.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 16:08:57
System Operator : AEL
Dilution Factor : 200.00
Injection Number : 20

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.95	268.63✓	165400	9499
2	SULFATE,14808-79-8	11.75	352.08✓	152204	3264



21105060818 593

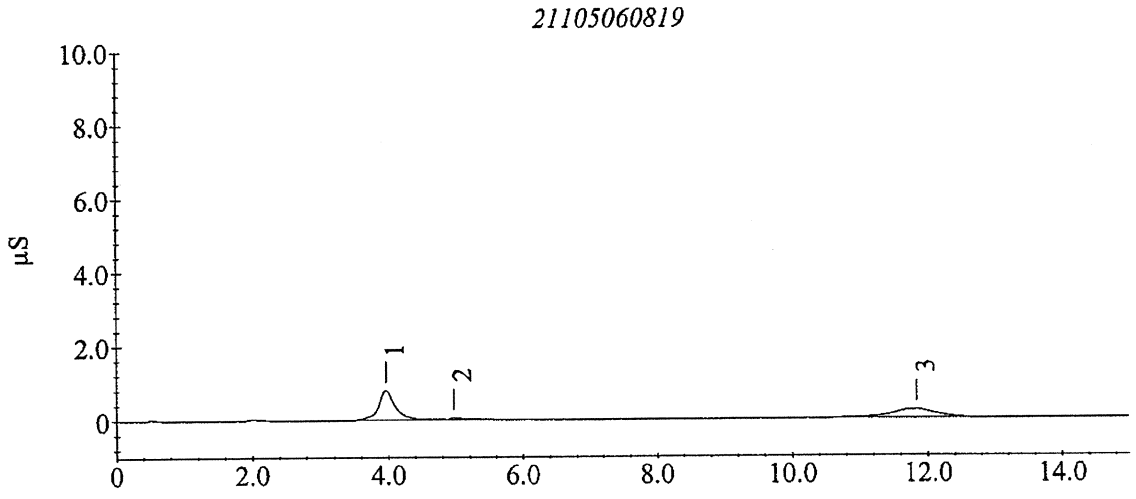
Sample Analysis Report

Sample Name : 21105060819
Data File Name : d:\peaknet\data\2011\052011\0512_021.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 16:26:31
System Operator : AEL
Dilution Factor : 500.00
Injection Number : 21

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.97	536.91✓	131381	7815
2	NITRITE,14797-65-0	4.97	39.40	7766	446
3	SULFATE,14808-79-8	11.83	616.49✓	104743	2269



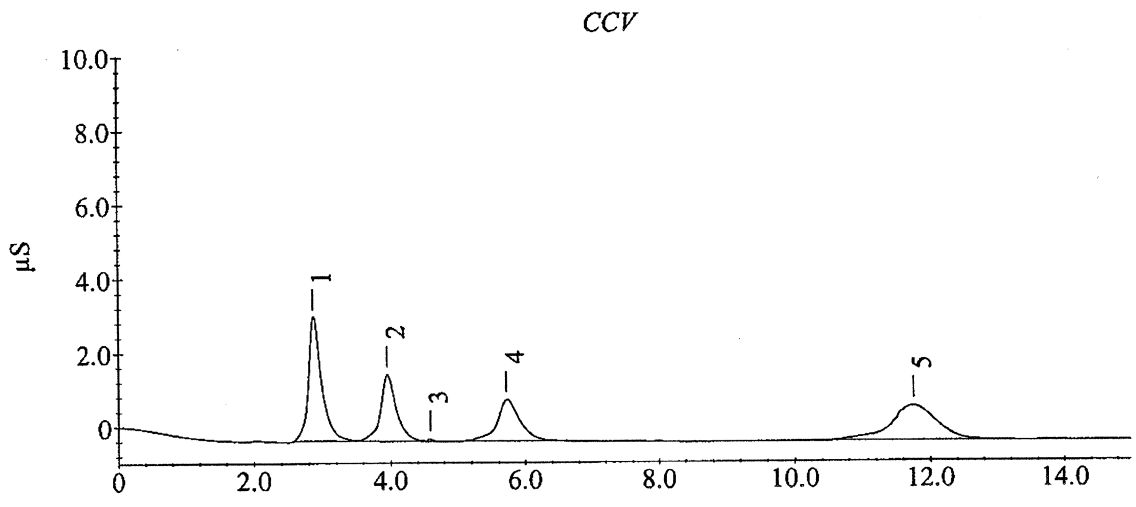
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0512_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 17:54:31
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.36	450030	33288
2	CHLORIDE,16887-00-6	3.95	2.39 96	297425	17922
3	NITRITE,14797-65-0	4.58	0.06	2706	598
4	BROMIDE,24959-67-9	5.72	5.14 103	269803	11095
5	SULFATE,14808-79-8	11.75	5.03 101	446764	9380



211050668 595

Sample Analysis Report

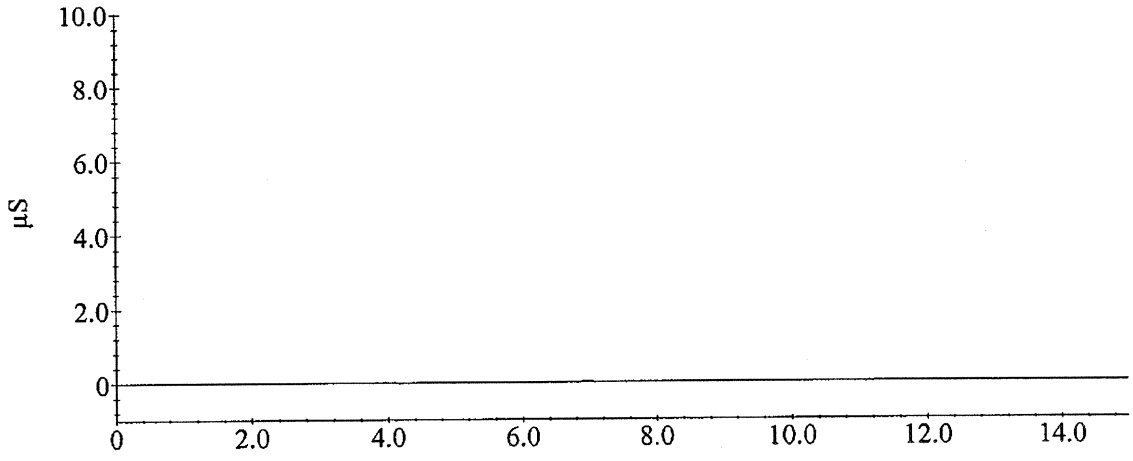
Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0512_027.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/12/2011 18:12:08
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 27

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height

CCB



211056668 596

ANALYST: AG2
DATE: 5-19-11
HBN# 456669 / 3218

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2110125
NO3 ICV/LCS Expiration Date 7-30-12
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2110132
NO2 ICV/LCS Expiration Date 6-30-11
Eluent Lot # 852-12-3
Eluent Expiration Date 12-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: BMC 5/20/11

Revision 0: 1/3/07

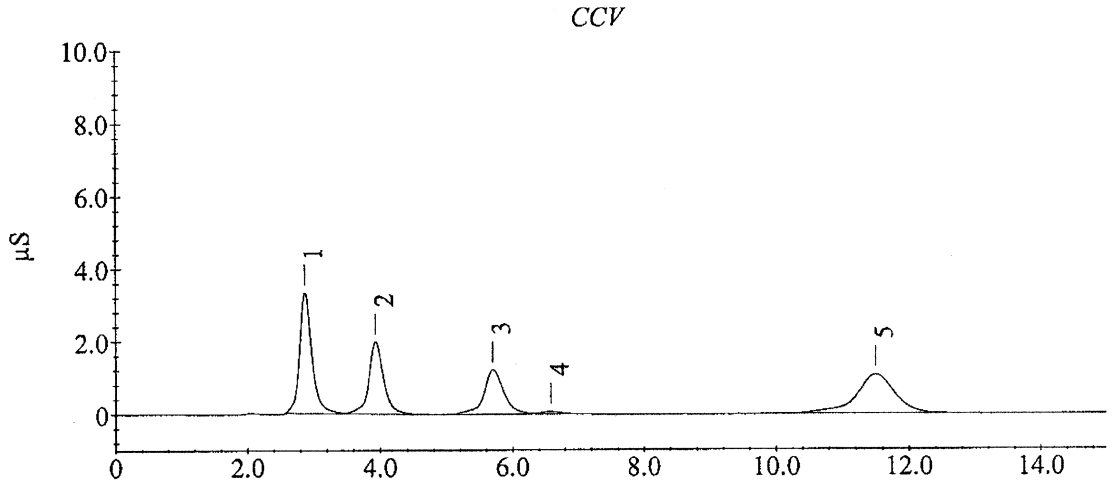
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_001.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 17:05:35
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 1

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.87	2.29 92	436604	33112
2	CHLORIDE,16887-00-6	3.93	2.48 99	309417	19767
3	BROMIDE,24959-67-9	5.70	4.96 99	260123	12185
4	NITRATE,14797-55-8	6.58	0.11	14427	631
5	SULFATE,14808-79-8	11.50	4.86 97	431025	10671



211050608 598

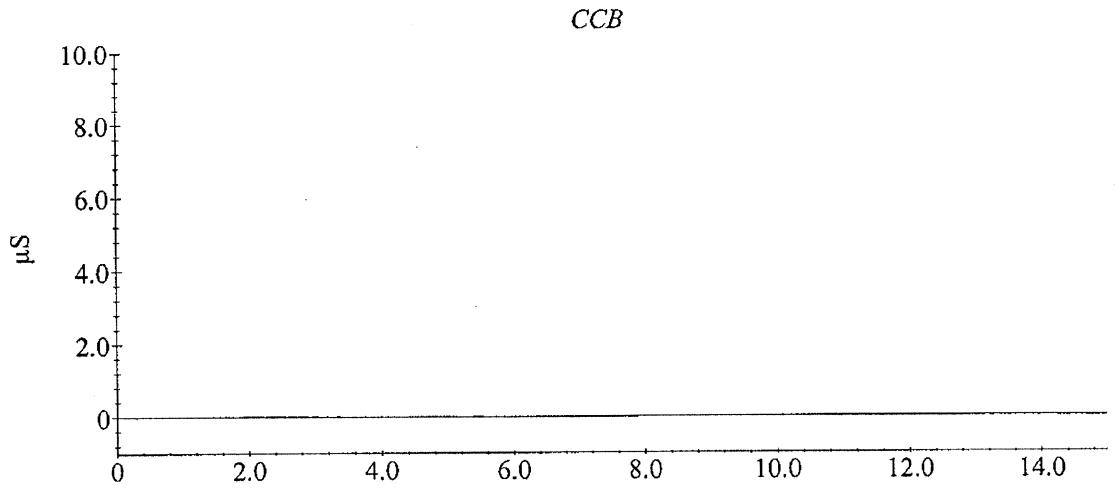
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_002.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 17:23:14
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 2

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



2110506608 599

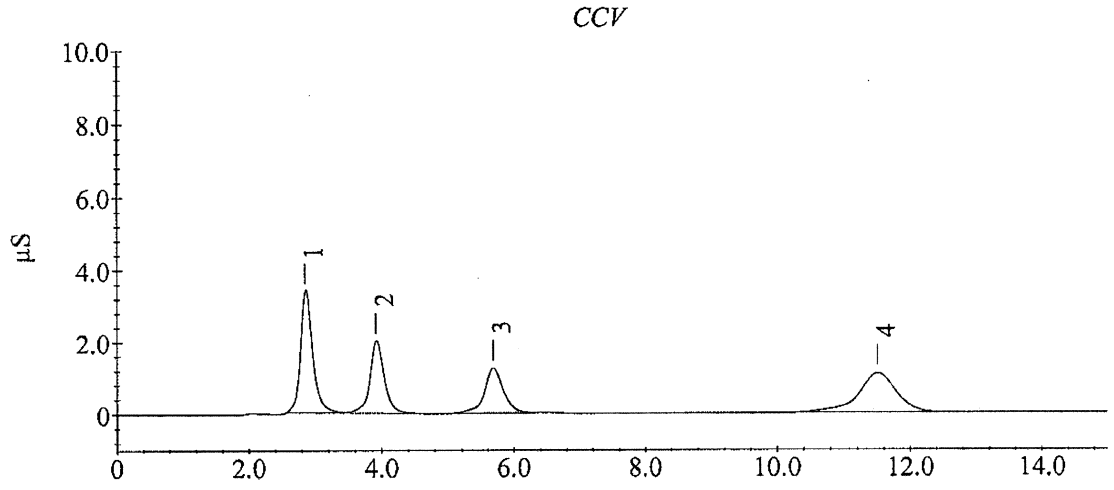
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_013.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 20:36:44
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 13

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.30 92	439451	33549
2	CHLORIDE,16887-00-6	3.92	2.45 98	305283	19895
3	BROMIDE,24959-67-9	5.68	4.82 96	252577	12470
4	SULFATE,14808-79-8	11.50	4.92 98	436228	10930



211059668 699

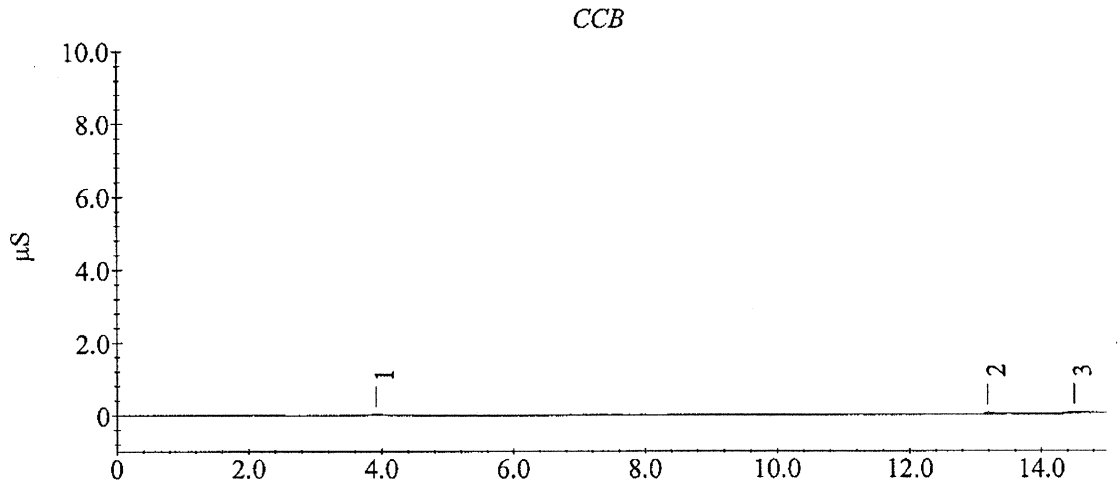
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_014.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/19/2011 20:54:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	3.92	0.05	2060	172
2	Unknown 1	13.18	0.00	4213	494
3	Unknown 2	14.50	0.00	8711	381



211050668 691

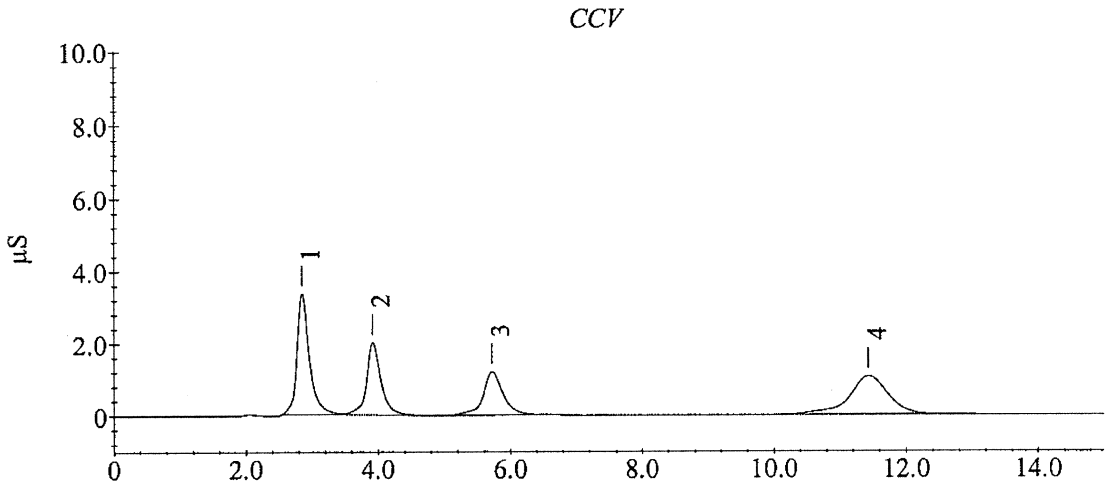
Sample Analysis Report

Sample Name : CCV
Data File Name : d:\peaknet\data\2011\052011\0519_025.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 00:08:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 25

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.29 92	436412	33379
2	CHLORIDE,16887-00-6	3.92	2.50 100	311825	19988
3	BROMIDE,24959-67-9	5.72	4.80 96	251386	11998
4	SULFATE,14808-79-8	11.43	4.85 97	429887	10607



211050698 662

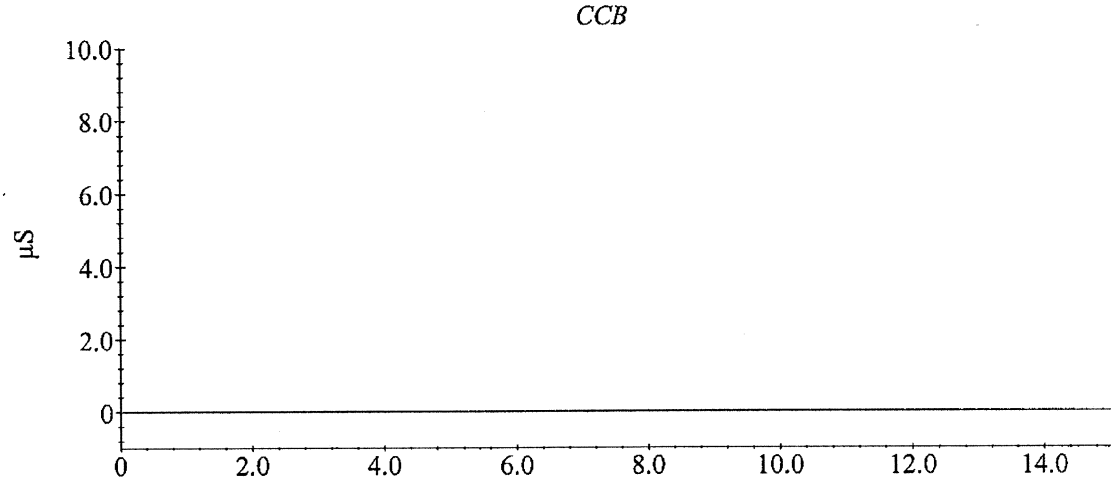
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\052011\0519_026.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 05/20/2011 00:25:58
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 26

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



21050608 693

ANALYST: AB2
DATE: 3-9-11
HBN# ICAL

IC STANDARDS IDS

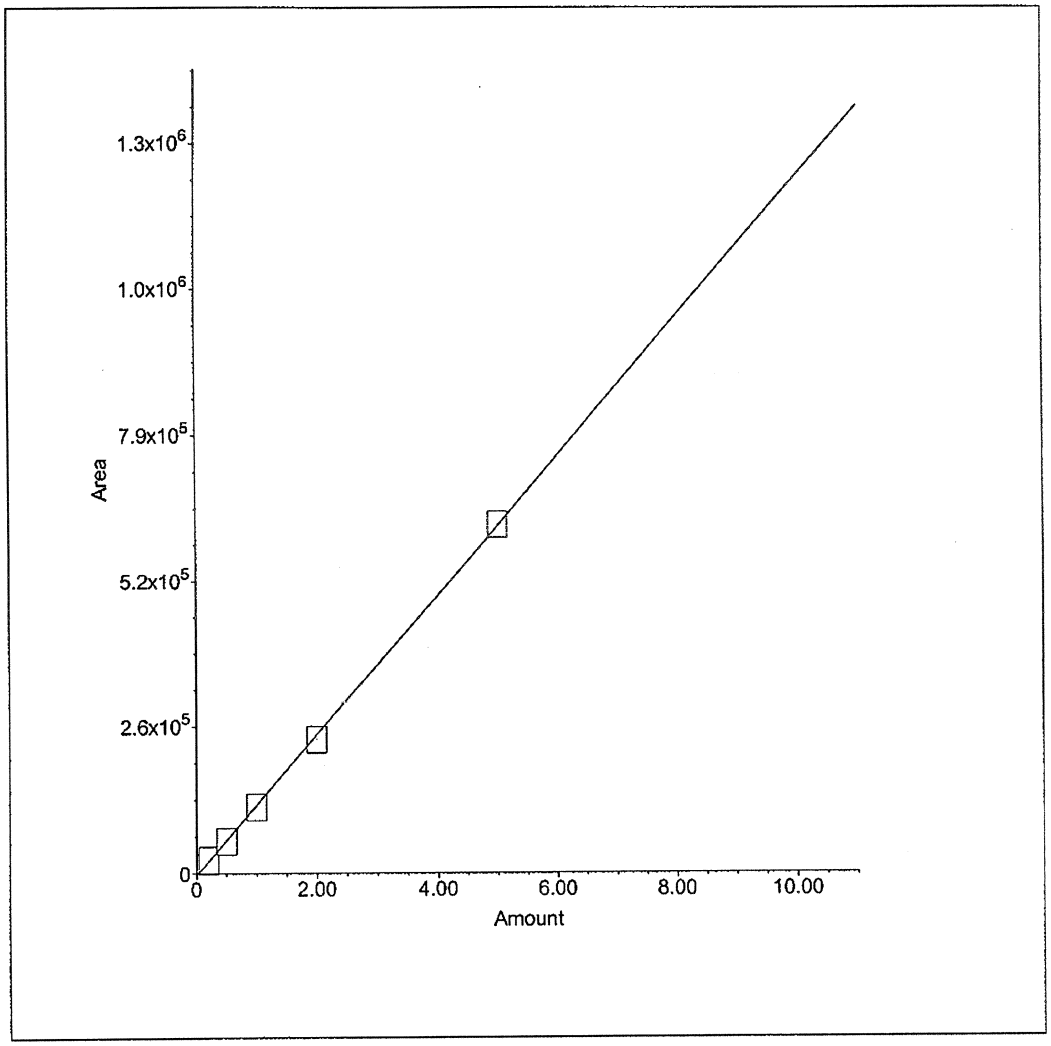
IC **300.0/9056/5050**

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2100029
F ICV/LCS Expiration Date 7-15-11
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2100029
Cl ICV/LCS Expiration Date 7-15-11
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2100029
Br ICV/LCS Expiration Date 7-15-11
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2100029
SO4 ICV/LCS Expiration Date 7-15-11
Nitrate CCV Lot# 2100001
NO3 CCV Expiration Date 8-18-11
Nitrate ICV/LCS Lot# 2100044
NO3 ICV/LCS Expiration Date 3-30-11
Nitrite CCV Lot# 2110091
NO2 CCV Expiration Date 7-30-11
Nitrite ICV/LCS Lot# 2100648
NO2 ICV/LCS Expiration Date 3-30-11
Eluent Lot # 737-99-3
Eluent Expiration Date 6-11
IC Calibration Date 3-9-11
IC Calibration Expiration Date 7-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: Bmc 3/10/11

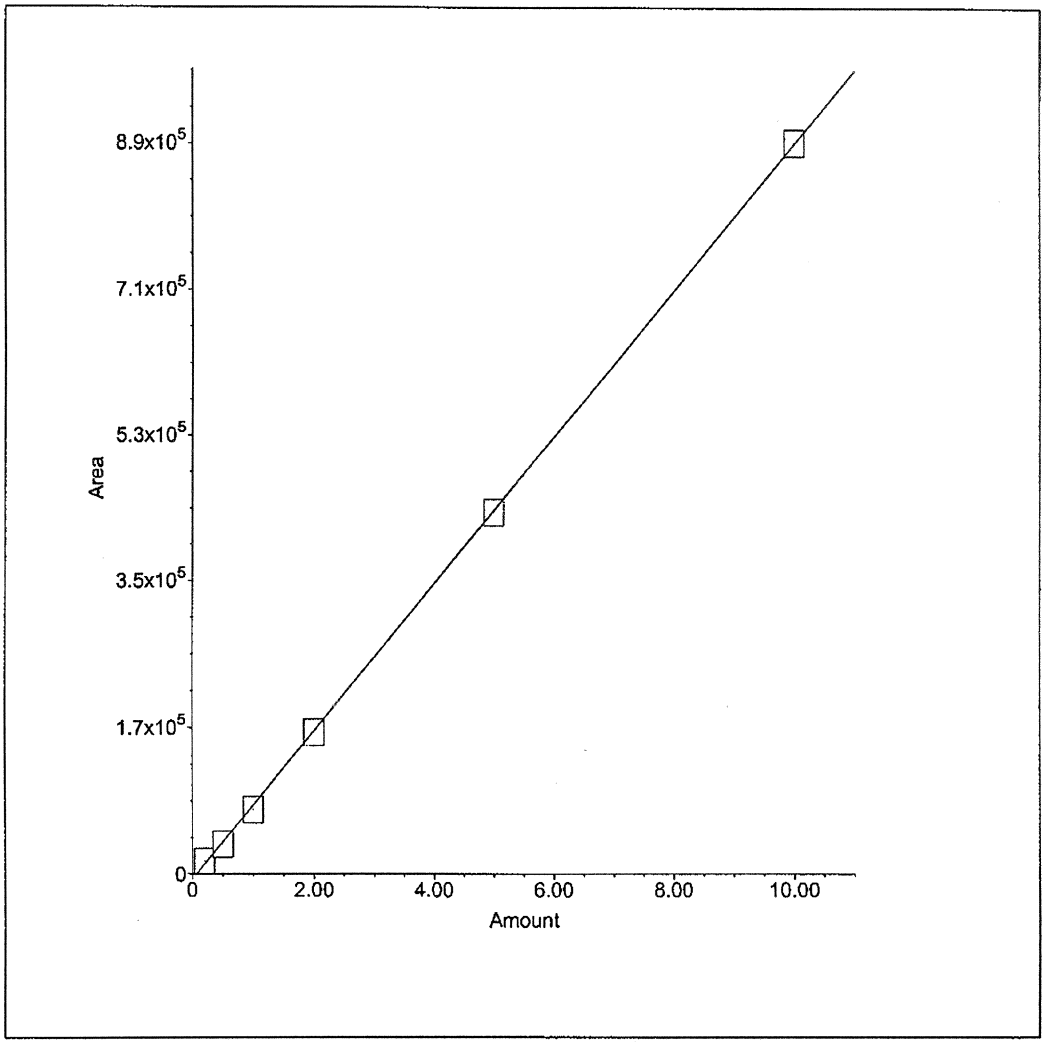
Revision 0: 1/3/07

2. Component:CHLORIDE,16887-00-6
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999603
Amt=7.917e-006*Resp+0.03373



21150668 685

6. Component:SULFATE,14808-79-8
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999855
Amt=1.111e-005*Resp+0.06902



211050608 606

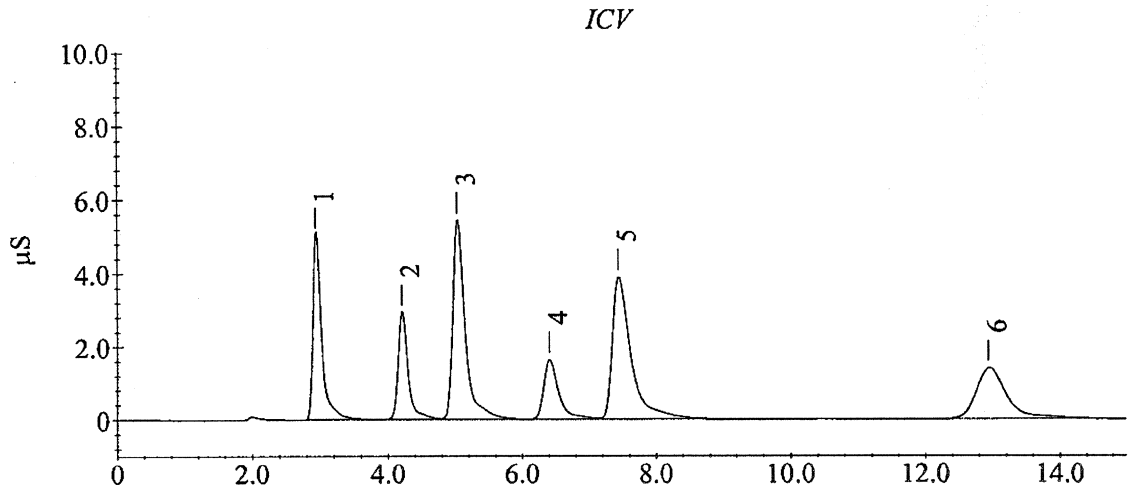
Sample Analysis Report

Sample Name : ICV
Data File Name : D:\PEAKNET\DATA\2011\032011\0309_012.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Date Time Collected : 03/09/2011 15:43:34
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 12

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.93	2.39 96	457013	49961
2	CHLORIDE,16887-00-6	4.20	2.44 98	303954	29050
3	NITRITE,14797-65-0	5.03	2.42 97	698787	54082
4	BROMIDE,24959-67-9	6.40	4.88 98	255750	16206
5	NITRATE,14797-55-8	7.43	2.40 96	758309	38690
6	SULFATE,14808-79-8	12.93	4.89 98	433979	13814



211056698 697

DHL ANALYTICAL

June 02, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1105178

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 12 sample(s) on 5/19/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-5 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

211059688 688

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211050608 609

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105178

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
01	W	5/5/11	1223		X	21105060801			X	MAO2MW001D	
02	W	5/5/11	1516		X	21105060802			X	M114MW004	
03	W	5/6/11	1135		X	21105060805			X	M114MW002	
04	W	5/6/11	1230		X	21105060806			X	EB1	
05	W	5/6/11	1430		X	21105060807			X	M114MW003	
06	W	5/9/11	1416		X	21105060810			X	MAO1MW001	
07	W	5/9/11	1416		X	21105060811 MS OF 0810			X	MAO1MW001-MS	
08	W	5/9/11	1416		X	21105060812 MSD OF 0810			X	MAO1MW001-MSD	
09	W	5/9/11	0955		X	21105060815			X	M114MW001	
10	W	5/9/11	0955		X	21105060816			X	M114MW001-DUP	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	16:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/12/11	1033
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.6° Therm #57 No custody seals

Please fax results to (225)769-4900
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1105178

Chain of Custody Record

Submitted by
Client: GCAL
Address: 7979 GSRI AVE
BATON ROUGE, LA 70808
Contact: DANA MERRILL
Phone: 225-769-4900
Fax: 225-767-5717

Bill to
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 11-0446
Project Name/Number: 211050608
Sampled By: 4747

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATES 6860	Remarks:	Lab ID
W	5/10/11	1111		X	21105060818			X	MAOMW004	
W	5/10/11	1320		X	21105060819			X	MAOMW003	
W	5/16/11	1135		X	21105170901			X	MAO1MW002	
W	5/16/11	1110		X	21105170902			X	MWQ23	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/18/11	16:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/19/11	1533
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.1c Therm #57 no custody seals

Please fax results to (225)769-4900

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211050608 611

From: (225) 769-4901
Michelle Rabom

7979 GSRI Ave

Baton Rouge, LA 70820

Origin ID: OPLA

FedEx Express

J1115102250225

Ship Date: 18MAY11
ActWgt: 37.0 LB
CAD: 101749243/INET3130

Delivery Address Bar Code

SHIP TO: (512) 388-8222

BILL SENDER

JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK, TX 78664

Ref #
Invoice #
PO #
Dept #

THU - 19 MAY A1
PRIORITY OVERNIGHT

TRK# 0201 7947 7395 1481

78664
TX-US

A8 BSMA

AUS

69DG1/1577/EFB

21126868 612

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB | Date Received: 5/19/2011

Work Order Number 1105178 | Received by JB

Checklist completed by: [signature] 5/19/11 (Signature / Date) | Reviewed by: [initials] 5-19-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.6 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

2110506666 613

Laboratory Data Package Signature Page

This data package consists of:

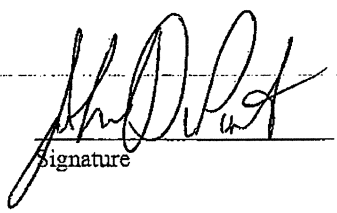
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

06/02/11
Date

2110506608 614

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

2110560608 615

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 6/2/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1105178

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

2110596698 616

Manual Integrations Tracking Form - DoD QSM 4.1 Requirement

Instrument ID: **ICMS-110526A** | **ICAL Folder:** **ICMS_ClO4-101118**

Sample ID ICAL, ICV, LCVL and CCV QC and Field Samples	**Analyte #1** Identification & Reason	**Analyte #2** Identification & Reason	**Analyte #3** Identification & Reason	**Analyte #4** Identification & Reason
LCVL2-110527	Perchlorate – MI due to peak tailing.			

*Manually Integrated = MI

Analyst — Date: 6/1/11

2nd Level Review — Date: 6.1.2011

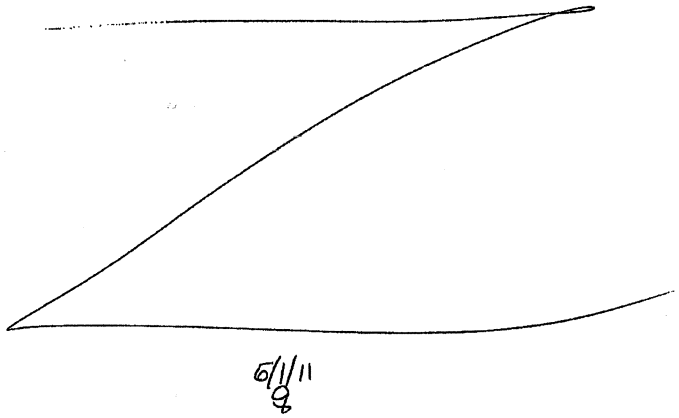
Manual Integrations Tracking Form_ICMS_110526A

Initial Calibration Summary

Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Recording Time:	**5/26/2011 13:16**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	760.8150	225.315	2123.078
ClO4_0.5_1	1321.6500	438.098	2110.703
ClO4_1.0_1	2592.2025	766.631	1981.463
ClO4_2.0_1	5320.6425	1691.033	2149.999
ClO4_5.0_1	13439.1375	4256.550	1944.585
ClO4_7.0_1	18372.6900	5743.980	1987.481
CLO4_10.0_1	25675.2000	8114.985	1895.198

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	-3.952	131.945	0.393	99.924
Perchlorate_101	XQOff	-1.531	41.457	0.145	99.893



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2110530698 618

Internal Standard Summary

Sequence Name:	**110526_CLO4**
Control Program:	**ClO4PGM_101118**
Quantif. Method:	**ClO4_101118**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2028
Low Limit (50%)	1014
High Limit (150%)	3042

Sample Name	Area counts*min ISTD_03 SIM_03B
~~ICV1-110526~~	~~2115.518~~
LRB1-110526	2677.658
LCVL1-110526	2244.308
ICV1-110526	2169.990
ICS1-110526	2549.970
LCS-46494	2028.274
MB-46494	2086.538
1105178-01A	1941.525
1105178-02A	2139.435
1105178-03A	2072.565
1105178-04A	2071.305
1105178-05A	1985.670
1105178-06A	1992.893
1105178-06AMS	2132.741
1105178-06AMSD	2056.028
CCV1-110526	1932.874
LCVL2-110526	2084.220
LRB2-110526	2472.030
1105178-07A	2013.953
1105178-08A	2042.741
1105178-09A	1816.358
1105178-10A	2059.785
1105178-11A	1975.016
1105178-12A	1962.765
1105192-07A	2160.754
1105192-07AMS	2157.615

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2110596698 619

1105192-07AMSD	2126.756
CCV2-110526	1852.234
LCVL3-110526	1920.803
LRB3-110526	2180.250
LRB1-110527	2107.890
LCVL1-110527	1749.184
ICV1-110527	1521.079
ICS1-110527	2074.838
LCS-46519	1766.273
MB-46519	1771.650
1105192-01A	1772.786
1105192-02A	1942.470
1105192-03A	1888.718
1105192-04A	1784.813
1105192-05A	1969.358
1105192-06A	1802.700
1105192-08A	1886.040
1105192-09A	1725.323
1105192-10A	1670.524
1105192-11A	1659.499
CCV1-110527	1531.260
LCVL2-110527	1526.378
LRB2-110527	1958.636
LRB1-110531	2810.340
LCVL1-110531	2208.150
ICV1-110531	2119.725
ICS1-110531	2732.434
1105192-12A	2520.945
1105192-14A	2369.318
1105192-15A	2471.850
1105192-16A	2413.665
1105192-17A	2523.060
1105192-13A	2385.371
1105192-13AMS	2323.620
1105192-13AMSD	2267.269
CCV1-110531	2368.609
LCVL2-110531	2597.040
LRB2-110531	2816.235
BLANK	2908.553
BLANK	n.a.
LCS-46494	2399.603
1105178-01A	2314.811
LCS-46494	2351.329
CCV2-110531	2347.695
LCVL3-110531	2474.899
LRB3-110531	2956.275

6/1/11

2110506668 629

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (This parameter is not NELAC certified)

Exception Report R1-01

The samples were received on and log-in performed on 5/19/11. A total of 12 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R10-01

For Perchlorate analysis several samples were prepared with the smaller volume of 25 ml due to the conductivity of the samples exceeding the MCT. The samples are: 21105060801, 21105060802, 21105060805, 21105060807, 21105060815 and 21105060816. Sample 21105060801 was further prepared with a smaller volume of 10 ml for final analysis because the Perchlorate concentration exeeded the upper calibration range.

Exception Report S5-02

For Perchlorate analysis, some samples and/or standards were manually integrated. Please refer to the table on page 10 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Communication from John DuPont to Dana Merrill concerning the ERPIMS EDD via emails on 5/20/11, 5/31/11 and 6/1/11.

This sample delivery group arrived at DHL Analytical 5/19/11. Sample summary sent via email from Log-in to client on 5/19/11.

2110506068 621

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1105178-01	21105060801		05/05/11 12:23 PM	05/19/11
1105178-02	21105060802		05/05/11 03:16 PM	05/19/11
1105178-03	21105060805		05/06/11 11:35 AM	05/19/11
1105178-04	21105060806		05/06/11 12:30 PM	05/19/11
1105178-05	21105060807		05/06/11 02:30 PM	05/19/11
1105178-06	21105060810		05/09/11 02:16 PM	05/19/11
1105178-07	21105060815		05/09/11 09:55 AM	05/19/11
1105178-08	21105060816		05/09/11 09:55 AM	05/19/11
1105178-09	21105060818		05/10/11 11:11 AM	05/19/11
1105178-10	21105060819		05/10/11 01:20 PM	05/19/11
1105178-11	21105170901		05/16/11 11:35 AM	05/19/11
1105178-12	21105170902		05/16/11 11:10 AM	05/19/11

21105060806 622

DHL Analytical

Date: 06/02/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1105178-01A	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
	21105060801	05/05/11 12:23 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-02A	21105060802	05/05/11 03:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-03A	21105060805	05/06/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-04A	21105060806	05/06/11 12:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-05A	21105060807	05/06/11 02:30 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-06A	21105060810	05/09/11 02:16 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-07A	21105060815	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-08A	21105060816	05/09/11 09:55 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-09A	21105060818	05/10/11 11:11 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-10A	21105060819	05/10/11 01:20 PM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-11A	21105170901	05/16/11 11:35 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494
1105178-12A	21105170902	05/16/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	05/26/11 08:40 AM	46494

211050608 623

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1105178

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1105178-01A	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 03:52 PM	ICMS_110526A
	21105060801	Aqueous	SW6860	Perchlorate - Water	46494	1	05/31/11 04:47 PM	ICMS_110526A
1105178-02A	21105060802	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:10 PM	ICMS_110526A
1105178-03A	21105060805	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:27 PM	ICMS_110526A
1105178-04A	21105060806	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 04:45 PM	ICMS_110526A
1105178-05A	21105060807	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:03 PM	ICMS_110526A
1105178-06A	21105060810	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 05:21 PM	ICMS_110526A
1105178-07A	21105060815	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:07 PM	ICMS_110526A
1105178-08A	21105060816	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:25 PM	ICMS_110526A
1105178-09A	21105060818	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 07:42 PM	ICMS_110526A
1105178-10A	21105060819	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:00 PM	ICMS_110526A
1105178-11A	21105170901	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:18 PM	ICMS_110526A
1105178-12A	21105170902	Aqueous	SW6860	Perchlorate - Water	46494	1	05/26/11 08:35 PM	ICMS_110526A

21105038 024

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060801
Lab ID: 1105178-01
Collection Date: 05/05/11 12:23 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0224	0.000495	0.00149	N	mg/L	1	05/31/11 04:47 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

21105060801 625

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060802
Lab ID: 1105178-02
Collection Date: 05/05/11 03:16 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00279	0.000198	0.000594	N	mg/L	1	05/26/11 04:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050608 626

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060805
Lab ID: 1105178-03
Collection Date: 05/06/11 11:35 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00280	0.000198	0.000594	N	mg/L	1	05/26/11 04:27 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

21105060805 627

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060806
Lab ID: 1105178-04
Collection Date: 05/06/11 12:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 04:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21105060608 628

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060807
Lab ID: 1105178-05
Collection Date: 05/06/11 02:30 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00410	0.000198	0.000594	N	mg/L	1	05/26/11 05:03 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050608 629

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060810
Lab ID: 1105178-06
Collection Date: 05/09/11 02:16 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000369	0.000100	0.000300	N	mg/L	1	05/26/11 05:21 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21105060810 630

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060815
Lab ID: 1105178-07
Collection Date: 05/09/11 09:55 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00327	0.000198	0.000594	N	mg/L	1	05/26/11 07:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

211050608 631

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060816
Lab ID: 1105178-08
Collection Date: 05/09/11 09:55 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00324	0.000198	0.000594	N	mg/L	1	05/26/11 07:25 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

2110506608 632

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060818
Lab ID: 1105178-09
Collection Date: 05/10/11 11:11 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00980	0.000100	0.000300	N	mg/L	1	05/26/11 07:42 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21105060818 633

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105060819
Lab ID: 1105178-10
Collection Date: 05/10/11 01:20 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00103	0.000100	0.000300	N	mg/L	1	05/26/11 08:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21105060819 634

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105170901
Lab ID: 1105178-11
Collection Date: 05/16/11 11:35 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00205	0.000100	0.000300	N	mg/L	1	05/26/11 08:18 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211050608 635

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 211050608
Lab Order: 1105178

Client Sample ID: 21105170902
Lab ID: 1105178-12
Collection Date: 05/16/11 11:10 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000300	0.000100	0.000300	NU	mg/L	1	05/26/11 08:35 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	MB-46494	**Batch ID:**	46494		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MBLK	**Run ID:**	ICMS_110526A		**Analysis Date:**		05/26/11 03:34 PM		**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000300	0.000300								NU

Sample ID:	1105178-06AMS	**Batch ID:**	46494		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MS	**Run ID:**	ICMS_110526A		**Analysis Date:**		05/26/11 05:38 PM		**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000690	0.000300	0.000300	0.000369	107	85	115			N

Sample ID:	1105178-06AMSD	**Batch ID:**	46494		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MSD	**Run ID:**	ICMS_110526A		**Analysis Date:**		05/26/11 05:56 PM		**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000653	0.000300	0.000300	0.000369	94.8	85	115	5.47	20	N

Sample ID:	LCS-46494	**Batch ID:**	46494		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	LCS	**Run ID:**	ICMS_110526A		**Analysis Date:**		05/31/11 04:30 PM		**Prep Date:**		05/26/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000324	0.000300	0.000300	0	108	85	115			N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

211050688 637

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Sample ID:	LCVL1-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:23 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000220	0.000300	0.000200	0	110	70	130			N
Sample ID:	ICV1-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	ICV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:41 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00202	0.000300	0.00200	0	101	85	115			N
Sample ID:	ICS1-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	ICS	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 02:59 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000261	0.000300	0.000300	0	87.1	85	115			N
Sample ID:	CCV1-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	CCV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 06:14 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00506	0.000300	0.00500	0	101	85	115			N
Sample ID:	LCVL2-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 06:31 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000227	0.000300	0.000200	0	114	70	130			N
Sample ID:	CCV2-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	CCV	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 09:46 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00493	0.000300	0.00500	0	98.6	85	115			N
Sample ID:	LCVL3-110526	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/26/11 10:04 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000257	0.000300	0.000200	0	129	70	130			N
Sample ID:	LCVL1-110527	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 10:39 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000196	0.000300	0.000200	0	98.2	70	130			N
Sample ID:	ICV1-110527	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	ICV	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 10:57 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00200	0.000300	0.00200	0	100	85	115			N
Sample ID:	ICS1-110527	Batch ID:	R55139		TestNo:		SW6860		Units:		mg/L
SampType:	ICS	Run ID:	ICMS_110526A		Analysis Date:		05/27/11 11:14 AM		Prep Date:		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

211056698 635

CLIENT: GCAL LAB
Work Order: 1105178
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110526A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000291	0.000300	0.000300	0	97.1	85	115			N

Sample ID:	CCV1-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 03:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00467	0.000300	0.00500	0	93.4	85	115			N

Sample ID:	LCVL2-110527	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/27/11 03:22 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000179	0.000300	0.000200	0	89.3	70	130			N

Sample ID:	LCVL1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 10:31 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000237	0.000300	0.000200	0	119	70	130			N

Sample ID:	ICV1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 10:48 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00192	0.000300	0.00200	0	96.1	85	115			N

Sample ID:	ICS1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 11:06 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000287	0.000300	0.000300	0	95.8	85	115			N

Sample ID:	CCV1-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 01:45 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL2-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 02:03 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000233	0.000300	0.000200	0	116	70	130			N

Sample ID:	CCV2-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 05:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00494	0.000300	0.00500	0	98.8	85	115			N

Sample ID:	LCVL3-110531	Batch ID:	R55139	TestNo:	SW6860	Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110526A	Analysis Date:	05/31/11 05:41 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000247	0.000300	0.000200	0	123	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110526GG 639

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB1-110526	-----	SW6860	R55139	1	05/26/11 02:06 PM	
LCVL1-110526	-----	SW6860	R55139	1	05/26/11 02:23 PM	
ICV1-110526	-----	SW6860	R55139	1	05/26/11 02:41 PM	
ICS1-110526	-----	SW6860	R55139	1	05/26/11 02:59 PM	
LCS-46494	-----	SW6860	46494	1	05/26/11 03:17 PM	05/26/11
MB-46494	-----	SW6860	46494	1	05/26/11 03:34 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/26/11 03:52 PM	05/26/11
1105178-02A	21105060802	SW6860	46494	1	05/26/11 04:10 PM	05/26/11
1105178-03A	21105060805	SW6860	46494	1	05/26/11 04:27 PM	05/26/11
1105178-04A	21105060806	SW6860	46494	1	05/26/11 04:45 PM	05/26/11
1105178-05A	21105060807	SW6860	46494	1	05/26/11 05:03 PM	05/26/11
1105178-06A	21105060810	SW6860	46494	1	05/26/11 05:21 PM	05/26/11
1105178-06AMS	21105060810MS	SW6860	46494	1	05/26/11 05:38 PM	05/26/11
1105178-06AMSD	21105060810MSD	SW6860	46494	1	05/26/11 05:56 PM	05/26/11
CCV1-110526	-----	SW6860	R55139	1	05/26/11 06:14 PM	
LCVL2-110526	-----	SW6860	R55139	1	05/26/11 06:31 PM	
LRB2-110526	-----	SW6860	R55139	1	05/26/11 06:49 PM	
1105178-07A	21105060815	SW6860	46494	1	05/26/11 07:07 PM	05/26/11
1105178-08A	21105060816	SW6860	46494	1	05/26/11 07:25 PM	05/26/11
1105178-09A	21105060818	SW6860	46494	1	05/26/11 07:42 PM	05/26/11
1105178-10A	21105060819	SW6860	46494	1	05/26/11 08:00 PM	05/26/11
1105178-11A	21105170901	SW6860	46494	1	05/26/11 08:18 PM	05/26/11
1105178-12A	21105170902	SW6860	46494	1	05/26/11 08:35 PM	05/26/11
CCV2-110526	-----	SW6860	R55139	1	05/26/11 09:46 PM	
LCVL3-110526	-----	SW6860	R55139	1	05/26/11 10:04 PM	
LRB3-110526	-----	SW6860	R55139	1	05/26/11 10:22 PM	
LRB1-110527	-----	SW6860	R55139	1	05/27/11 10:21 AM	
LCVL1-110527	-----	SW6860	R55139	1	05/27/11 10:39 AM	
ICV1-110527	-----	SW6860	R55139	1	05/27/11 10:57 AM	
ICS1-110527	-----	SW6860	R55139	1	05/27/11 11:14 AM	
CCV1-110527	-----	SW6860	R55139	1	05/27/11 03:04 PM	
LCVL2-110527	-----	SW6860	R55139	1	05/27/11 03:22 PM	
LRB2-110527	-----	SW6860	R55139	1	05/27/11 03:40 PM	
LRB1-110531	-----	SW6860	R55139	1	05/31/11 10:13 AM	
LCVL1-110531	-----	SW6860	R55139	1	05/31/11 10:31 AM	
ICV1-110531	-----	SW6860	R55139	1	05/31/11 10:48 AM	
ICS1-110531	-----	SW6860	R55139	1	05/31/11 11:06 AM	
CCV1-110531	-----	SW6860	R55139	1	05/31/11 01:45 PM	
LCVL2-110531	-----	SW6860	R55139	1	05/31/11 02:03 PM	

2110506698 649

Lab Order: 1105178
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110526A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
LRB2-110531	-----	SW6860	R55139	1	05/31/11 02:21 PM	
LCS-46494	-----	SW6860	46494	1	05/31/11 04:30 PM	05/26/11
1105178-01A	21105060801	SW6860	46494	1	05/31/11 04:47 PM	05/26/11
CCV2-110531	-----	SW6860	R55139	1	05/31/11 05:23 PM	
LCVL3-110531	-----	SW6860	R55139	1	05/31/11 05:41 PM	
LRB3-110531	-----	SW6860	R55139	1	05/31/11 05:58 PM	

211050606 641

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050609 ~~211050128~~	5/13-4

Report to:
Client: Trinity AOC
Address: 90 NW Beal Pkwy Suite 2
Ft Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-6045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Extractables	Cr VI	Cyanide (NaOH)	Perchlorate	Cations/Anions (NO3)	ALKALITS	VOC (HCL)	Dissolved Metals (HNO3)	Lab ID 4.1	Remarks:
GW	5/5/11	926		✓	MW02		7	X		X	X	X	X	X		X	/	* ~~+3~~ n
GW	5/5/11	1223		✓	MA02MW001D		12	X	X	X	X	X	X	X	X	X	1	~~++~~ n
GW	5/5/11	1516		✓	M114MW004		12	X	X	X	X	X	X	X	X	X	2	~~+2~~ n
	5/5/11	926			TB1		3										3	~~4~~ n
	5/5/11	926			TB2		3										4	~~+5~~ n

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ ~~Standard~~ ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/5/11	1555
		5/6/11	910

Note: * Sample not a regular watch

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21050608	

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ste A2
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 2072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number

Sampled By:
B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Ext Lubes	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC (HCl) 8260	Remarks:	Lab ID
GW	5/6/11	1135		X	MW14 MW007		12	X	X	X	X	X	X	X	X	X		5
	5/6/11	1230		X	EB1		12	X	X	X	X	X	X	X	X	X		6
GW	5/6/11	1430		X	MW14 MW003		12	X	X	X	X	X	X	X	X	X		7
	5/6/11				TB4		3									X		8
	5/6/11				TB5		3									X		9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex	5/6/11	1523
Fedex		5/6/11	
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time: 0857
		5/7/11	
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	211050608	5/17/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Ste A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCl)	ALK T/TS	Perchlorate	C-ISO4/HNO3/NaOH	Cr VI	Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X	*	
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X	*	
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X		10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X		11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X		12, 13
	5/9/11				TBC		3					X						14
	~~5/9/11~~				TB7		3					X						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Fedex		5-10-11	850

Note: * samples will be received at lab 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050668	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 2430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCL)	ALKT/TS	Perchlorate	1,4 DIOXANE (H2SO4/NO3/NaOH)	CrVI	Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X	*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X	*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X		
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X		
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X		
	5/9/11				TB6		3					X						
	5/9/11				TB7		3					X						
	5/10/11				TB8 *													17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5-10-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * samples received 5-11-11 @ 725

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21105060	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0077
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NAOH)	Perchlorate	VOCs (HCL)	ALKTS	Cl/SO4 NO3 / NO2	CrVI	Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X		18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X		19
	5/10/11				TB7		3						X					20
					TB8		3						X				X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5-11-11	845
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211050608

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4717	~~211050426~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 6072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cr VI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	ALK/TS	VOCs (HCL)	Lab ID	Remarks:
GW	5/16/11	935		x	MA01 MWQ02		12	X	x	x	x	x	x	x	x	x	21105170901	
GW	5/16/11	1110		x	MWQ23		12	X	x	x	X	x	x	x	x	x	21105170902	
					TB9		3									x	21105170903	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/16/11	1539
Fed Ex	Fed Ex		
		5/17/11	0900

Note: MWQ23 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

3CAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211050608

Client: 4747 - Trinity Analytical & Development

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Raborn, Michelle

Received Date/Time: 5/7/2011 8:57:00 AM; 5/6/2011 910AM 5/10/11 0850AM 5/11/11 0725 AM 5/11/11 0845 AM 5/17/11 0900AM

Samples Received via: EXT

Number of Coolers Received: 9

Cooler tracking numbers(s): 8735 2663 9267, 8735 2663 9155, 8735 2663 9166, 8735 2663 9213, 8735 2663 9225 8735 2663 8939

Cooler temperature(s): Varios noted on COC

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☑ No	☐ N/A
Was preservative added to any container at the lab?	☑ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Containers preserved at the laboratory: ~~211050608802~~-5(L-HNO3) Dissolved metals 5/20/11
211050608802 211050608802

Notes/Comments: Samples were received on multiple days Kept open due to client request. All dates and times noted on the COC.

Southeast
ACCUTEST LABORATORIES

06/02/11

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82298

Sampling Date: 05/11/11

Report to:

Trinity Analysis & Development Corp
90 NW Beal Parkway Suite A2
Fort Walton Beach, FL 32548
jkramer@trinityadc.com; jbrown@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **91**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82298

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F82298-1	05/11/11	11:01	BS	05/12/11	AQ	Ground Water	MWQ 22
F82298-1F	05/11/11	11:01	BS	05/12/11	AQ	Groundwater Filtered	MWQ 22

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job** F82298

Site: Melrose Air Force Range, NM **Report Date:** 5/31/2011 8:13:13 AM

1 Sample was collected on 05/11/2011 and was received at Accutest SE on 05/12/2011 properly preserved, at 2.8 Deg. C and intact. The Sample received an Accutest job number of F82298. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP20592

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples F82099-1MS, F82099-1MSD, F82099-1PS, F82099-1SDL, F82099-1DUP were used as the QC samples for metals.
- Matrix Spike Recoverys for Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix
- Matrix Spike Recovery for Calcium is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPDs for Duplicate for Antimony, Cobalt, Copper, Lead, Selenium, Thallium, Vanadium are outside control limits for sample MP20592-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPDs for Serial Dilution for Aluminum, Cobalt, Selenium, Thallium, Vanadium, Zinc, Manganese are outside control limits for sample MP20592-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP20592-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.
- MP20592-SD1 for Manganese: Serial dilution indicates possible matrix interference.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP20614

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples F82144-15MS, F82144-15MSD, F82144-15SDL, F82144-15DUP were used as the QC samples for metals.
- RPD for Duplicate for Mercury is outside control limits for sample MP20614-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD for Serial Dilution for Mercury is outside control limits for sample MP20614-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP16981

- All samples were prepped within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples F82290-1DUP, F82290-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.
- Matrix Spike Recoverys for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate are outside control limits. Probable cause due to matrix interference.

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17002

- All samples were prepped within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples F82309-2MS, F82309-2MSD, F82309-2DUP were used as the QC samples for Cyanide, Total.
- RPD for Duplicate for Cyanide, Total is outside control limits for sample GP17002-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN44611

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples F82311-13DUP, F82311-13MS, F82311-13MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN44520

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD for Duplicate for Solids, Total Dissolved is outside control limits for sample GN44520-D1. High RPD due to possible sample nonhomogeneity.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN44502

- All method blanks for this batch meet method specific criteria.
- Samples F82298-1DUP, F82298-1MS were used as the QC samples for Chromium, Hexavalent.
- The following samples were run outside of holding time for method SW846 7196A: F82298-1. Sample received at the end of hold time and analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 31, 2011

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, May 31, 2011

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MWQ 22
Lab Sample ID: F82298-1
Matrix: AQ - Ground Water
Project: Melrose Air Force Range, NM

Date Sampled: 05/11/11
Date Received: 05/12/11
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	35300	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14800	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	402	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	320000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MWQ 22		
Lab Sample ID:	F82298-1	**Date Sampled:**	05/11/11
Matrix:	AQ - Ground Water	**Date Received:**	05/12/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	150	5.0	mg/l	1	05/20/11	LE	SM19 2320B
Chloride	317	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0030 U	0.010	mg/l	1	05/12/11 14:15	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/18/11 15:01	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	1.8	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.50	0.50	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	1020	100	mg/l	1	05/13/11 13:00	CP	SM19 2540C
Sulfate	228	10	mg/l	5	05/13/11 20:24	LT	EPA 300/SW846 9056A

RL = Reporting Limit

Report of Analysis

Client Sample ID: MWQ 22
Lab Sample ID: F82298-1F
Matrix: AQ - Groundwater Filtered
Project: Melrose Air Force Range, NM

Date Sampled: 05/11/11
Date Received: 05/12/11
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	34400	1000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	14500	5000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	398	15	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/20/11	05/20/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	308000	50000	ug/l	5	05/17/11	05/18/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	< 20	20	ug/l	1	05/17/11	05/17/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8951
(2) Instrument QC Batch: MA8952
(3) Instrument QC Batch: MA8959
(4) Prep QC Batch: MP20592
(5) Prep QC Batch: MP20614

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F82298 PAGE 1 OF 1

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy #2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: jkramer@trinityadc.com
Phone#: 850 243 0072
Sampler(s) Name(s) (Printed):

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	CONTAINER INFORMATION TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	Dissolved Metals	Total Metals	Cyanide	Perchlorate	CVOA	ATRT/TS	Cl/SO4/NO3/NO2	LAB USE ONLY
1	MW2 22	5/11/11	1101	BS	GW	6				X	X					X	X	X	X	X	X	X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1 R. Steed	5/12/11 1500	2	3	05-12-11 1600	4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

4.1 4

F82298: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82298 CLIENT: Trinity ADC PROJECT: ?

DATE/TIME RECEIVED: 05-12-11 16:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 6122 2462

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE ET 05-12-11 REVIEWER SIGNATURE/DATE 05/12/11

NF 12/10 receipt confirmation 122910.xls

F82298: Chain of Custody
Page 2 of 3

Job Change Order: F82298_5/13/2011

Requested Date:	5/13/2011	**Received Date:**	5/12/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/26/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82298-all

Change: Project is Melrose in NM. Metals are MTAL, Where COC says TS= TDS, all per Jonathan K. at Trinity via phone.

Above Changes Jonathan K. at Trinity **Date:** 5/13/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82298: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:42	MA8951-STD1	1		STDA
09:46	MA8951-STD2	1		STDB
09:49	MA8951-STD3	1		STDC
09:53	MA8951-HSTD1	1		
09:57	MA8951-ICV1	1		
10:06	MA8951-ICB1	1		
10:10	MA8951-CRIA1	1		
10:19	MA8951-ICSA1	1		
10:27	MA8951-ICSAB1	1		
10:32	MA8951-CCV1	1		
10:38	MA8951-CCB1	1		
10:42	ZZZZZZ	4		
10:46	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:59	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:26	MA8951-CCV2	1		
11:29	MA8951-CCB2	1		
11:34	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:47	F81989-15	1		(sample used for QC only; not part of login F82298)
11:51	MP20581-D2	1		
11:55	MP20581-MB2	1		
12:00	MP20581-B2	1		
12:04	MP20582-MB1	1		
12:08	MP20582-B1	1		
12:12	F81989-19	1		(sample used for QC only; not part of login F82298)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:16	MA8951-CCV3	1		
12:20	MA8951-CCB3	1		
12:25	MP20582-D1	1		
12:29	MP20582-SD1	5		
12:33	MP20582-S1	1		
12:37	MP20582-S2	1		
12:42	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:03	F81989-22	1		(sample used for QC only; not part of login F82298)
13:08	MA8951-CCV4	1		
13:12	MA8951-CCB4	1		
13:16	MP20582-D2	1		
13:20	MP20582-MB2	1		
13:25	MP20582-B2	1		
13:29	MP20588-MB1	1		
13:33	MP20588-B1	1		
13:37	F82402-1	1		(sample used for QC only; not part of login F82298)
13:41	MP20588-D1	1		
13:46	MP20588-SD1	5		
13:50	MP20588-PS1	1		
13:54	MP20588-S1	1		
13:58	MA8951-CCV5	1		
14:02	MA8951-CCB5	1		
14:06	MP20588-S2	1		
14:10	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:27	ZZZZZZ	1		
14:31	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:36	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:48	MA8951-CCV6	1		
14:52	MA8951-CCB6	1		
14:57	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:27	ZZZZZZ	1		
15:32	ZZZZZZ	1		
15:36	ZZZZZZ	1		
15:41	MA8951-CCV7	1		
15:45	MA8951-CCB7	1		
15:49	MP20589-MB1	1		
15:53	MP20589-B1	1		
15:57	F82402-7	1		(sample used for QC only; not part of login F82298)
16:01	MP20589-D1	1		
16:06	MP20589-SD1	5		
16:10	MP20589-PS1	1		
16:22	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:31	MA8951-CCV8	1		
16:35	MA8951-CCB8	1		
16:39	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:51	ZZZZZZ	1		
16:56	ZZZZZZ	1		
17:00	ZZZZZZ	1		
17:08	ZZZZZZ	1		
17:13	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:17	ZZZZZZ	1		
17:21	MA8951-CCV9	1		
17:25	MA8951-CCB9	1		
17:29	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:46	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:54	ZZZZZZ	1		
17:59	MP20592-MB1	1		
18:03	MP20592-B1	1		
18:07	F82099-1	1		(sample used for QC only; not part of login F82298)
18:11	MA8951-CCV10	1		
18:15	MA8951-CCB10	1		
18:20	MP20592-D1	1		
18:24	MP20592-SD1	5		
18:28	MP20592-PS1	1		
18:32	MP20592-S1	1		
18:36	MP20592-S2	1		
18:41	F82298-1	1		
18:45	F82298-1F	1		
---------->	Last reportable sample/prep for job F82298			
18:49	MP20591-MB1	1		
18:54	MP20591-B1	1		
18:58	F82134-2	1		(sample used for QC only; not part of login F82298)
19:02	MA8951-CCV11	1		
19:06	MA8951-CCB11	1		
19:11	MP20591-D1	1		
19:15	MP20591-SD1	5		
19:19	MP20591-PS1	1		
19:23	MP20591-S1	1		
19:28	MP20591-S2	1		
19:32	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:36	ZZZZZZ	1		
19:41	ZZZZZZ	1		
19:45	ZZZZZZ	1		
19:49	ZZZZZZ	1		
19:54	MA8951-CCV12	1		
19:58	MA8951-CCB12	1		
20:02	ZZZZZZ	1		
20:06	ZZZZZZ	1		
20:11	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:19	ZZZZZZ	1		
20:24	ZZZZZZ	1		
20:28	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:41	ZZZZZZ	1		
20:46	MA8951-CCV13	1		
20:50	MA8951-CCB13	1		
20:54	ZZZZZZ	1		
20:58	ZZZZZZ	1		
21:03	MP20593-MB1	1		
21:07	MP20593-B1	1		
21:11	F82349-25	1		(sample used for QC only; not part of login F82298)
21:16	MP20593-D1	1		
21:20	MP20593-SD1	5		
21:24	MP20593-PS1	1		
21:28	MP20593-S1	1		
21:32	MP20593-S2	1		
21:36	MA8951-CCV14	1		
21:40	MA8951-CCB14	1		
21:45	ZZZZZZ	1		
21:49	ZZZZZZ	1		
21:53	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:58	ZZZZZZ	1		
22:02	ZZZZZZ	1		
22:06	ZZZZZZ	1		
22:10	ZZZZZZ	1		
22:15	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:23	ZZZZZZ	1		
22:28	MA8951-CCV15	1		
22:32	MA8951-CCB15	1		
22:36	ZZZZZZ	1		
22:40	ZZZZZZ	1		
22:57	MP20590-MB1	1		
23:02	MP20590-B1	1		
23:06	F82144-11	1		(sample used for QC only; not part of login F82298)
23:10	MP20590-D1	1		
23:15	MP20590-SD1	5		
23:19	MA8951-CCV16	1		
23:23	MA8951-CCB16	1		
23:27	MP20590-PS1	1		
23:31	MP20590-S1	1		
23:36	MP20590-S2	1		
23:40	ZZZZZZ	1		
23:45	ZZZZZZ	1		
23:49	ZZZZZZ	1		
23:53	ZZZZZZ	1		
23:58	ZZZZZZ	1		
00:02	ZZZZZZ	1		
00:06	MA8951-CRIA2	1		
00:11	MA8951-CCV17	1		
00:15	MA8951-CCB17	1		
00:19	MA8951-ICSA2	1		
00:23	MA8951-ICSAB2	1		
00:28	MA8951-CCV18	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:32	MA8951-CCB18	1		
---------->	Last reportable CCB for job F82298			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:42	MA8951-STD1	967	14870	6486	528
09:46	MA8951-STD2	923	14094	6550	455
09:49	MA8951-STD3	897	13711	6676	426
09:53	MA8951-HSTD1	919	13792	6724	433
09:57	MA8951-ICV1	941	14249	6550	463
10:06	MA8951-ICB1	959 R	14635 R	6624 R	529 R
10:10	MA8951-CRIA1	985	14807	6767	523
10:19	MA8951-ICSA1	863	13055	6335	386
10:27	MA8951-ICSAB1	865	13115	6559	388
10:32	MA8951-CCV1	955	14288	6782	469
10:38	MA8951-CCB1	996	15245	6625	546
10:42	ZZZZZZ	928	14316	6513	496
10:46	ZZZZZZ	889	13006	6577	426
10:51	ZZZZZZ	881	14026	6745	467
10:55	ZZZZZZ	884	13415	6925	436
10:59	ZZZZZZ	914	14139	6665	469
11:04	ZZZZZZ	908	14017	6481	462
11:08	ZZZZZZ	928	14142	6707	468
11:12	ZZZZZZ	924	13855	6585	468
11:17	ZZZZZZ	906	13685	6656	471
11:21	ZZZZZZ	900	13227	6471	431
11:26	MA8951-CCV2	964	14479	6802	474
11:29	MA8951-CCB2	987	14732	6683	539
11:34	ZZZZZZ	915	13331	6761	447
11:38	ZZZZZZ	917	13754	6639	464
11:43	ZZZZZZ	936	14687	6688	480
11:47	F81989-15	922	14200	6595	484
11:51	MP20581-D2	913	13942	6482	481
11:55	MP20581-MB2	1004	15294	6959	547
12:00	MP20581-B2	995	14881	6943	507
12:04	MP20582-MB1	1047	15991	7058	564
12:08	MP20582-B1	977	14898	6863	493
12:12	F81989-19	907	13859	6459	457

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:16	MA8951-CCV3	957	14324	6551	466
12:20	MA8951-CCB3	1003	15168	6501	541
12:25	MP20582-D1	914	13949	6498	459
12:29	MP20582-SD1	960	14426	6641	504
12:33	MP20582-S1	916	13888	6525	444
12:37	MP20582-S2	922	13930	6376	446
12:42	ZZZZZZ	937	13967	6531	464
12:46	ZZZZZZ	907	13762	6463	461
12:50	ZZZZZZ	931	14531	6611	473
12:55	ZZZZZZ	942	14253	6560	476
12:59	ZZZZZZ	945	14297	6992	484
13:03	F81989-22	914	13804	6527	455
13:08	MA8951-CCV4	979	14508	6859	479
13:12	MA8951-CCB4	1005	14998	6570	539
13:16	MP20582-D2	914	13869	6467	456
13:20	MP20582-MB2	1019	15491	6942	554
13:25	MP20582-B2	985	14642	6976	500
13:29	MP20588-MB1	1049	15610	6872	564
13:33	MP20588-B1	997	14937	6656	500
13:37	F82402-1	1088	16096	7269	523
13:41	MP20588-D1	1074	16006	7177	528
13:46	MP20588-SD1	1019	15100	6768	533
13:50	MP20588-PS1	1074	15856	7087	509
13:54	MP20588-S1	1040	15482	6949	486
13:58	MA8951-CCV5	1000	14799	6842	483
14:02	MA8951-CCB5	1009	14897	6603	542
14:06	MP20588-S2	1042	15442	6962	489
14:10	ZZZZZZ	1078	15918	7144	517
14:15	ZZZZZZ	1201 !	17430	8256	492
14:19	ZZZZZZ	1152	16962	7801	507
14:23	ZZZZZZ	1132	16726	7614	514
14:27	ZZZZZZ	1157	17169	8017	492
14:31	ZZZZZZ	1208 !	17588	8517 !	445

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:36	ZZZZZZ	1153	16561	7887	492
14:40	ZZZZZZ	1143	16639	7809	482
14:44	ZZZZZZ	1166	17147	8041	471
14:48	MA8951-CCV6	959	14378	6679	469
14:52	MA8951-CCB6	1007	14980	6662	545
14:57	ZZZZZZ	1150	16619	7711	487
15:01	ZZZZZZ	1118	16602	7687	452
15:05	ZZZZZZ	1234 !	18103	8481 !	428
15:09	ZZZZZZ	1080	15446	7434	444
15:14	ZZZZZZ	1109	15856	7762	438
15:27	ZZZZZZ	1498 !	21616 !	10517 !	376
15:32	ZZZZZZ	1156	16602	7787	429
15:36	ZZZZZZ	1199	17605	8143	416
15:41	MA8951-CCV7	989	14613	6757	481
15:45	MA8951-CCB7	1008	14862	6655	545
15:49	MP20589-MB1	1055	15552	6822	566
15:53	MP20589-B1	994	14884	6611	498
15:57	F82402-7	1118	16720	7733	482
16:01	MP20589-D1	1102	16290	7847	430
16:06	MP20589-SD1	1027	15290	6840	520
16:10	MP20589-PS1	1113	16817	7608	470
16:22	ZZZZZZ	1183	17392	7735	535
16:26	ZZZZZZ	1145	16823	7632	490
16:31	MA8951-CCV8	978	14667	6655	479
16:35	MA8951-CCB8	1010	14881	6621	546
16:39	ZZZZZZ	1095	16007	7266	488
16:43	ZZZZZZ	1125	16715	7518	535
16:47	ZZZZZZ	1062	15486	7183	499
16:51	ZZZZZZ	1203 !	17758	7907	516
16:56	ZZZZZZ	1135	16627	7382	509
17:00	ZZZZZZ	1160	17321	7551	528
17:08	ZZZZZZ	1103	15951	7496	491
17:13	ZZZZZZ	1103	16178	7245	520

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:17	ZZZZZZ	1066	16034	6868	540
17:21	MA8951-CCV9	984	14482	6521	479
17:25	MA8951-CCB9	1004	14940	6604	546
17:29	ZZZZZZ	1124	16426	7788	487
17:33	ZZZZZZ	1048	15471	6950	535
17:38	ZZZZZZ	1051	15634	6920	523
17:42	ZZZZZZ	1133	16593	7602	503
17:46	ZZZZZZ	1074	15810	7352	493
17:50	ZZZZZZ	1095	16195	7450	520
17:54	ZZZZZZ	1147	16834	7644	509
17:59	MP20592-MB1	1036	15838	6807	558
18:03	MP20592-B1	976	14815	6535	499
18:07	F82099-1	930	14230	6697	480
18:11	MA8951-CCV10	930	13840	6583	458
18:15	MA8951-CCB10	999	15022	6609	545
18:20	MP20592-D1	934	14343	6636	480
18:24	MP20592-SD1	949	14395	6612	511
18:28	MP20592-PS1	932	14058	6634	478
18:32	MP20592-S1	920	13928	7011	457
18:36	MP20592-S2	921	14062	6328	456
18:41	F82298-1	912	13673	6542	452
18:45	F82298-1F	911	13593	6619	456
18:49	MP20591-MB1	1010	15439	6800	549
18:54	MP20591-B1	964	14713	6647	492
18:58	F82134-2	884	13531	6291	434
19:02	MA8951-CCV11	924	13940	6692	459
19:06	MA8951-CCB11	1003	15171	6754	549
19:11	MP20591-D1	869	13462	6361	426
19:15	MP20591-SD1	918	14058	6450	480
19:19	MP20591-PS1	863	13308	6521	427
19:23	MP20591-S1	879	13352	6512	419
19:28	MP20591-S2	898	13801	6521	425
19:32	ZZZZZZ	935	14401	6688	480

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:36	ZZZZZZ	884	13576	6436	454
19:41	ZZZZZZ	925	14040	7016	486
19:45	ZZZZZZ	919	14094	6496	475
19:49	ZZZZZZ	921	15115	6581	474
19:54	MA8951-CCV12	910	13956	6526	457
19:58	MA8951-CCB12	971	14831	6717	537
20:02	ZZZZZZ	877	13321	6479	438
20:06	ZZZZZZ	936	14497	6664	495
20:11	ZZZZZZ	991	15393	6826	546
20:15	ZZZZZZ	1000	15785	6919	550
20:19	ZZZZZZ	994	15421	6796	546
20:24	ZZZZZZ	996	15456	6914	549
20:28	ZZZZZZ	992	15317	6859	547
20:32	ZZZZZZ	998	15307	6910	551
20:37	ZZZZZZ	807	12430	6214	390
20:41	ZZZZZZ	985	15138	6950	541
20:46	MA8951-CCV13	922	14135	6659	462
20:50	MA8951-CCB13	992	15193	6998	555
20:54	ZZZZZZ	827	12395	6463	397
20:58	ZZZZZZ	893	13704	6609	454
21:03	MP20593-MB1	989	15512	6922	550
21:07	MP20593-B1	940	14536	6753	489
21:11	F82349-25	962	14792	6890	516
21:16	MP20593-D1	957	14706	6954	515
21:20	MP20593-SD1	992	15155	6943	546
21:24	MP20593-PS1	956	14644	6799	503
21:28	MP20593-S1	935	15271	6795	472
21:32	MP20593-S2	931	14118	6868	473
21:36	MA8951-CCV14	914	13792	6647	460
21:40	MA8951-CCB14	992	15173	6981	555
21:45	ZZZZZZ	992	15316	7105	500
21:49	ZZZZZZ	976	15148	6972	512
21:53	ZZZZZZ	965	16042	7179	473

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:58	ZZZZZZ	1089	16558	7959	503
22:02	ZZZZZZ	1013	15450	7377	501
22:06	ZZZZZZ	950	14503	6886	503
22:10	ZZZZZZ	982	15221	6918	529
22:15	ZZZZZZ	1134	17407	8093	503
22:19	ZZZZZZ	965	14736	6971	506
22:23	ZZZZZZ	940	14084	7063	470
22:28	MA8951-CCV15	900	14287	6779	459
22:32	MA8951-CCB15	1000	15406	7080	563
22:36	ZZZZZZ	1141	17603	8267	493
22:40	ZZZZZZ	972	15167	7030	511
22:57	MP20590-MB1	973	15017	6752	547
23:02	MP20590-B1	945	14267	6642	494
23:06	F82144-11	1182	17935	9027 !	399
23:10	MP20590-D1	1109	16852	8348 !	414
23:15	MP20590-SD1	999	15387	7444	479
23:19	MA8951-CCV16	898	13908	6795	459
23:23	MA8951-CCB16	971	14949	6858	549
23:27	MP20590-PS1	1171	17846	8866 !	396
23:31	MP20590-S1	1110	17156	8353 !	400
23:36	MP20590-S2	1130	17180	8558 !	402
23:40	ZZZZZZ	1230 !	18737 !	9399 !	403
23:45	ZZZZZZ	951	14697	7389	407
23:49	ZZZZZZ	959	14858	7474	421
23:53	ZZZZZZ	1063	16429	8216	379
23:58	ZZZZZZ	1007	15895	7793	376
00:02	ZZZZZZ	1199	18409 !	8889 !	446
00:06	MA8951-CRIA2	944	14639	6740	522
00:11	MA8951-CCV17	887	13857	6705	454
00:15	MA8951-CCB17	960	15092	7015	552
00:19	MA8951-ICSA2	819	12612	6547	387
00:23	MA8951-ICSAB2	828	12829	6439	385
00:28	MA8951-CCV18	905	14332	6731	461

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8951
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:32	MA8951-CCB18	972	15201	6945	554

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8951 Units: ug/l

Time: / Sample ID:			10:06 ICB1		10:38 CCB1		11:29 CCB2		12:20 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	1.5	<200	9.7	<200	9.5	<200	9.1	<200
Antimony	6.0	1	-0.40	<6.0	-0.40	<6.0	1.2	<6.0	0.90	<6.0
Arsenic	10	1	-0.60	<10	-0.80	<10	-0.10	<10	0.60	<10
Barium	200	1	0.0	<200	0.10	<200	0.40	<200	0.40	<200
Beryllium	4.0	.1	0.0	<4.0	0.20	<4.0	0.50	<4.0	0.40	<4.0
Cadmium	5.0	.1	0.20	<5.0	0.10	<5.0	0.30	<5.0	0.20	<5.0
Calcium	1000	50	-3.5	<1000	7.2	<1000	12.1	<1000	13.8	<1000
Chromium	10	1	0.0	<10	0.60	<10	0.40	<10	0.60	<10
Cobalt	50	1	0.10	<50	0.10	<50	0.40	<50	0.30	<50
Copper	25	1	0.40	<25	0.20	<25	0.70	<25	0.50	<25
Iron	300	34	1.6	<300	5.3	<300	10.1	<300	8.6	<300
Lead	5.0	1	-0.20	<5.0	0.40	<5.0	-1.3	<5.0	-0.20	<5.0
Magnesium	5000	50	36.1	<5000	32.2	<5000	3.7	<5000	29.8	<5000
Manganese	15	1	0.0	<15	0.10	<15	0.40	<15	0.30	<15
Molybdenum	50	1								
Nickel	40	1	0.0	<40	0.20	<40	0.20	<40	0.50	<40
Potassium	10000	50	1.2	<10000	-9.6	<10000	9.9	<10000	-5.7	<10000
Selenium	10	2	-1.8	<10	0.90	<10	-1.4	<10	-3.3	<10
Silver	10	1	-0.80	<10	-0.30	<10	-0.30	<10	-0.30	<10
Sodium	10000	750	0.10	<10000	4.1	<10000	47.1	<10000	21.4	<10000
Strontium	10	1								
Thallium	10	1	0.70	<10	1.7	<10	1.5	<10	3.4	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.80	<50	0.80	<50	0.30	<50
Zinc	20	1	-0.10	<20	0.20	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8951 Units: ug/l

Time:			13:12		14:02		14:52		15:45	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	8.8	<200	8.8	<200	10.2	<200	15.8	<200
Antimony	6.0	1	1.7	<6.0	1.5	<6.0	1.8	<6.0	0.90	<6.0
Arsenic	10	1	1.3	<10	-1.0	<10	0.70	<10	1.0	<10
Barium	200	1	0.20	<200	0.30	<200	0.20	<200	0.30	<200
Beryllium	4.0	.1	0.30	<4.0	0.40	<4.0	0.30	<4.0	0.40	<4.0
Cadmium	5.0	.1	0.20	<5.0	0.30	<5.0	0.30	<5.0	0.20	<5.0
Calcium	1000	50	10.1	<1000	5.1	<1000	6.9	<1000	6.6	<1000
Chromium	10	1	-0.10	<10	0.40	<10	0.60	<10	0.20	<10
Cobalt	50	1	0.40	<50	0.20	<50	0.30	<50	0.20	<50
Copper	25	1	0.20	<25	0.30	<25	0.20	<25	0.20	<25
Iron	300	34	10.0	<300	7.9	<300	10.5	<300	21.0	<300
Lead	5.0	1	-0.70	<5.0	-0.10	<5.0	0.0	<5.0	0.0	<5.0
Magnesium	5000	50	8.9	<5000	-7.0	<5000	18.4	<5000	12.3	<5000
Manganese	15	1	0.20	<15	0.30	<15	0.30	<15	0.50	<15
Molybdenum	50	1								
Nickel	40	1	0.0	<40	0.20	<40	0.40	<40	0.50	<40
Potassium	10000	50	11.0	<10000	-6.6	<10000	-5.9	<10000	3.1	<10000
Selenium	10	2	-0.10	<10	1.8	<10	-1.9	<10	-1.3	<10
Silver	10	1	-1.2	<10	-0.80	<10	-0.40	<10	-0.70	<10
Sodium	10000	750	25.4	<10000	17.7	<10000	6.9	<10000	2.3	<10000
Strontium	10	1								
Thallium	10	1	3.0	<10	1.8	<10	1.8	<10	1.0	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.40	<50	0.50	<50	0.70	<50	0.50	<50
Zinc	20	1	0.40	<20	0.50	<20	0.50	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8951 Units: ug/l

Time:			16:35		17:25		18:15		19:06	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	12.4	<200	8.0	<200	5.9	<200	1.3	<200
Antimony	6.0	1	-1.1	<6.0	0.20	<6.0	2.0	<6.0	0.70	<6.0
Arsenic	10	1	0.70	<10	0.0	<10	0.0	<10	-1.0	<10
Barium	200	1	0.40	<200	0.40	<200	0.30	<200	0.30	<200
Beryllium	4.0	.1	0.40	<4.0	0.40	<4.0	0.30	<4.0	0.20	<4.0
Cadmium	5.0	.1	0.20	<5.0	0.30	<5.0	0.20	<5.0	0.30	<5.0
Calcium	1000	50	6.9	<1000	9.6	<1000	7.0	<1000	7.7	<1000
Chromium	10	1	0.40	<10	0.50	<10	0.50	<10	0.10	<10
Cobalt	50	1	0.30	<50	0.30	<50	0.20	<50	0.30	<50
Copper	25	1	0.40	<25	0.60	<25	0.40	<25	0.30	<25
Iron	300	34	12.3	<300	10.3	<300	8.8	<300	8.9	<300
Lead	5.0	1	-1.1	<5.0	-0.30	<5.0	-1.0	<5.0	-0.40	<5.0
Magnesium	5000	50	46.0	<5000	18.9	<5000	17.8	<5000	10.5	<5000
Manganese	15	1	0.50	<15	0.50	<15	0.40	<15	0.40	<15
Molybdenum	50	1								
Nickel	40	1	0.10	<40	0.70	<40	0.0	<40	0.20	<40
Potassium	10000	50	-5.2	<10000	-1.6	<10000	-29	<10000	6.4	<10000
Selenium	10	2	-1.1	<10	-1.0	<10	-0.70	<10	0.0	<10
Silver	10	1	-0.40	<10	-0.30	<10	-0.60	<10	-0.50	<10
Sodium	10000	750	2.0	<10000	4.7	<10000	4.0	<10000	22.2	<10000
Strontium	10	1								
Thallium	10	1	-0.20	<10	0.80	<10	2.0	<10	-0.50	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.40	<50	0.40	<50	0.50	<50	0.50	<50
Zinc	20	1	0.50	<20	0.40	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8951 Units: ug/l

Time:			19:58		20:50		21:40		22:32	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	6.3	<200	4.6	<200	6.9	<200	1.8	<200
Antimony	6.0	1	1.5	<6.0	-0.70	<6.0	1.3	<6.0	1.0	<6.0
Arsenic	10	1	-0.90	<10	-0.60	<10	-0.20	<10	0.90	<10
Barium	200	1	0.40	<200	0.30	<200	0.30	<200	0.30	<200
Beryllium	4.0	.1	0.30	<4.0	0.30	<4.0	0.30	<4.0	0.30	<4.0
Cadmium	5.0	.1	0.30	<5.0	0.30	<5.0	0.20	<5.0	0.30	<5.0
Calcium	1000	50	12.6	<1000	14.9	<1000	10.3	<1000	5.9	<1000
Chromium	10	1	0.40	<10	0.40	<10	0.0	<10	0.10	<10
Cobalt	50	1	0.30	<50	0.30	<50	0.30	<50	0.10	<50
Copper	25	1	0.70	<25	0.90	<25	0.50	<25	0.70	<25
Iron	300	34	4.8	<300	4.0	<300	7.9	<300	5.9	<300
Lead	5.0	1	-1.1	<5.0	-0.50	<5.0	-0.50	<5.0	-0.60	<5.0
Magnesium	5000	50	25.0	<5000	26.3	<5000	6.1	<5000	-5.2	<5000
Manganese	15	1	0.40	<15	0.30	<15	0.20	<15	0.30	<15
Molybdenum	50	1								
Nickel	40	1	0.30	<40	0.30	<40	0.20	<40	0.50	<40
Potassium	10000	50	-8.1	<10000	5.7	<10000	-3.9	<10000	-8.8	<10000
Selenium	10	2	-1.6	<10	-1.7	<10	0.0	<10	1.4	<10
Silver	10	1	-0.70	<10	-0.70	<10	-0.70	<10	-1.0	<10
Sodium	10000	750	22.8	<10000	19.5	<10000	23.8	<10000	24.9	<10000
Strontium	10	1								
Thallium	10	1	0.90	<10	2.3	<10	2.5	<10	3.1	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.20	<50	0.60	<50	0.20	<50	0.30	<50
Zinc	20	1	0.30	<20	0.30	<20	0.20	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8951 Units: ug/l

Time:			23:23		00:15		00:32	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	20	14.4	<200	5.4	<200	14.0	<200
Antimony	6.0	1	0.70	<6.0	-0.50	<6.0	1.4	<6.0
Arsenic	10	1	-0.40	<10	-1.0	<10	-1.1	<10
Barium	200	1	0.30	<200	0.20	<200	0.30	<200
Beryllium	4.0	.1	0.30	<4.0	0.20	<4.0	0.30	<4.0
Cadmium	5.0	.1	0.30	<5.0	0.10	<5.0	0.20	<5.0
Calcium	1000	50	11.4	<1000	8.4	<1000	13.0	<1000
Chromium	10	1	0.20	<10	-0.10	<10	0.60	<10
Cobalt	50	1	0.20	<50	0.30	<50	0.20	<50
Copper	25	1	0.90	<25	0.70	<25	0.90	<25
Iron	300	34	10.5	<300	5.1	<300	10.0	<300
Lead	5.0	1	-0.30	<5.0	-0.20	<5.0	-0.20	<5.0
Magnesium	5000	50	10.9	<5000	9.4	<5000	7.3	<5000
Manganese	15	1	0.30	<15	0.20	<15	0.20	<15
Molybdenum	50	1						
Nickel	40	1	0.40	<40	0.20	<40	0.30	<40
Potassium	10000	50	-5.0	<10000	-6.1	<10000	-6.5	<10000
Selenium	10	2	0.10	<10	-2.0	<10	-1.7	<10
Silver	10	1	-0.50	<10	-0.50	<10	-0.60	<10
Sodium	10000	750	14.5	<10000	15.5	<10000	13.4	<10000
Strontium	10	1						
Thallium	10	1	1.5	<10	0.90	<10	1.1	<10
Tin	50	1						
Titanium	10	1.1						
Vanadium	50	1	0.50	<50	0.50	<50	0.20	<50
Zinc	20	1	0.40	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		09:57			10:32			11:26	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	39800	99.5	40000	39600	99.0
Antimony	2000	1970	98.5	2000	1980	99.0	2000	1960	98.0
Arsenic	2000	1960	98.0	2000	1970	98.5	2000	1940	97.0
Barium	2000	2070	103.5	2000	2020	101.0	2000	2000	100.0
Beryllium	2000	2040	102.0	2000	2020	101.0	2000	1990	99.5
Cadmium	2000	2060	103.0	2000	2030	101.5	2000	1990	99.5
Calcium	40000	40500	101.3	40000	40300	100.8	40000	39900	99.8
Chromium	2000	2060	103.0	2000	2060	103.0	2000	2030	101.5
Cobalt	2000	2050	102.5	2000	2030	101.5	2000	2000	100.0
Copper	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Iron	40000	39900	99.8	40000	40700	101.8	40000	40300	100.8
Lead	2000	2030	101.5	2000	2000	100.0	2000	1970	98.5
Magnesium	40000	38700	96.8	40000	39500	98.8	40000	39500	98.8
Manganese	2000	2070	103.5	2000	2060	103.0	2000	2030	101.5
Molybdenum									
Nickel	2000	2050	102.5	2000	2040	102.0	2000	2000	100.0
Potassium	40000	39500	98.8	40000	40000	100.0	40000	39900	99.8
Selenium	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Silver	250	254	101.6	250	254	101.6	250	253	101.2
Sodium	40000	40000	100.0	40000	40100	100.3	40000	39800	99.5
Strontium									
Thallium	2000	2120	106.0	2000	2030	101.5	2000	2010	100.5
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	2050	102.5	2000	2000	100.0
Zinc	2000	2030	101.5	2000	2050	102.5	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		12:16			13:08			13:58	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	39400	98.5	40000	39500	98.8
Antimony	2000	1970	98.5	2000	1910	95.5	2000	1880	94.0
Arsenic	2000	1960	98.0	2000	1900	95.0	2000	1880	94.0
Barium	2000	2110	105.5	2000	2010	100.5	2000	2010	100.5
Beryllium	2000	2050	102.5	2000	1960	98.0	2000	1960	98.0
Cadmium	2000	2020	101.0	2000	1940	97.0	2000	1930	96.5
Calcium	40000	41000	102.5	40000	38900	97.3	40000	39400	98.5
Chromium	2000	2060	103.0	2000	2000	100.0	2000	2000	100.0
Cobalt	2000	2040	102.0	2000	1970	98.5	2000	1950	97.5
Copper	2000	2030	101.5	2000	1990	99.5	2000	1960	98.0
Iron	40000	41900	104.8	40000	39800	99.5	40000	40100	100.3
Lead	2000	2010	100.5	2000	1920	96.0	2000	1930	96.5
Magnesium	40000	41700	104.3	40000	39400	98.5	40000	40000	100.0
Manganese	2000	2050	102.5	2000	1980	99.0	2000	1980	99.0
Molybdenum									
Nickel	2000	2020	101.0	2000	1950	97.5	2000	1930	96.5
Potassium	40000	40900	102.3	40000	39300	98.3	40000	39100	97.8
Selenium	2000	1990	99.5	2000	1930	96.5	2000	1910	95.5
Silver	250	258	103.2	250	250	100.0	250	249	99.6
Sodium	40000	41000	102.5	40000	39400	98.5	40000	39100	97.8
Strontium									
Thallium	2000	2040	102.0	2000	1950	97.5	2000	1950	97.5
Tin									
Titanium									
Vanadium	2000	2020	101.0	2000	1960	98.0	2000	1950	97.5
Zinc	2000	2030	101.5	2000	1940	97.0	2000	1930	96.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		14:48			15:41			16:31	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	40100	100.3	40000	40600	101.5
Antimony	2000	1980	99.0	2000	1910	95.5	2000	1940	97.0
Arsenic	2000	1960	98.0	2000	1900	95.0	2000	1930	96.5
Barium	2000	2070	103.5	2000	2050	102.5	2000	2090	104.5
Beryllium	2000	2020	101.0	2000	1950	97.5	2000	1970	98.5
Cadmium	2000	2010	100.5	2000	1940	97.0	2000	1970	98.5
Calcium	40000	40600	101.5	40000	39300	98.3	40000	39600	99.0
Chromium	2000	2070	103.5	2000	2030	101.5	2000	2040	102.0
Cobalt	2000	2030	101.5	2000	1990	99.5	2000	2010	100.5
Copper	2000	2030	101.5	2000	2020	101.0	2000	2010	100.5
Iron	40000	41200	103.0	40000	40000	100.0	40000	40400	101.0
Lead	2000	1990	99.5	2000	1930	96.5	2000	1950	97.5
Magnesium	40000	40700	101.8	40000	39900	99.8	40000	40100	100.3
Manganese	2000	2050	102.5	2000	1990	99.5	2000	2020	101.0
Molybdenum									
Nickel	2000	2020	101.0	2000	1950	97.5	2000	1980	99.0
Potassium	40000	40700	101.8	40000	40200	100.5	40000	40900	102.3
Selenium	2000	2000	100.0	2000	1940	97.0	2000	1960	98.0
Silver	250	255	102.0	250	253	101.2	250	256	102.4
Sodium	40000	40900	102.3	40000	40400	101.0	40000	41000	102.5
Strontium									
Thallium	2000	2020	101.0	2000	1970	98.5	2000	1980	99.0
Tin									
Titanium									
Vanadium	2000	2040	102.0	2000	1990	99.5	2000	1990	99.5
Zinc	2000	2010	100.5	2000	1930	96.5	2000	1960	98.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		17:21			18:11			19:02	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41400	103.5	40000	41400	103.5	40000	40100	100.3
Antimony	2000	1920	96.0	2000	2030	101.5	2000	2040	102.0
Arsenic	2000	1910	95.5	2000	2030	101.5	2000	2010	100.5
Barium	2000	2150	107.5	2000	2120	106.0	2000	2070	103.5
Beryllium	2000	2000	100.0	2000	2000	100.0	2000	1940	97.0
Cadmium	2000	1950	97.5	2000	2040	102.0	2000	2040	102.0
Calcium	40000	40200	100.5	40000	39800	99.5	40000	38400	96.0
Chromium	2000	2060	103.0	2000	2100	105.0	2000	2070	103.5
Cobalt	2000	1990	99.5	2000	2080	104.0	2000	2070	103.5
Copper	2000	2040	102.0	2000	2110	105.5	2000	2100	105.0
Iron	40000	41100	102.8	40000	40600	101.5	40000	39400	98.5
Lead	2000	1940	97.0	2000	2010	100.5	2000	1990	99.5
Magnesium	40000	40900	102.3	40000	39600	99.0	40000	38500	96.3
Manganese	2000	2040	102.0	2000	2070	103.5	2000	2050	102.5
Molybdenum									
Nickel	2000	1960	98.0	2000	2070	103.5	2000	2060	103.0
Potassium	40000	41600	104.0	40000	42600	106.5	40000	41400	103.5
Selenium	2000	1930	96.5	2000	2050	102.5	2000	2050	102.5
Silver	250	258	103.2	250	263	105.2	250	259	103.6
Sodium	40000	41800	104.5	40000	43000	107.5	40000	41600	104.0
Strontium									
Thallium	2000	1970	98.5	2000	2050	102.5	2000	2050	102.5
Tin									
Titanium									
Vanadium	2000	2010	100.5	2000	2090	104.5	2000	2060	103.0
Zinc	2000	1940	97.0	2000	2020	101.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		19:54			20:46			21:36	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	42100	105.3	40000	41200	103.0	40000	41200	103.0
Antimony	2000	2090	104.5	2000	2050	102.5	2000	2070	103.5
Arsenic	2000	2060	103.0	2000	2030	101.5	2000	2050	102.5
Barium	2000	2180	109.0	2000	2140	107.0	2000	2110	105.5
Beryllium	2000	2020	101.0	2000	1980	99.0	2000	1990	99.5
Cadmium	2000	2060	103.0	2000	2030	101.5	2000	2040	102.0
Calcium	40000	39700	99.3	40000	38700	96.8	40000	39200	98.0
Chromium	2000	2070	103.5	2000	2030	101.5	2000	2080	104.0
Cobalt	2000	2100	105.0	2000	2060	103.0	2000	2070	103.5
Copper	2000	2130	106.5	2000	2100	105.0	2000	2130	106.5
Iron	40000	40800	102.0	40000	39900	99.8	40000	40100	100.3
Lead	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0
Magnesium	40000	39700	99.3	40000	38700	96.8	40000	38600	96.5
Manganese	2000	2060	103.0	2000	2030	101.5	2000	2070	103.5
Molybdenum									
Nickel	2000	2090	104.5	2000	2050	102.5	2000	2080	104.0
Potassium	40000	43600	109.0	40000	43200	108.0	40000	43700	109.3
Selenium	2000	2080	104.0	2000	2050	102.5	2000	2080	104.0
Silver	250	262	104.8	250	257	102.8	250	259	103.6
Sodium	40000	43800	109.5	40000	43400	108.5	40000	43800	109.5
Strontium									
Thallium	2000	2050	102.5	2000	2030	101.5	2000	2040	102.0
Tin									
Titanium									
Vanadium	2000	2070	103.5	2000	2040	102.0	2000	2110	105.5
Zinc	2000	2030	101.5	2000	1980	99.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		22:28			23:19			00:11	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40000	100.0	40000	40800	102.0
Antimony	2000	2110	105.5	2000	2120	106.0	2000	2160	108.0
Arsenic	2000	2090	104.5	2000	2090	104.5	2000	2120	106.0
Barium	2000	2070	103.5	2000	2060	103.0	2000	2110	105.5
Beryllium	2000	1960	98.0	2000	1950	97.5	2000	1970	98.5
Cadmium	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Calcium	40000	38300	95.8	40000	38000	95.0	40000	38300	95.8
Chromium	2000	1980	99.0	2000	2040	102.0	2000	2050	102.5
Cobalt	2000	2090	104.5	2000	2080	104.0	2000	2110	105.5
Copper	2000	2030	101.5	2000	2090	104.5	2000	2130	106.5
Iron	40000	39000	97.5	40000	38700	96.8	40000	39200	98.0
Lead	2000	2000	100.0	2000	1970	98.5	2000	2000	100.0
Magnesium	40000	37100	92.8	40000	36600	91.5	40000	37100	92.8
Manganese	2000	1980	99.0	2000	2050	102.5	2000	2060	103.0
Molybdenum									
Nickel	2000	2120	106.0	2000	2110	105.5	2000	2140	107.0
Potassium	40000	43300	108.3	40000	43600	109.0	40000	44500	111.3*(a
Selenium	2000	2110	105.5	2000	2110	105.5	2000	2140	107.0
Silver	250	249	99.6	250	256	102.4	250	256	102.4
Sodium	40000	43500	108.8	40000	43700	109.3	40000	44700	111.8*(b
Strontium									
Thallium	2000	2060	103.0	2000	2060	103.0	2000	2080	104.0
Tin									
Titanium									
Vanadium	2000	2020	101.0	2000	2090	104.5	2000	2100	105.0
Zinc	2000	2040	102.0	2000	2030	101.5	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8951 Units: ug/l

Time:		00:28	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Aluminum	40000	40000	100.0
Antimony	2000	2100	105.0
Arsenic	2000	2060	103.0
Barium	2000	2090	104.5
Beryllium	2000	1930	96.5
Cadmium	2000	2040	102.0
Calcium	40000	37400	93.5
Chromium	2000	1970	98.5
Cobalt	2000	2050	102.5
Copper	2000	2050	102.5
Iron	40000	38400	96.0
Lead	2000	1970	98.5
Magnesium	40000	36700	91.8
Manganese	2000	2000	100.0
Molybdenum			
Nickel	2000	2090	104.5
Potassium	40000	43700	109.3
Selenium	2000	2090	104.5
Silver	250	253	101.2
Sodium	40000	43600	109.0
Strontium			
Thallium	2000	2040	102.0
Tin			
Titanium			
Vanadium	2000	2010	100.5
Zinc	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA8951 Units: ug/l

Time:		09:53	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	77800	97.3
Antimony	4000	3900	97.5
Arsenic	4000	3900	97.5
Barium	4000	3800	95.0
Beryllium	4000	3890	97.3
Cadmium	4000	3900	97.5
Calcium	80000	78700	98.4
Chromium	4000	3950	98.8
Cobalt	4000	3890	97.3
Copper	4000	3940	98.5
Iron	80000	77200	96.5
Lead	4000	3980	99.5
Magnesium	80000	78700	98.4
Manganese	4000	3940	98.5
Molybdenum			
Nickel	4000	3890	97.3
Potassium	80000	78000	97.5
Selenium	4000	3890	97.3
Silver	500	490	98.0
Sodium	80000	77600	97.0
Strontium			
Thallium	4000	3940	98.5
Tin			
Titanium			
Vanadium	4000	3970	99.3
Zinc	4000	3930	98.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA8951 Units: ug/l

Time:			10:10		00:06	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	195	97.5	209	104.5
Antimony	10	5.0	5.9	118.0	5.0	100.0
Arsenic	20	10	9.2	92.0	10.3	103.0
Barium	400	200	205	102.5	209	104.5
Beryllium	10	5.0	5.0	100.0	4.8	96.0
Cadmium	10	5.0	5.2	104.0	5.2	104.0
Calcium	2000	1000	999	99.9	963	96.3
Chromium	20	10	10.5	105.0	10.5	105.0
Cobalt	100	50	51.8	103.6	53.1	106.2
Copper	50	25	25.1	100.4	27.2	108.8
Iron	600	300	313	104.3	309	103.0
Lead	10	5.0	4.9	98.0	2.5	50.0*(a)
Magnesium	10000	5000	4790	95.8	4470	89.4
Manganese	30	15	15.9	106.0	16.1	107.3
Molybdenum	100	50				
Nickel	80	40	41.8	104.5	43.3	108.3
Potassium	20000	10000	9890	98.9	10700	107.0
Selenium	20	10	8.3	83.0	9.5	95.0
Silver	20	10	8.3	83.0	8.9	89.0
Sodium	20000	10000	9800	98.0	10700	107.0
Strontium	20	10				
Thallium	20	10	10.2	102.0	10.4	104.0
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	50.5	101.0	51.7	103.4
Zinc	40	20	20.7	103.5	20.8	104.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051711M1.ICP Date Analyzed: 05/17/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA8951 Units: ug/l

Time:			10:19		10:27		00:19		00:23	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	481000	96.2	469000	93.8	458000	91.6	467000	93.4
Antimony		1000	0.0		967	96.7	0.40		999	99.9
Arsenic		1000	0.30		968	96.8	1.5		1010	101.0
Barium		500	0.30		495	99.0	0.30		498	99.6
Beryllium		500	0.0		470	94.0	0.0		454	90.8
Cadmium		1000	0.10		906	90.6	4.6		920	92.0
Calcium	500000	500000	461000	92.2	439000	87.8	412000	82.4	421000	84.2
Chromium		500	0.30		453	90.6	0.60		451	90.2
Cobalt		500	-0.10		444	88.8	0.10		449	89.8
Copper		500	0.40		484	96.8	0.50		499	99.8
Iron	200000	200000	180000	90.0	174000	87.0	161000	80.5	164000	82.0
Lead		1000	-0.10		954	95.4	0.50		944	94.4
Magnesium	500000	500000	501000	100.2	474000	94.8	428000	85.6	435000	87.0
Manganese		500	-0.10		461	92.2	0.0		465	93.0
Molybdenum		1000	-0.40		921	92.1	-0.40		936	93.6
Nickel		1000	-0.10		891	89.1	-0.50		913	91.3
Potassium			-6.1		-23		5.8		20.7	
Selenium		1000	0.0		945	94.5	2.2		980	98.0
Silver		1000	0.10		1060	106.0	-0.30		1080	108.0
Sodium			56.1		60.7		80.2		85.3	
Strontium		1000	0.40		0.40	0.0*	0.90		0.80	0.0*
Thallium		1000	0.0		917	91.7	1.8		920	92.0
Tin		1000	4.1		835	83.5	3.7		843	84.3
Titanium		1000	-2.2		-1.6	0.0*	-2.2		-1.6	0.0*
Vanadium		500	0.30		459	91.8	0.20		473	94.6
Zinc		1000	-1.9		855	85.5	-1.9		857	85.7

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:33	MA8952-STD1	1		STDA
08:37	MA8952-STD2	1		STDB
08:40	MA8952-STD3	1		STDC
08:44	MA8952-HSTD1	1		
08:49	MA8952-ICV1	1		
08:57	MA8952-ICB1	1		
09:19	MA8952-ICB2	1		
09:23	MA8952-CRIA1	1		
09:31	MA8952-ICSA1	1		
09:38	MA8952-ICSAB1	1		
09:45	MA8952-CCV1	1		
09:50	MA8952-CCB1	1		
09:54	MA8952-CCB2	1		
10:02	ZZZZZZ	2		
10:06	ZZZZZZ	2		
10:10	MP20589-S1	2		
10:14	MP20589-S2	2		
10:18	ZZZZZZ	2		
10:23	F82298-1	5		
10:27	F82298-1F	5		
---------->	Last reportable sample/prep for job F82298			
10:31	F82144-11	5		(sample used for QC only; not part of login F82298)
10:35	MP20590-D1	5		
10:39	MP20590-S1	5		
10:44	MA8952-CCV2	1		
10:47	MA8952-CCB3	1		
---------->	Last reportable CCB for job F82298			
10:52	MP20590-S2	5		
10:56	MP20590-PS1	5		
11:00	MP20590-SD1	25		
11:04	ZZZZZZ	5		
11:08	ZZZZZZ	2		
11:13	ZZZZZZ	2		
11:17	ZZZZZZ	5		
11:21	F82134-2	4		(sample used for QC only; not part of login F82298)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:26	MP20591-D1	4		
11:30	MP20591-S1	4		
11:34	MA8952-CCV3	1		
11:38	MA8952-CCB4	1		
11:42	MP20591-S2	4		
11:46	MP20591-PS1	4		
11:51	MP20591-SD1	20		
11:55	ZZZZZZ	4		
11:59	ZZZZZZ	4		
12:03	ZZZZZZ	4		
12:12	ZZZZZZ	5		
12:16	MP20595-MB1	1		
12:20	MP20595-B1	1		
12:25	MA8952-CCV4	1		
12:28	MA8952-CCB5	1		
12:33	F81991-1R	1		(sample used for QC only; not part of login F82298)
12:37	MP20595-D1	1		
12:42	MP20595-SD1	5		
12:46	MP20595-S1	1		
12:50	MP20595-S2	1		
12:54	ZZZZZZ	1		
12:59	F82320-1	1		(sample used for QC only; not part of login F82298)
13:03	ZZZZZZ	1		
13:08	MP20595-D2	1		
13:12	MP20595-MB2	1		
13:17	MA8952-CCV5	1		
13:21	MA8952-CCB6	1		
13:25	MP20595-B2	1		
13:29	MP20594-MB1	1		
13:34	MP20594-B1	1		
13:38	F82291-1	1		(sample used for QC only; not part of login F82298)
13:42	MP20594-D1	1		
13:46	MP20594-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:51	MP20594-S1	1		
13:55	MP20594-S2	1		
13:59	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:07	MA8952-CCV6	1		
14:11	MA8952-CCB7	1		
14:27	MA8952-CCV7	1		
14:34	MA8952-CCB8	1		
14:38	ZZZZZZ	1		
14:43	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:51	MP20594-MB2	1		
14:56	MP20594-B2	1		
15:21	MA8952-CCV8	1		
15:25	MA8952-CCB9	1		
15:55	MP20596-MB1	1		
15:59	MP20596-B1	1		
16:03	F82223-1	1		(sample used for QC only; not part of login F82298)
16:08	MP20596-D1	1		
16:12	MA8952-CCV9	1		
16:16	MA8952-CCB10	1		
16:32	MA8952-CCV10	1		
16:38	MA8952-CCB11	1		
16:41	MP20596-SD1	5		
16:46	MP20596-PS1	1		
16:50	MP20596-S1	1		
16:54	MP20596-S2	1		
16:59	ZZZZZZ	1		
17:03	ZZZZZZ	1		
17:07	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:16	ZZZZZZ	1		
17:21	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:25	MA8952-CCV11	1		
17:29	MA8952-CCB12	1		
17:33	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:46	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:55	ZZZZZZ	1		
17:59	ZZZZZZ	1		
18:03	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:17	MA8952-CCV12	1		
18:21	MA8952-CCB13	1		
18:25	ZZZZZZ	1		
18:29	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:38	MP20596-MB2A	1		
18:42	MP20600-MB1	1		
18:47	MP20600-B1	1		
18:51	F82470-25	1		(sample used for QC only; not part of login F82298)
18:55	MP20600-D1	1		
18:59	MP20600-SD1	5		
19:03	MP20600-PS1	1		
19:08	MA8952-CCV13	1		
19:12	MA8952-CCB14	1		
19:16	MP20600-S1	1		
19:20	MP20600-S2	1		
19:24	MP20599-MB1	1		
19:29	MP20599-B1	1		
19:33	F82409-1	1		(sample used for QC only; not part of login F82298)
19:37	MP20599-D1	1		
19:41	MP20599-SD1	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:46	MP20599-PS1	1		
19:50	MP20599-S1	1		
19:54	MP20599-S2	1		
19:58	MA8952-CCV14	1		
20:02	MA8952-CCB15	1		
20:06	ZZZZZZ	1		
20:11	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:20	MP20599-MB2	1		
20:24	ZZZZZZ	1		
20:28	ZZZZZZ	1		
20:33	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:41	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:50	MA8952-CCV15	1		
20:54	MA8952-CCB16	1		
20:58	ZZZZZZ	1		
21:03	ZZZZZZ	1		
21:07	ZZZZZZ	1		
21:12	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:20	ZZZZZZ	1		
21:25	ZZZZZZ	1		
21:29	ZZZZZZ	1		
21:33	ZZZZZZ	1		
21:42	MA8952-CCV16	1		
21:46	MA8952-CCB17	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:33	MA8952-STD1	912	14404	6082	502
08:37	MA8952-STD2	903	14121	6054	458
08:40	MA8952-STD3	876	14172	6000	427
08:44	MA8952-HSTD1	866	14007	6018	425
08:49	MA8952-ICV1	889	14238	6102	456
08:57	MA8952-ICB1	930 R	14615 R	6049 R	510 R
09:19	MA8952-ICB2	904	14422	6124	504
09:23	MA8952-CRIA1	923	14440	6177	504
09:31	MA8952-ICSA1	827	13087	5867	388
09:38	MA8952-ICSAB1	813	12868	5950	381
09:45	MA8952-CCV1	893	13895	6165	462
09:50	MA8952-CCB1	923	14502	6095	512
09:54	MA8952-CCB2	999999 !	14381	6123	999999 !
10:02	ZZZZZZ	1025	16053	7149	441
10:06	ZZZZZZ	1045	16555	7178	426
10:10	MP20589-S1	1002	16049	6891	466
10:14	MP20589-S2	986	15700	6708	479
10:18	ZZZZZZ	1050	16477	7111	518
10:23	F82298-1	884	13902	6183	486
10:27	F82298-1F	890	14072	6191	490
10:31	F82144-11	961	15551	6685	469
10:35	MP20590-D1	946	15258	6544	480
10:39	MP20590-S1	941	15026	6626	474
10:44	MA8952-CCV2	868	13947	6254	455
10:47	MA8952-CCB3	906	14460	6237	514
10:52	MP20590-S2	952	15200	6609	473
10:56	MP20590-PS1	956	15517	6666	468
11:00	MP20590-SD1	916	14601	6324	499
11:04	ZZZZZZ	961	15416	6873	472
11:08	ZZZZZZ	970	15458	6998	420
11:13	ZZZZZZ	924	15202	6711	415
11:17	ZZZZZZ	964	15565	6780	492
11:21	F82134-2	836	13797	6187	464

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:26	MP20591-D1	844	13638	6210	468
11:30	MP20591-S1	860	13977	6146	466
11:34	MA8952-CCV3	867	14258	6197	456
11:38	MA8952-CCB4	907	14555	6225	518
11:42	MP20591-S2	845	13740	6180	460
11:46	MP20591-PS1	836	13718	6207	464
11:51	MP20591-SD1	885	14333	6276	504
11:55	ZZZZZZ	852	14046	6112	471
11:59	ZZZZZZ	800	13191	6024	433
12:03	ZZZZZZ	968	15596	6791	505
12:12	ZZZZZZ	1001	15971	7121	486
12:16	MP20595-MB1	932	15718	6353	530
12:20	MP20595-B1	884	14599	6266	483
12:25	MA8952-CCV4	863	14226	6240	455
12:28	MA8952-CCB5	893	14567	6316	515
12:33	F81991-1R	852	13501	6317	472
12:37	MP20595-D1	847	14301	6291	472
12:42	MP20595-SD1	849	14495	6271	495
12:46	MP20595-S1	796	13650	6267	437
12:50	MP20595-S2	782	13465	6280	434
12:54	ZZZZZZ	795	13827	6341	455
12:59	F82320-1	792	13830	6253	454
13:03	ZZZZZZ	756	13442	6220	436
13:08	MP20595-D2	764	13559	6270	443
13:12	MP20595-MB2	783	13591	6357	455
13:17	MA8952-CCV5	819	14160	6326	449
13:21	MA8952-CCB6	862	14967	6317	514
13:25	MP20595-B2	784	13703	6295	435
13:29	MP20594-MB1	844	14905	6488	510
13:34	MP20594-B1	808	13892	6377	463
13:38	F82291-1	856	14748	6499	514
13:42	MP20594-D1	873	15084	6502	521
13:46	MP20594-SD1	869	15081	6375	517

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:51	MP20594-S1	820	14185	6290	464
13:55	MP20594-S2	812	14027	6381	462
13:59	ZZZZZZ	868	14782	6522	518
14:03	ZZZZZZ	876	14953	6468	522
14:07	MA8952-CCV6	846	14358	6256	455
14:11	MA8952-CCB7	904	15127	6360	528
14:27	MA8952-CCV7	858	14347	6328	456
14:34	MA8952-CCB8	895	15159	6297	520
14:38	ZZZZZZ	879	14828	6386	510
14:43	ZZZZZZ	874	14892	6408	515
14:47	ZZZZZZ	836	14198	6341	476
14:51	MP20594-MB2	857	14345	6305	474
14:56	MP20594-B2	835	14095	6244	448
15:21	MA8952-CCV8	842	14301	6233	451
15:25	MA8952-CCB9	881	14936	6307	518
15:55	MP20596-MB1	895	15496	6416	526
15:59	MP20596-B1	848	14534	6282	473
16:03	F82223-1	734	12264	5979	378
16:08	MP20596-D1	747	12522	5970	385
16:12	MA8952-CCV9	758	13862	6009	356
16:16	MA8952-CCB10	884	14931	6330	520
16:32	MA8952-CCV10	852	14410	6269	455
16:38	MA8952-CCB11	931	15109	6244	531
16:41	MP20596-SD1	842	14038	6104	454
16:46	MP20596-PS1	733	12505	5948	376
16:50	MP20596-S1	765	12635	5948	379
16:54	MP20596-S2	773	12878	5936	381
16:59	ZZZZZZ	684	11099	5538	324
17:03	ZZZZZZ	750	13536	6023	400
17:07	ZZZZZZ	660	10774	5547	313
17:12	ZZZZZZ	784	13309	6018	414
17:16	ZZZZZZ	643	10659	5492	306
17:21	ZZZZZZ	725	12172	5889	375

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:25	MA8952-CCV11	833	14371	6178	453
17:29	MA8952-CCB12	859	14972	6292	514
17:33	ZZZZZZ	631	10488	5480	302 !
17:38	ZZZZZZ	827	14343	6158	482
17:42	ZZZZZZ	830	14708	6214	493
17:46	ZZZZZZ	791	14184	6186	470
17:51	ZZZZZZ	840	14515	6261	495
17:55	ZZZZZZ	881	15137	6427	498
17:59	ZZZZZZ	861	14941	6323	498
18:03	ZZZZZZ	869	15217	6400	485
18:08	ZZZZZZ	768	13036	6014	417
18:12	ZZZZZZ	819	13530	5856	437
18:17	MA8952-CCV12	861	14649	6176	459
18:21	MA8952-CCB13	888	15275	6200	522
18:25	ZZZZZZ	880	15103	6302	518
18:29	ZZZZZZ	807	13911	6147	458
18:34	ZZZZZZ	826	14150	6101	467
18:38	MP20596-MB2A	914	15596	6366	536
18:42	MP20600-MB1	889	15126	6198	525
18:47	MP20600-B1	871	14673	6181	513
18:51	F82470-25	844	14184	6112	479
18:55	MP20600-D1	809	14043	6088	472
18:59	MP20600-SD1	826	14672	6133	498
19:03	MP20600-PS1	760	13581	6014	447
19:08	MA8952-CCV13	781	13652	6069	437
19:12	MA8952-CCB14	862	14843	6213	517
19:16	MP20600-S1	821	14233	6097	474
19:20	MP20600-S2	782	13929	6098	462
19:24	MP20599-MB1	860	15075	6331	520
19:29	MP20599-B1	835	14492	6138	473
19:33	F82409-1	821	14670	6124	485
19:37	MP20599-D1	820	14477	6156	485
19:41	MP20599-SD1	857	14784	6206	511

INTERNAL STANDARD SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8952
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:46	MP20599-PS1	824	14583	6120	478
19:50	MP20599-S1	802	14222	6065	450
19:54	MP20599-S2	807	14028	6097	453
19:58	MA8952-CCV14	837	14295	6161	454
20:02	MA8952-CCB15	883	15313	6223	525
20:06	ZZZZZZ	823	14541	6201	485
20:11	ZZZZZZ	771	13570	6080	437
20:15	ZZZZZZ	761	13689	6179	446
20:20	MP20599-MB2	782	14472	6228	498
20:24	ZZZZZZ	726	13506	6050	453
20:28	ZZZZZZ	663	12143	5883	379
20:33	ZZZZZZ	698	12950	5980	423
20:37	ZZZZZZ	715	13611	6023	461
20:41	ZZZZZZ	723	13475	6084	463
20:46	ZZZZZZ	680	12436	5744	393
20:50	MA8952-CCV15	732	13780	5951	426
20:54	MA8952-CCB16	750	14112	6037	485
20:58	ZZZZZZ	637	12056	5707	374
21:03	ZZZZZZ	694	13127	5890	442
21:07	ZZZZZZ	646	11862	5714	377
21:12	ZZZZZZ	694	12799	5850	423
21:16	ZZZZZZ	754	14034	6035	473
21:20	ZZZZZZ	752	13927	6063	473
21:25	ZZZZZZ	661	12255	5742	383
21:29	ZZZZZZ	642	11999	5718	381
21:33	ZZZZZZ	750	13644	6166	472
21:42	MA8952-CCV16	759	13777	6074	435
21:46	MA8952-CCB17	816	14805	6288	512

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8952 Units: ug/l

Time: / Sample ID:			08:57 ICB1		09:19 ICB2		09:50 CCB1		09:54 CCB2	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1								
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1								
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2								
Silver	10	1	anr							
Sodium	10000	750	-2.6	<10000			4.3	<10000		
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1								
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8952 Units: ug/l

Time:			10:47	
Sample ID:			CCB3	
Metal	RL	IDL	raw	final
Aluminum	200	20	anr	
Antimony	6.0	1	anr	
Arsenic	10	1	anr	
Barium	200	1	anr	
Beryllium	4.0	.1		
Cadmium	5.0	.1	anr	
Calcium	1000	50	anr	
Chromium	10	1	anr	
Cobalt	50	1		
Copper	25	1	anr	
Iron	300	34	anr	
Lead	5.0	1	anr	
Magnesium	5000	50	anr	
Manganese	15	1	anr	
Molybdenum	50	1		
Nickel	40	1	anr	
Potassium	10000	50		
Selenium	10	2	anr	
Silver	10	1	anr	
Sodium	10000	750	2.8	<10000
Strontium	10	1		
Thallium	10	1	anr	
Tin	50	1		
Titanium	10	1.1		
Vanadium	50	1		
Zinc	20	1	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8952 Units: ug/l

Time:		08:49			09:45			10:44	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	39800	99.5	40000	41200	103.0	40000	41900	104.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA8952 Units: ug/l

Time:		08:44	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium	80000	79000	98.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA8952 Units: ug/l

Time:			09:23	
Sample ID:	CRI	CRIA	CRIA1	
Metal	True	True	Results	% Rec
Aluminum	400	200	anr	
Antimony	10	5.0	anr	
Arsenic	20	10	anr	
Barium	400	200	anr	
Beryllium	10	5.0		
Cadmium	10	5.0	anr	
Calcium	2000	1000	anr	
Chromium	20	10	anr	
Cobalt	100	50		
Copper	50	25	anr	
Iron	600	300	anr	
Lead	10	5.0	anr	
Magnesium	10000	5000	anr	
Manganese	30	15	anr	
Molybdenum	100	50		
Nickel	80	40	anr	
Potassium	20000	10000		
Selenium	20	10	anr	
Silver	20	10	anr	
Sodium	20000	10000	9790	97.9
Strontium	20	10		
Thallium	20	10	anr	
Tin	100	50		
Titanium	20	10		
Vanadium	100	50		
Zinc	40	20	anr	

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051811M1.ICP Date Analyzed: 05/18/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA8952 Units: ug/l

Time:			09:31		09:38	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	473000	94.6	475000	95.0
Antimony		1000	0.0		994	99.4
Arsenic		1000	0.0		1010	101.0
Barium		500	0.30		494	98.8
Beryllium		500	-0.10		473	94.6
Cadmium		1000	0.0		918	91.8
Calcium	500000	500000	464000	92.8	456000	91.2
Chromium		500	0.0		467	93.4
Cobalt		500	0.20		455	91.0
Copper		500	0.80		505	101.0
Iron	200000	200000	179000	89.5	177000	88.5
Lead		1000	0.0		981	98.1
Magnesium	500000	500000	488000	97.6	474000	94.8
Manganese		500	-0.10		477	95.4
Molybdenum		1000	-0.10		940	94.0
Nickel		1000	0.40		918	91.8
Potassium			-18		-14	
Selenium		1000	-1.5		991	99.1
Silver		1000	0.40		1080	108.0
Sodium			56.6		59.0	
Strontium		1000	0.40		0.40	0.0*
Thallium		1000	0.80		936	93.6
Tin		1000	3.7		855	85.5
Titanium		1000	-1.8		-1.0	0.0*
Vanadium		500	0.0		483	96.6
Zinc		1000	-1.8		872	87.2

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
Analyst: LM Run ID: MA8959
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:59	MA8959-STD1	1		STD01REP1
11:01	MA8959-STD2	1		STD02REP1
11:04	MA8959-STD3	1		STD03REP1
11:06	MA8959-STD4	1		STD04REP1
11:09	MA8959-STD5	1		STD05REP1
11:11	MA8959-STD6	1		STD06REP1
11:15	MA8959-HSTD1	1		
11:17	MA8959-ICV1	1		
11:20	MA8959-ICB1	1		
11:23	MA8959-CRI1	1		
11:26	MA8959-CCV1	1		
11:29	MA8959-CCB1	1		
13:23	MA8959-CCV2	1		
13:26	MA8959-CCB2	1		
13:28	MP20614-MB1	1		
13:31	MP20614-B1	1		
13:33	F82144-15	1		(sample used for QC only; not part of login F82298)
13:35	MP20614-D1	1		
13:37	MP20614-SD1	5		
13:40	MP20614-S1	1		
13:42	MP20614-S2	1		
13:44	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:52	MA8959-CCV3	1		
13:54	MA8959-CCB3	1		
13:56	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:11	F82298-1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
Analyst: LM Run ID: MA8959
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:13	F82298-1F	1		
---------->	Last reportable sample/prep for job F82298			
14:18	MA8959-CRI2	1		
14:21	MA8959-CCV4	1		
14:23	MA8959-CCB4	1		
---------->	Last reportable CCB for job F82298			
	Refer to raw data for calibration curve and standards.			

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA8959 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	11:20 ICB1 raw	final	11:29 CCB1 raw	final	13:26 CCB2 raw	final	13:54 CCB3 raw	final
Mercury	1.0	.071	0.019	<1.0	-0.099	<1.0	-0.0020	<1.0	-0.030	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA8959 Units: ug/l

Time:			14:23	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Mercury	1.0	.071	-0.0040	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8959 Units: ug/l

Time:		11:17			11:26			13:23	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3	3.1	103.3	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8959 Units: ug/l

Time:		13:52			14:21	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3	3.1	103.3

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA8959 Units: ug/l

Time:		11:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.8	96.7

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H20520W3.PRN Date Analyzed: 05/20/11 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA8959 Units: ug/l

Time:			11:23		14:18	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.19	95.0	0.11	55.0*(a)

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/17/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25	4.7	<200
Antimony	6.0	1	2	1.6	<6.0
Arsenic	10	1	2	-2.2	<10
Barium	200	1	5	0.0	<200
Beryllium	4.0	.1	1	-0.10	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100	1.6	<1000
Chromium	10	1	1	-0.10	<10
Cobalt	50	1	1	-0.20	<50
Copper	25	1	2	-0.50	<25
Iron	300	34	35	1.1	<300
Lead	5.0	1	1	-0.90	<5.0
Magnesium	5000	50	100	33.4	<5000
Manganese	15	1	1	0.0	<15
Molybdenum	50	1	2		
Nickel	40	1	2	0.20	<40
Potassium	10000	50	500	-25	<10000
Selenium	10	2	2	0.0	<10
Silver	10	1	1	-0.80	<10
Sodium	10000	750	1900	-5.9	<10000
Strontium	10	1	1		
Thallium	10	1	1.9	-1.7	<10
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	0.20	<50
Zinc	20	1	5	0.50	<20

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/17/11					05/17/11	
Metal	F82099-1 Original	DUP	RPD	QC Limits	F82099-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	37.4	33.5	11.0	0-20	37.4	22900	27000	84.7	80-120
Antimony	0.0	1.1	200.0(a)	0-20	0.0	474	500	94.8	80-120
Arsenic	106	105	0.9	0-20	106	1980	2000	93.7	80-120
Barium	1990	1970	1.0	0-20	1990	3710	2000	86.0	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	44.6	50	89.2	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	47.9	50	95.8	80-120
Calcium	110000	108000	1.8	0-20	110000	124000	25000	56.0 (b)	80-120
Chromium	0.0	0.0	NC	0-20	0.0	195	200	97.5	80-120
Cobalt	1.0	0.0	200.0(a)	0-20	1.0	480	500	95.8	80-120
Copper	0.0	1.0	200.0(a)	0-20	0.0	252	250	100.8	80-120
Iron	65000	64000	1.6	0-20	65000	80600	26000	60.0N(c)	80-120
Lead	0.0	1.0	200.0(a)	0-20	0.0	462	500	92.4	80-120
Magnesium	19000	18700	1.6	0-20	19000	37800	25000	75.2N(c)	80-120
Manganese	2680	2640	1.5	0-20	2680	3160	500	96.0	80-120
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	481	500	96.2	80-120
Potassium	4230	4180	1.2	0-20	4230	26100	25000	87.5	80-120
Selenium	5.8	0.0	200.0(a)	0-20	5.8	1910	2000	95.2	80-120
Silver	0.0	0.0	NC	0-20	0.0	48.7	50	97.4	80-120
Sodium	15100	14900	1.3	0-20	15100	36600	25000	86.0	80-120
Strontium									
Thallium	1.3	0.0	200.0(a)	0-20	1.3	1870	2000	93.4	80-120
Tin									
Titanium									
Vanadium	1.4	0.0	200.0(a)	0-20	1.4	488	500	97.3	80-120
Zinc	3.9	4.1	5.0	0-20	3.9	459	500	91.0	80-120

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/17/11

Metal	F82099-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	37.4	25600	27000	94.7	11.1	20
Antimony	0.0	475	500	95.0	0.2	20
Arsenic	106	1990	2000	94.2	0.5	20
Barium	1990	3950	2000	98.0	6.3	20
Beryllium	0.0	49.9	50	99.8	11.2	20
Cadmium	0.0	47.1	50	94.2	1.7	20
Calcium	110000	136000	25000	104.0	9.2	20
Chromium	0.0	194	200	97.0	0.5	20
Cobalt	1.0	482	500	96.2	0.4	20
Copper	0.0	253	250	101.2	0.4	20
Iron	65000	89200	26000	93.1	10.1	20
Lead	0.0	468	500	93.6	1.3	20
Magnesium	19000	42000	25000	92.0	10.5	20
Manganese	2680	3130	500	90.0	1.0	20
Molybdenum						
Nickel	0.0	482	500	96.4	0.2	20
Potassium	4230	28800	25000	98.3	9.8	20
Selenium	5.8	1910	2000	95.2	0.0	20
Silver	0.0	48.6	50	97.2	0.2	20
Sodium	15100	40300	25000	100.8	9.6	20
Strontium						
Thallium	1.3	1890	2000	94.4	1.1	20
Tin						
Titanium						
Vanadium	1.4	486	500	96.9	0.4	20
Zinc	3.9	463	500	91.8	0.9	20

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/17/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	26300	27000	97.4	80-120
Antimony	463	500	92.6	80-120
Arsenic	1810	2000	90.5	80-120
Barium	2120	2000	106.0	80-120
Beryllium	49.1	50	98.2	80-120
Cadmium	47.0	50	94.0	80-120
Calcium	23500	25000	94.0	80-120
Chromium	194	200	97.0	80-120
Cobalt	483	500	96.6	80-120
Copper	246	250	98.4	80-120
Iron	24900	26000	95.8	80-120
Lead	453	500	90.6	80-120
Magnesium	23400	25000	93.6	80-120
Manganese	490	500	98.0	80-120
Molybdenum				
Nickel	481	500	96.2	80-120
Potassium	24900	25000	99.6	80-120
Selenium	1850	2000	92.5	80-120
Silver	47.0	50	94.0	80-120
Sodium	25400	25000	101.6	80-120
Strontium				
Thallium	1870	2000	93.5	80-120
Tin				
Titanium				
Vanadium	476	500	95.2	80-120
Zinc	455	500	91.0	80-120

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/17/11

Metal	F82099-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	37.4	0.00	100.0(a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	106	112	6.0	0-10
Barium	1990	2090	5.4	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	110000	118000	7.8	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	1.00	0.00	100.0(a)	0-10
Copper	0.00	0.00	NC	0-10
Iron	65000	71800	10.0	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	19000	20200	6.3	0-10
Manganese	2680	2960	10.8*(b)	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	4230	4360	3.0	0-10
Selenium	5.80	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	15100	15900	4.9	0-10
Strontium				
Thallium	1.30	8.20	530.8(a)	0-10
Tin				
Titanium				
Vanadium	1.40	0.00	100.0(a)	0-10
Zinc	3.90	9.50	143.6(a)	0-10

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20592
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/17/11

Metal	Sample ml	Final ml	F82099-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	37.4	36.652	2555	0.2	125	2500	100.7	80-120
Antimony	9.8	10	0	0	98.8	0.2	5	100	98.8	80-120
Arsenic	9.8	10	105.5	103.39	199.8	0.2	5	100	96.4	80-120
Barium	9.8	10	1986	1946.28	2220	0.2	12.5	250	109.5	80-120
Beryllium	9.8	10	0	0	48	0.2	2.5	50	96.0	80-120
Cadmium	9.8	10	0	0	48.8	0.2	2.5	50	97.6	80-120
Calcium	9.8	10	109700	107506	112500	0.2	250	5000	99.9	80-120
Chromium	9.8	10	0	0	49.5	0.2	2.5	50	99.0	80-120
Cobalt	9.8	10	1	0.98	49	0.2	2.5	50	96.0	80-120
Copper	9.8	10	0	0	105.4	0.2	5	100	105.4	80-120
Iron	9.8	10	64980	63680.4	66750	0.2	150	3000	102.3	80-120
Lead	9.8	10	0	0	48.1	0.2	2.5	50	96.2	80-120
Magnesium	9.8	10	19030	18649.4	23250	0.2	250	5000	92.0	80-120
Manganese	9.8	10	2675	2621.5	2629	0.2	2.5	50	15.0*(a)	80-120
Molybdenum										
Nickel	9.8	10	0	0	98.8	0.2	5	100	98.8	80-120
Potassium	9.8	10	4229	4144.42	14730	0.2	500	10000	105.9	80-120
Selenium	9.8	10	5.8	5.684	102.8	0.2	5	100	97.1	80-120
Silver	9.8	10	0	0	49	0.2	2.5	50	98.0	80-120
Sodium	9.8	10	15120	14817.6	25930	0.2	500	10000	111.1	80-120
Strontium										
Thallium	9.8	10	1.3	1.274	93.5	0.2	5	100	92.2	80-120
Tin										
Titanium										
Vanadium	9.8	10	1.4	1.372	50.3	0.2	2.5	50	97.9	80-120
Zinc	9.8	10	3.9	3.822	231.6	0.2	12.5	250	91.1	80-120

Associated samples MP20592: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20614
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/20/11

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.071	.05	-0.0070	<1.0

Associated samples MP20614: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20614
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/20/11 05/20/11

Metal	F82144-15 Original	DUP	RPD	QC Limits	F82144-15 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.13	0.0	200.0(a)	0-20	0.13	3.0	3	95.7	80-120

Associated samples MP20614: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20614 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/20/11

Metal	F82144-15 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.13	3.1	3	99.0	3.3	20

Associated samples MP20614: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20614
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/20/11

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	80-120

Associated samples MP20614: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20614
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/20/11

Metal	F82144-15 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.127	0.00	100.0(a)	0-10

Associated samples MP20614: F82298-1, F82298-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44611	5.0	0.0	mg/l	250	235	94.0	90-113%
Chloride	GP16981/GN44519	2.0	0.0	mg/l	50	49.7	99.4	90-110%
Chromium, Hexavalent	GN44502	0.010	0.0	mg/l	0.100	0.093	92.8	78-120%
Cyanide, Total	GP17002/GN44592	0.010	0.0	mg/l	0.1	0.0965	96.5	90-110%
Nitrogen, Nitrate	GP16981/GN44519	0.10	0.0	mg/l	2.5	2.38	95.2	90-110%
Nitrogen, Nitrite	GP16981/GN44519	0.10	0.0	mg/l	2.5	2.50	100.0	90-110%
Solids, Total Dissolved	GN44520	100	0.0	mg/l				
Sulfate	GP16981/GN44519	2.0	0.0	mg/l	50	50.0	100.0	90-110%

Associated Samples:
Batch GN44502: F82298-1
Batch GN44520: F82298-1
Batch GN44611: F82298-1
Batch GP16981: F82298-1
Batch GP17002: F82298-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44611	F82311-13	mg/l	42.0	43.5	3.5	0-20%
Chloride	GP16981/GN44519	F82290-1	mg/l	11.7	11.6	0.9	0-20%
Chromium, Hexavalent	GN44502	F82298-1	mg/l	0.0030 U	0.0030 U	0.0	0-34%
Cyanide, Total	GP17002/GN44592	F82309-2	mg/l	0.0053	0.0	200.0(a)	0-20%
Nitrogen, Nitrate	GP16981/GN44519	F82290-1	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrite	GP16981/GN44519	F82290-1	mg/l	0.050 U	0.0	0.0	0-20%
Solids, Total Dissolved	GN44520	F82279-1	mg/l	8250	5160	46.1*(b)	0-5%
Sulfate	GP16981/GN44519	F82290-1	mg/l	34.2	34.3	0.3	0-20%

Associated Samples:
Batch GN44502: F82298-1
Batch GN44520: F82298-1
Batch GN44611: F82298-1
Batch GP16981: F82298-1
Batch GP17002: F82298-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) High RPD due to possible sample nonhomogeneity.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44611	F82311-13	mg/l	42.0	250	287	98.0	90-113%
Chloride	GP16981/GN44519	F82290-1	mg/l	11.7	50	51.3	79.2N	90-110%
Chromium, Hexavalent	GN44502	F82298-1	mg/l	0.0030 U	.100	0.079	78.6	78-120%
Cyanide, Total	GP17002/GN44592	F82309-2	mg/l	0.0053	0.1	0.10	94.7	90-110%
Nitrogen, Nitrate	GP16981/GN44519	F82290-1	mg/l	0.050 U	2.5	2.1	84.0N	90-110%
Nitrogen, Nitrite	GP16981/GN44519	F82290-1	mg/l	0.050 U	2.5	2.1	84.0N	90-110%
Sulfate	GP16981/GN44519	F82290-1	mg/l	34.2	50	69.5	70.6N	90-110%

Associated Samples:
Batch GN44502: F82298-1
Batch GN44611: F82298-1
Batch GP16981: F82298-1
Batch GP17002: F82298-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44611	F82311-13	mg/l	42.0	250	281	2.1	20%
Cyanide, Total	GP17002/GN44592	F82309-2	mg/l	0.0053	0.1	0.10	0.0	20%

Associated Samples:
Batch GN44611: F82298-1
Batch GP17002: F82298-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311051201.TXT Date Analyzed: 05/12/11 Methods: EPA 300/SW846 9056A
Analyst: LT Run ID: GN44519
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:14	GN44519-CCV1	1		
09:30	GN44519-CCB1	1		
10:55	GP16962-D1	5		
11:29	GN44519-CCV2	1		
11:46	GN44519-CCB2	1		
12:03	GP16981-MB1	1		
12:20	GP16981-B1	1		
12:36	F82290-1	1		(sample used for QC only; not part of login F82298)
12:53	GP16981-D1	1		
13:10	GP16981-S1	1		
13:27	ZZZZZZ	50		
13:44	ZZZZZZ	100		
14:01	ZZZZZZ	100		
14:18	ZZZZZZ	50		
14:35	GN44519-CCV3	1		
14:52	GN44519-CCB3	1		
15:09	ZZZZZZ	2		
15:25	ZZZZZZ	100		
15:42	ZZZZZZ	5		
15:59	ZZZZZZ	5		
16:16	ZZZZZZ	5		
16:33	ZZZZZZ	10		
16:50	ZZZZZZ	100		
17:07	ZZZZZZ	10		
17:24	F82287-10	1		(sample used for QC only; not part of login F82298)
17:41	GN44519-CCV4	1		
17:58	GN44519-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311051201.TXT Date Analyzed: 05/12/11 Methods: EPA 300/SW846 9056A
Run ID: GN44519 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44519-CCV1	Chloride	48.8	2.0	1.0	50	97.6	90-110
GN44519-CCV1	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44519-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN44519-CCV1	Sulfate	47.3	2.0	1.0	50	94.6	90-110
GN44519-CCB1	Chloride	1.0 U	2.0	1.0			
GN44519-CCB1	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44519-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44519-CCB1	Sulfate	1.0 U	2.0	1.0			
GN44519-CCV2	Chloride	49.8	2.0	1.0	50	99.6	90-110
GN44519-CCV2	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44519-CCV2	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN44519-CCV2	Sulfate	48.4	2.0	1.0	50	96.8	90-110
GN44519-CCB2	Chloride	1.0 U	2.0	1.0			
GN44519-CCB2	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44519-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44519-CCB2	Sulfate	1.0 U	2.0	1.0			
GN44519-CCV3	Chloride	49.1	2.0	1.0	50	98.2	90-110
GN44519-CCV3	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44519-CCV3	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44519-CCV3	Sulfate	49.8	2.0	1.0	50	99.6	90-110
GN44519-CCB3	Chloride	1.0 U	2.0	1.0			
GN44519-CCB3	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44519-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44519-CCB3	Sulfate	1.0 U	2.0	1.0			
GN44519-CCV4	Chloride	48.8	2.0	1.0	50	97.6	90-110
GN44519-CCV4	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44519-CCV4	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44519-CCV4	Sulfate	49.4	2.0	1.0	50	98.8	90-110
GN44519-CCB4	Chloride	1.0 U	2.0	1.0			
GN44519-CCB4	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44519-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44519-CCB4	Sulfate	1.0 U	2.0	1.0			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311051301.TXT Date Analyzed: 05/13/11 Methods: EPA 300/SW846 9056A
Analyst: LT Run ID: GN44524
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:59	GN44524-CCV1	1		
10:15	GN44524-CCB1	1		
10:32	GP16984-MB1	1		
10:49	GP16984-B1	1		
11:23	ZZZZZZ	100		
11:40	F82339-3	100		(sample used for QC only; not part of login F82298)
11:57	GP16984-D1	100		
12:14	GP16984-S1	100		
12:31	ZZZZZZ	1		
12:47	F82341-9	1		(sample used for QC only; not part of login F82298)
13:04	GN44524-CCV2	1		
13:21	GN44524-CCB2	1		
13:38	ZZZZZZ	1		
13:55	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:46	ZZZZZZ	1		
15:03	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:54	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:27	GN44524-CCV3	1		
16:44	GN44524-CCB3	1		
17:01	ZZZZZZ	1		
17:18	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:52	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:26	ZZZZZZ	1		
18:43	GP16984-D2	1		
19:00	GP16984-S2	1		
19:17	GN44524-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311051301.TXT Date Analyzed: 05/13/11 Methods: EPA 300/SW846 9056A
Analyst: LT Run ID: GN44524
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:34	GN44524-CCB4	1		
19:51	GP16962-S1	5		
20:08	F82162-1	5		(sample used for QC only; not part of login F82298)
20:24	F82298-1	5		
20:41	GP16981-D2	1		
21:15	GP16981-S2	1		
21:32	GN44524-CCV5	1		
21:49	GN44524-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311051301.TXT Date Analyzed: 05/13/11 Methods: EPA 300/SW846 9056A
Run ID: GN44524 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44524-CCV1	Chloride	48.6	2.0	1.0	50	97.2	90-110
GN44524-CCV1	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV1	Sulfate	49.8	2.0	1.0	50	99.6	90-110
GN44524-CCB1	Chloride	1.0 U	2.0	1.0			
GN44524-CCB1	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44524-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44524-CCB1	Sulfate	1.0 U	2.0	1.0			
GN44524-CCV2	Chloride	48.7	2.0	1.0	50	97.4	90-110
GN44524-CCV2	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV2	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44524-CCV2	Sulfate	51.0	2.0	1.0	50	102.0	90-110
GN44524-CCB2	Chloride	1.0 U	2.0	1.0			
GN44524-CCB2	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44524-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44524-CCB2	Sulfate	1.0 U	2.0	1.0			
GN44524-CCV3	Chloride	48.7	2.0	1.0	50	97.4	90-110
GN44524-CCV3	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV3	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44524-CCV3	Sulfate	50.7	2.0	1.0	50	101.4	90-110
GN44524-CCB3	Chloride	1.0 U	2.0	1.0			
GN44524-CCB3	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44524-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44524-CCB3	Sulfate	1.0 U	2.0	1.0			
GN44524-CCV4	Chloride	48.8	2.0	1.0	50	97.6	90-110
GN44524-CCV4	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV4	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44524-CCV4	Sulfate	51.1	2.0	1.0	50	102.2	90-110
GN44524-CCB4	Chloride	1.0 U	2.0	1.0			
GN44524-CCB4	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44524-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44524-CCB4	Sulfate	1.0 U	2.0	1.0			
GN44524-CCV5	Chloride	49.0	2.0	1.0	50	98.0	90-110
GN44524-CCV5	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44524-CCV5	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44524-CCV5	Sulfate	49.8	2.0	1.0	50	99.6	90-110
GN44524-CCB5	Chloride	1.0 U	2.0	1.0			
GN44524-CCB5	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44524-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44524-CCB5	Sulfate	1.0 U	2.0	1.0			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A051811CN1.CSV Date Analyzed: 05/18/11 Methods: EPA 335.4/SW 9012B
Analyst: TC Run ID: GN44592
Parameters: Cyanide, Total

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:25	GN44592-ICV1	1		
14:26	GN44592-ICB1	1		
14:27	GN44592-CCV1	1		
14:28	GN44592-CCB1	1		
14:29	GP17002-MB1	1		
14:30	GP17002-B1	1		
14:32	GP17002-D1	1		
14:33	GP17002-S1	1		
14:34	GP17002-S2	1		
14:35	F82309-2	1		(sample used for QC only; not part of login F82298)
14:35	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:37	GN44592-CCV2	1		
14:38	GN44592-CCB2	1		
14:39	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:43	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:47	GN44592-CCV3	1		
14:48	GN44592-CCB3	1		
14:50	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:53	ZZZZZZ	1		
14:54	GP16995-D1	1		
14:57	F82268-5	1		(sample used for QC only; not part of login F82298)
14:58	GN44592-CCV4	1		
14:59	GN44592-CCB4	1		
14:59	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A051811CN1.CSV Date Analyzed: 05/18/11 Methods: EPA 335.4/SW 9012B
Analyst: TC Run ID: GN44592
Parameters: Cyanide, Total

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:00	ZZZZZZ	1		
15:01	F82298-1	1		
15:02	ZZZZZZ	1		
15:03	GN44592-CCV5	1		
15:04	GN44592-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F82298
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A051811CN1.CSV Date Analyzed: 05/18/11 Methods: EPA 335.4/SW 9012B
Run ID: GN44592 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44592-ICV1	Cyanide, Total	0.26	0.010	0.0050	.25	104.0	90-110
GN44592-ICB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44592-CCV1	Cyanide, Total	0.25	0.010	0.0050	.25	100.0	90-110
GN44592-CCB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44592-CCV2	Cyanide, Total	0.25	0.010	0.0050	.25	100.0	90-110
GN44592-CCB2	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44592-CCV3	Cyanide, Total	0.25	0.010	0.0050	.25	100.0	90-110
GN44592-CCB3	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44592-CCV4	Cyanide, Total	0.25	0.010	0.0050	.25	100.0	90-110
GN44592-CCB4	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44592-CCV5	Cyanide, Total	0.25	0.010	0.0050	.25	100.0	90-110
GN44592-CCB5	Cyanide, Total	0.0050 U	0.010	0.0050			

(!) Outside of QC limits

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113618**
Project ID: F82298X
Purchase Order: F82298X

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MWQ 22	1113618001	05/11/11	05/14/11	F82298X

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113618

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011
Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MWQ 22**	Sampling Site: F82298X	Collected: 05/11/2011
Lab ID: 1113618001	Media: 250 mL Nalgene	Received: 05/14/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/19/2011 10:48	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	1.4	1.0	10	5	J

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	Peer Review

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at http://health.utah.gov/lab/labimp/labcert/envlabcert.html. The quality systems implemented in the laboratory apply to all methods performed by ALS regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113618
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

1113618

ACCUTEST Laboratories

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

41810/#1 1113618

PAGE 1 OF 1

Client / Reporting Information	Project Information	Analytical Information	Matrix Codes
Company Name: Accutest Laboratories	Project Name: F82298X	PERCHLORATE 6850	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL- Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe
Address: 4405 Vineland Rd.	Please send report to dawnd@accutest.com		
City: Orlando State: FL Zip: 32811	For any other issues contact munam@accutest.com		
Phone #: (407) 425-6700 Fax#: (407) 425-0707			

		COLLECTION			CONTAINER INFORMATION												
Lab ID #	Sample ID	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	PERCHLORATE 6850	LAB USE ONLY
1	MWQ 22	05/11/11	11:01		GW	1		X								X	

Turnaround Time (Business days)	Data Deliverable Information	Comments / Remarks
Std. 10 Business Days	☐ COMMERCIAL "A" (RESULTS ONLY)	Ship to Laboratory - AS
7 Day *RUSH*	☐ COMMERCIAL "B" (RESULTS PLUS QC)	Approved by -
5 Day *RUSH*	☒ REDT1 (EPA LEVEL 3)	
3 Day *EMERGENCY*	☐ FULLT1 (EPA LEVEL 4)	
2 Day *EMERGENCY*	☐ EDD'S	
1 Day *EMERGENCY*		
Other		

Approved By: / Date/Rush Code:

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	05-13-11 1200	2	3 FR		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: ____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: F82298X	Split:	Workorder ID: 1113618	Requested Analysis
Client: Accutest Laboratories		Account: 8001	Type: 250Poly
Comments:			Preservatives: COOL
			Containers

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	ID(s)	Count	EPA 8650
1	05/11/2011 11:01	MWQ 22	1113618001		Water	A	1	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Warath, Julie	05/14/2011 00:00	ALS Sample Receiving	Sample Login
Julie Woodruff	5/16/11 1130	13B	storage
R.33.1	5/18/11/1300	Tom Bosch	Client analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20-1113618-03

2011-05-16-1113618-02

ALS Laboratory Group Salt Lake City Client-Related Information Report (CRIR)

Cooler or Container Information Checklist (Fill In or Circle)

Client Name: Denver — Project/Task/Site: 1113618

Date/Time of Receipt: 5/14/11 830 — Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA	Location Temp Taken:	Control/Between Samples
	Intact/Broken/NA	Are all temperatures within	
Tamper Evident:	Yes/No/NA	project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA	Are all applicable pHs within	
	Frozen/Melted/NA	specific guidelines?	Yes/No/NA

PH Check:							
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A.B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7765	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) — Meredith Edwards (Printed Name) — 5/14/11 (Date)

Client-Related Information

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

Briefly Describe the Problem and the Action Taken:

Sample name MW-22 listed on paperwork does not appear on container. It shows F8229461 on container.

Faxed to Client? Yes ☐ No ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

Project Management

Project Manager Comments:

ALS Project Manager: _____ (Printed Name) — Returned to Sample Receipt by: _____ (Signature) — Date: _____

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information

▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113618

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

	CCV: 219404 Analyzed: 05/18/2011 16:04 Units: ug/L Criteria: ± 15%			CCV: 219411 Analyzed: 05/18/2011 19:12 Units: ug/L Criteria: ± 15%			CCV: 219544 Analyzed: 05/19/2011 10:27 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

	CCV: 219545 Analyzed: 05/19/2011 11:51 Units: ug/L Criteria: ± 15%		
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

	ICS: 219406 Analyzed: 05/18/2011 16:46 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

	LODV: 219405 Analyzed: 05/18/2011 16:25 Units: ug/L Criteria: ± 30%			LODV: 219412 Analyzed: 05/18/2011 19:33 Units: ug/L Criteria: ± 30%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	0.159	0.1	*159	0.237	0.1	*237

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: ELMS/ 1182
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850...3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850....3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850...3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	6/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence:\\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:
Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation. Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description - 6850 Working Standard

Standard:	10684	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 WRK 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT				Description	6850 Intermediate Stock
Standard:	10683	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 INT 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O				Description: ASTM Type II Water	
Standard:	109	**Expires:**	11/7/2015	**Usable:**	Yes
Lab Lot:	LAB 109	**Created By:**	ALS Support (Lims)	**Amount:**	100 L
Part ID:		**Create Date:**	10/6/2005	**Validated By:**	
MFG:	DCL In House	**MFG Lot:**		**Validated Date:**	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK				Description - 6850 Stock Standard	
Standard:	7186	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 STOCK	**Created By:**	T. Bosch	**Amount:**	250 mL
Part ID:	IC-PER-10X-1	**Create Date:**	2/8/2010	**Validated By:**	
MFG:	AccuStandard	**MFG Lot:**	209115027	**Validated Date:**	

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK	Description: 6850 QC Working Standard				
Standard:	10687	**Expires:**	02/10/2012	**Usable:**	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK					Description : 6850 QC Stock Standard
Standard:	10685	**Expires:**	5/31/2014	**Usable:**	Yes
Lab Lot:	CLO4 QC STOCK	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:	ICC-013	**Create Date:**	2/10/2011	**Validated By:**	
MFG:	Ultra Scientific	**MFG Lot:**	L00429	**Validated Date:**	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT — Description = 6850 QC Intermediate Standard

Standard:	10686	**Expires:**	05/31/2014	**Usable:**	Yes
Lab Lot:	CLO4 QC INT 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

ACCREDITED

ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK		Description: Perchlorate ISTD Wrk			
Standard:	10682	Expires:	02/10/2012	Usable:	Yes
Lab Lot:	CLO4ISTDWRK	Created By:	T. Bosch	Amount:	100 mL
Part ID:		Create Date:	02/10/2011	Validated By:	T. Bosch
MFG:	ALS/SLC	MFG Lot:		Validated Date:	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description: Perchlorate ISTD Stock	
Standard:	3915	**Expires:**	9/28/2017	**Usable:**	Yes
Lab Lot:	CLO4ISTDSTK	**Created By:**	T. McKay	**Amount:**	1 mL
Part ID:	OLM-7310-1.2	**Create Date:**	2/5/2009	**Validated By:**	T. Bosch
MFG:	Cambridge Isotope	**MFG Lot:**	SCHI-001	**Validated Date:**	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: PERCHLORIC ACID, SODIUM SALT
(Isotopic Label & Enrichment Specification) (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

S 3915

Product Information

Chemical Purity Specification:	≥98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 µg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 µg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#	*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT		Perchlorate Amount
	*	219404	CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547		24.4933
	*	219405	LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549		1.59442e-
	*	219406	ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539		8.46863e-
	*	219407	LMB	Vial 4	1	18MAY004.D	0.00000	0.000		0.0000
	*	219408	LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685		4.5082
	*	1113618001		Vial 6	1	18MAY006.D	2.17021e4	11.241		2.0218
	*	219409	136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297	NR	7.5273
	*	219410	136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287		6.5517
	*	1113713001		Vial 9	1	18MAY009.D	3.58555e5	10.925		19.5730
	*	219411	CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686		25.1600
	*	219412	LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704		2.36525e-

NR. Not Reported

#	*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-8 Amoun
	*	219404	CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.8003
	*	219405	LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-
	*	219406	ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-
	*	219407	LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.0000
	*	219408	LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.8749
	*	1113618001		Vial 6	1	18MAY006.D	4403.96973	11.262	1.2950
	*	219409	136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.7841
	*	219410	136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.0272
	*	1113713001		Vial 9	1	18MAY009.D	1.18943e5	10.937	21.3256
	*	219411	CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.3223
	*	219412	LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-

#	*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-8 Amoun
	*	219404	CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.0000
	*	219405	LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.0000
	*	219406	ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.0000
	*	219407	LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.0000
	*	219408	LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.0000
	*	1113618001		Vial 6	1	18MAY006.D	4.19646e4	11.286	5.0000
	*	219409	136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.0000
	*	219410	136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.0000
	*	1113713001		Vial 9	1	18MAY009.D	6.75993e4	10.934	5.0000
	*	219411	CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.0000
	*	219412	LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.0000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

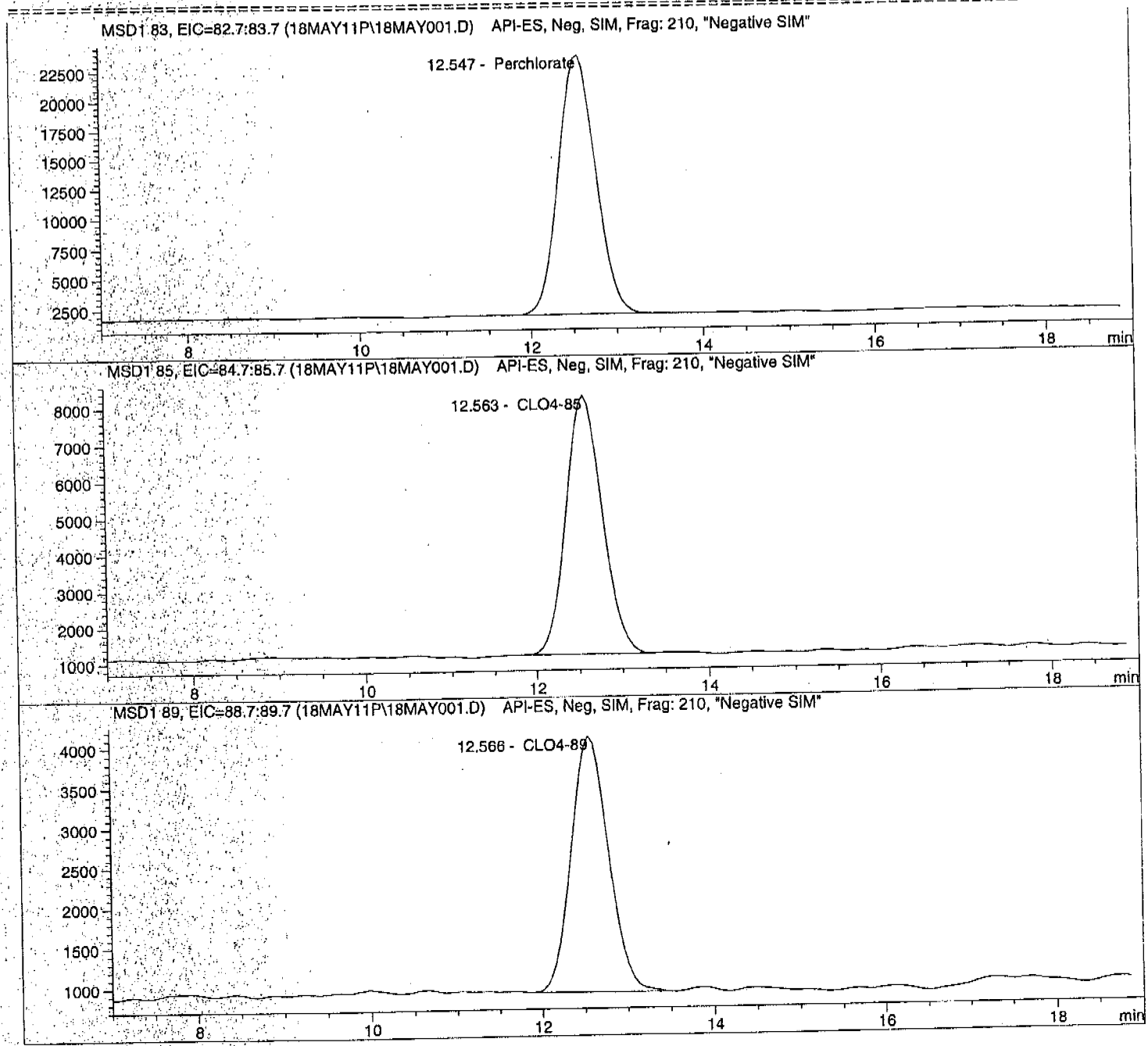
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

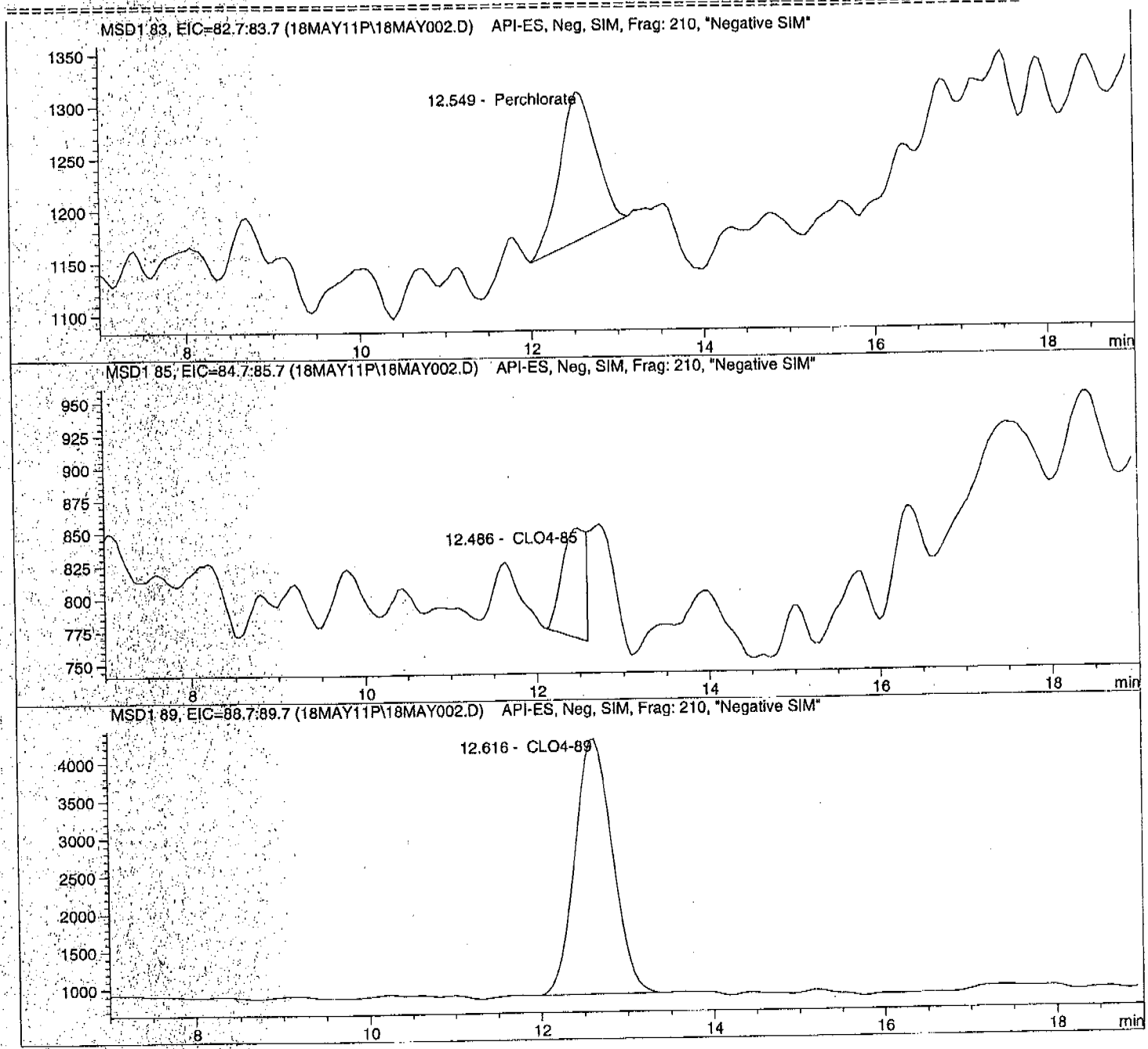
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

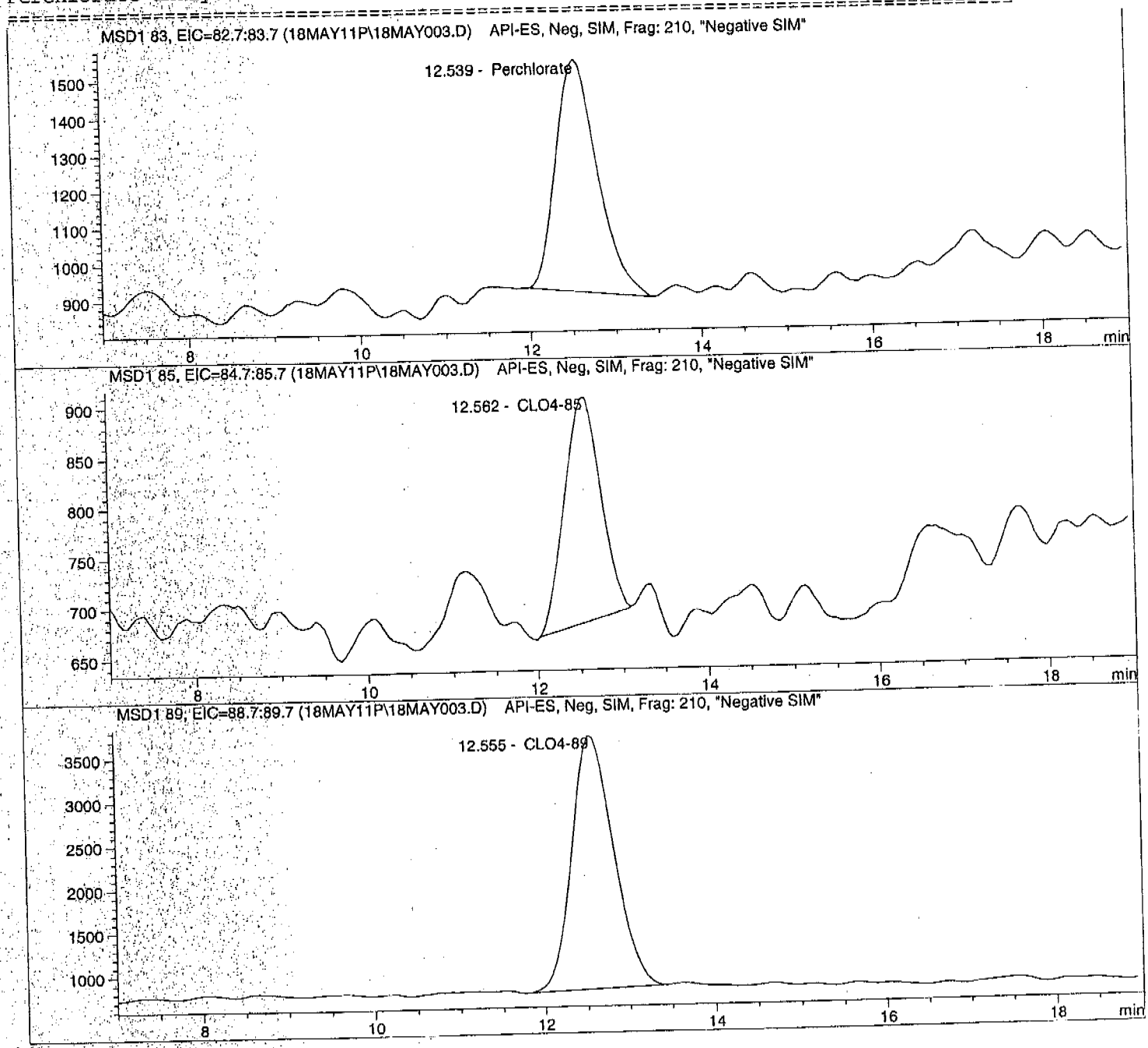
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date: 5/18/2011 16:46:34
Sample Name: 219406 ICS
Acq Operator: TNB

Seq Line: 3
Location: Vial 3
Inj. No.: 1
Inj. Vol.: 20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

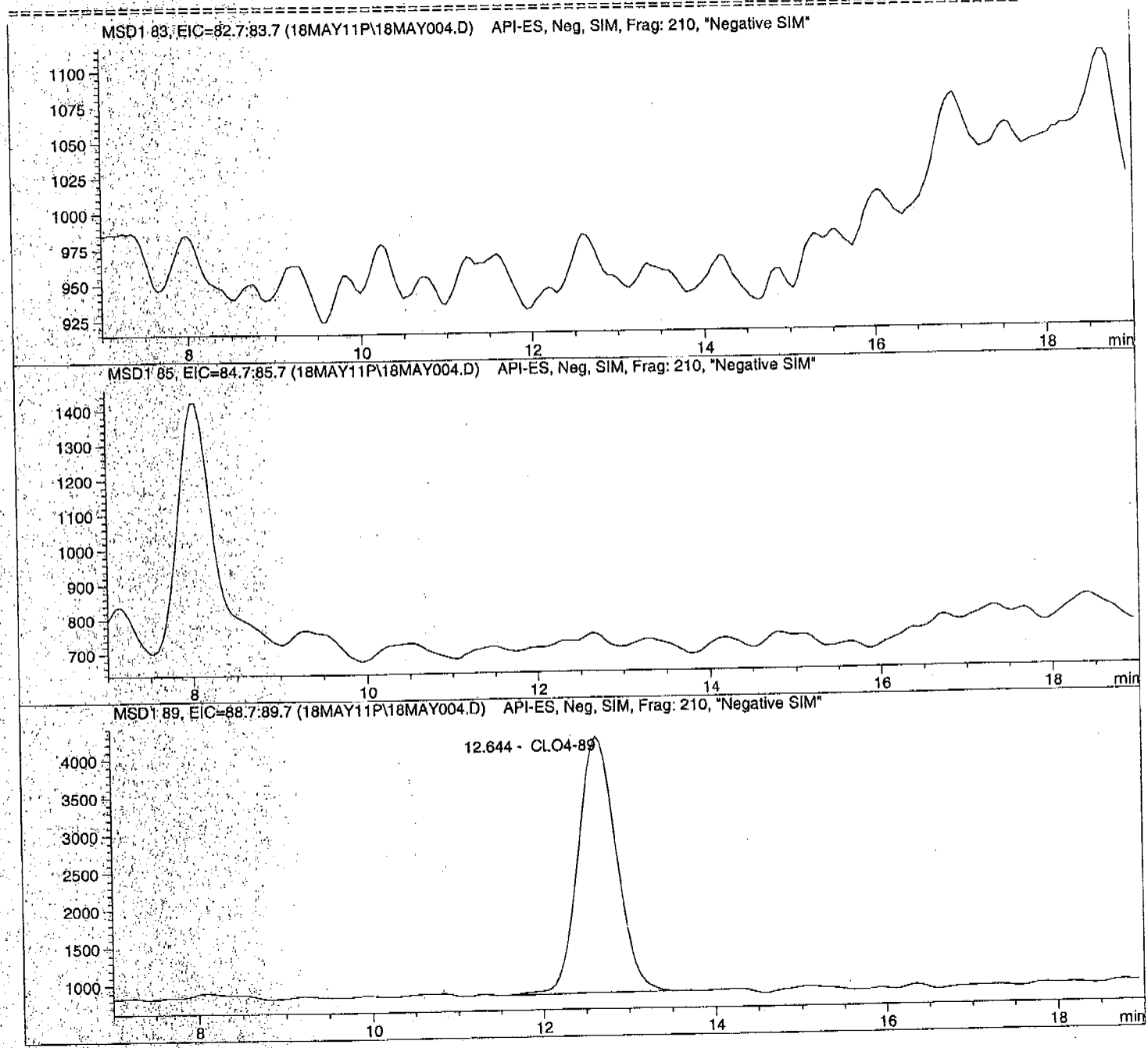
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

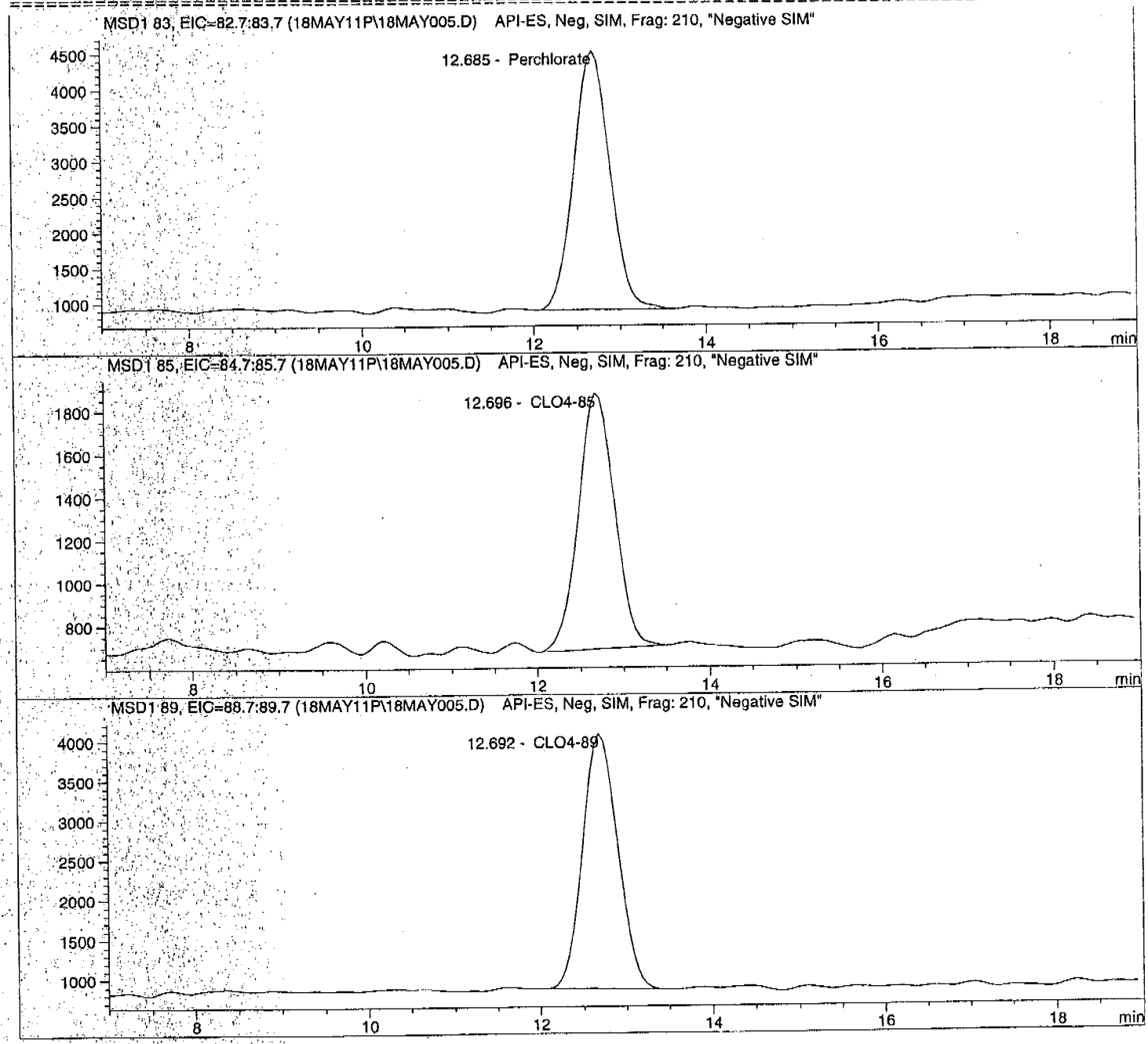
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

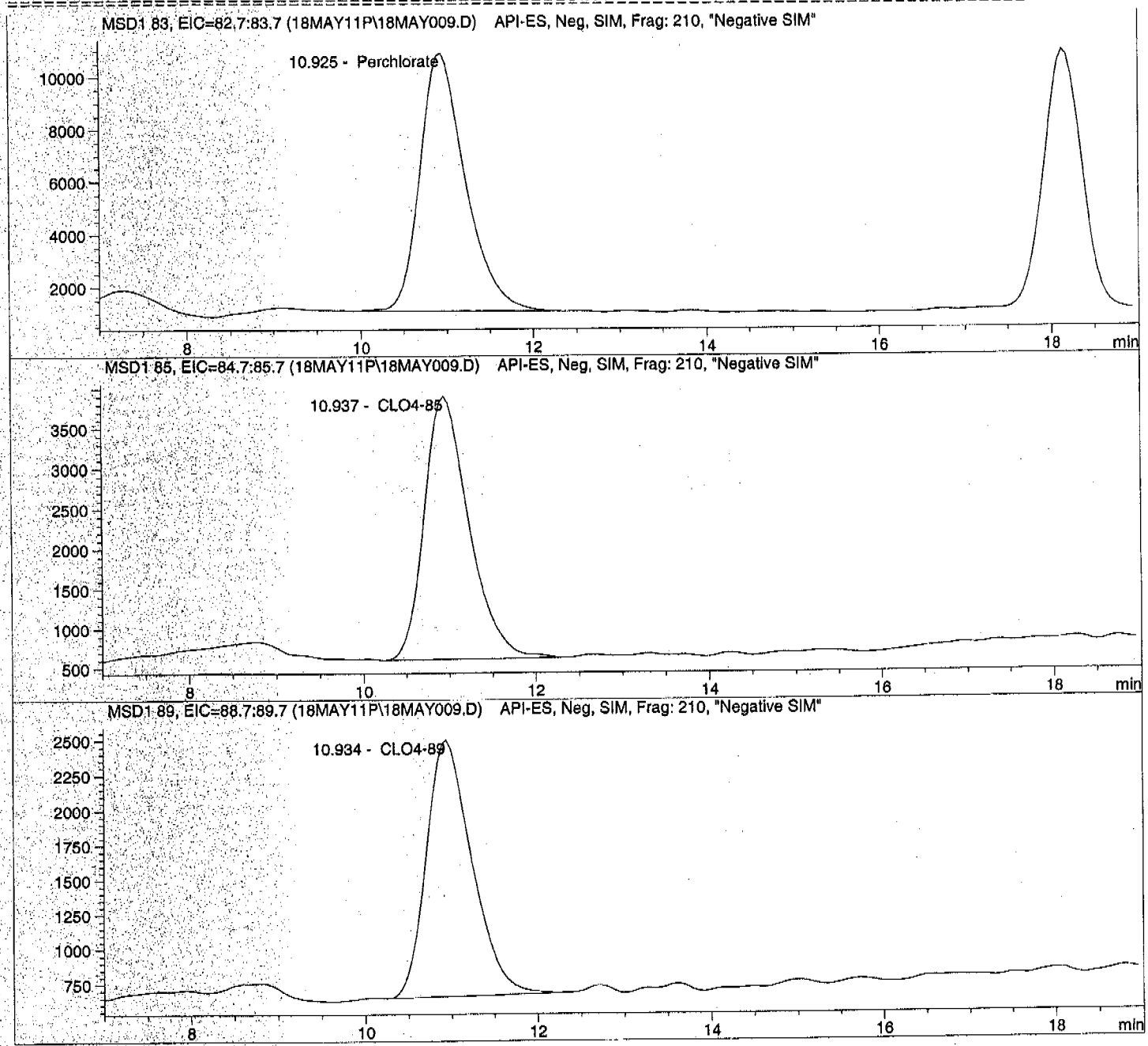
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY009.D Sample Name: 1113713001

Injection Date:	5/18/2011 18:51:30	Seq Line:	9
Sample Name:	1113713001	Location:	Vial 9
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.925	MM	358555.1	19.5730	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.937	MM	118943.4	21.3257	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
10.934	MM	67599.3	5.0000	CLO4-89

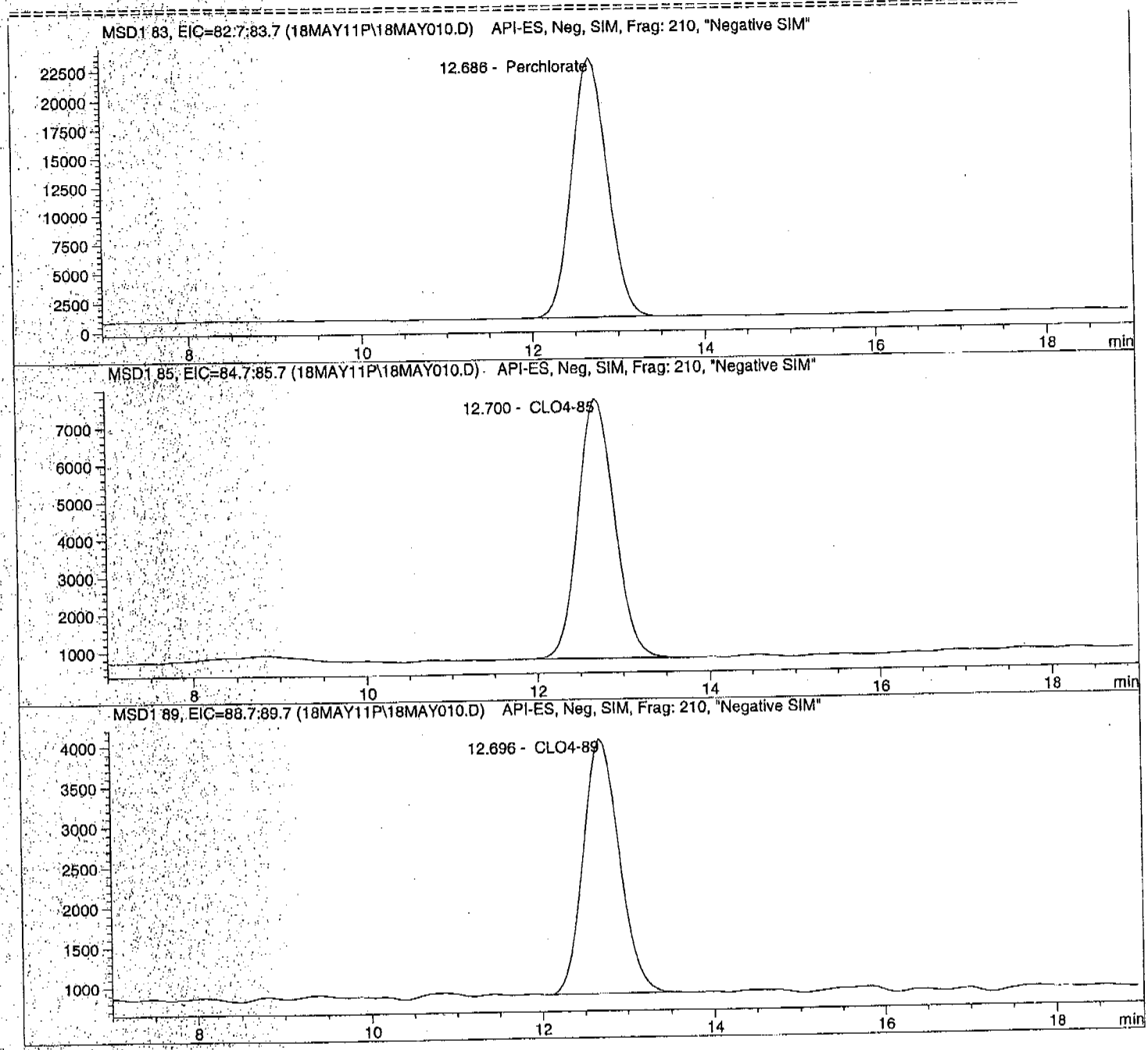
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

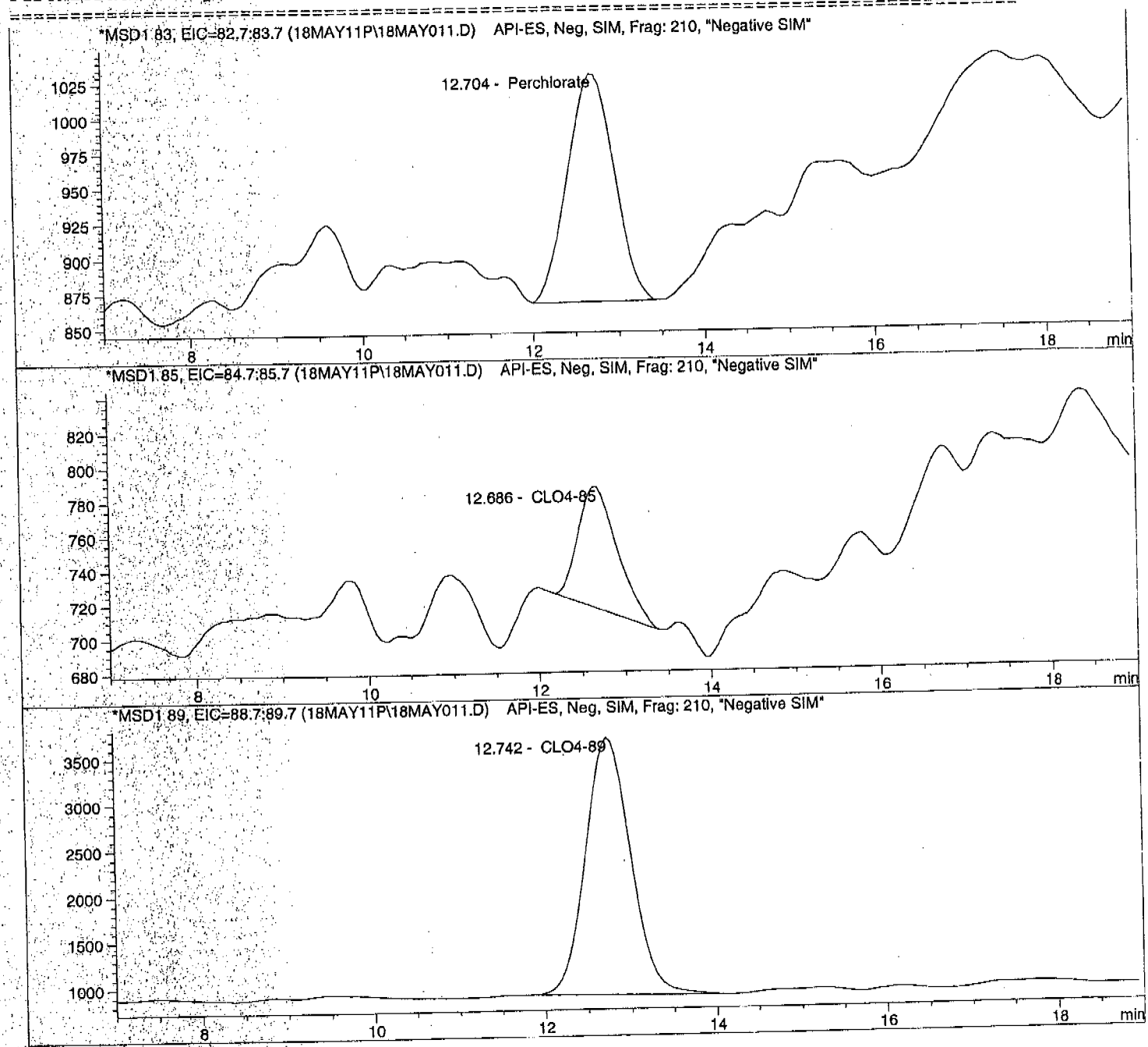
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#	*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
	*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
	*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
	*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
	*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#	*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
	*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
	*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
	*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
	*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85212

#	*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.0000
	*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.0000
	*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.0000
	*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.0000
	*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.0000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

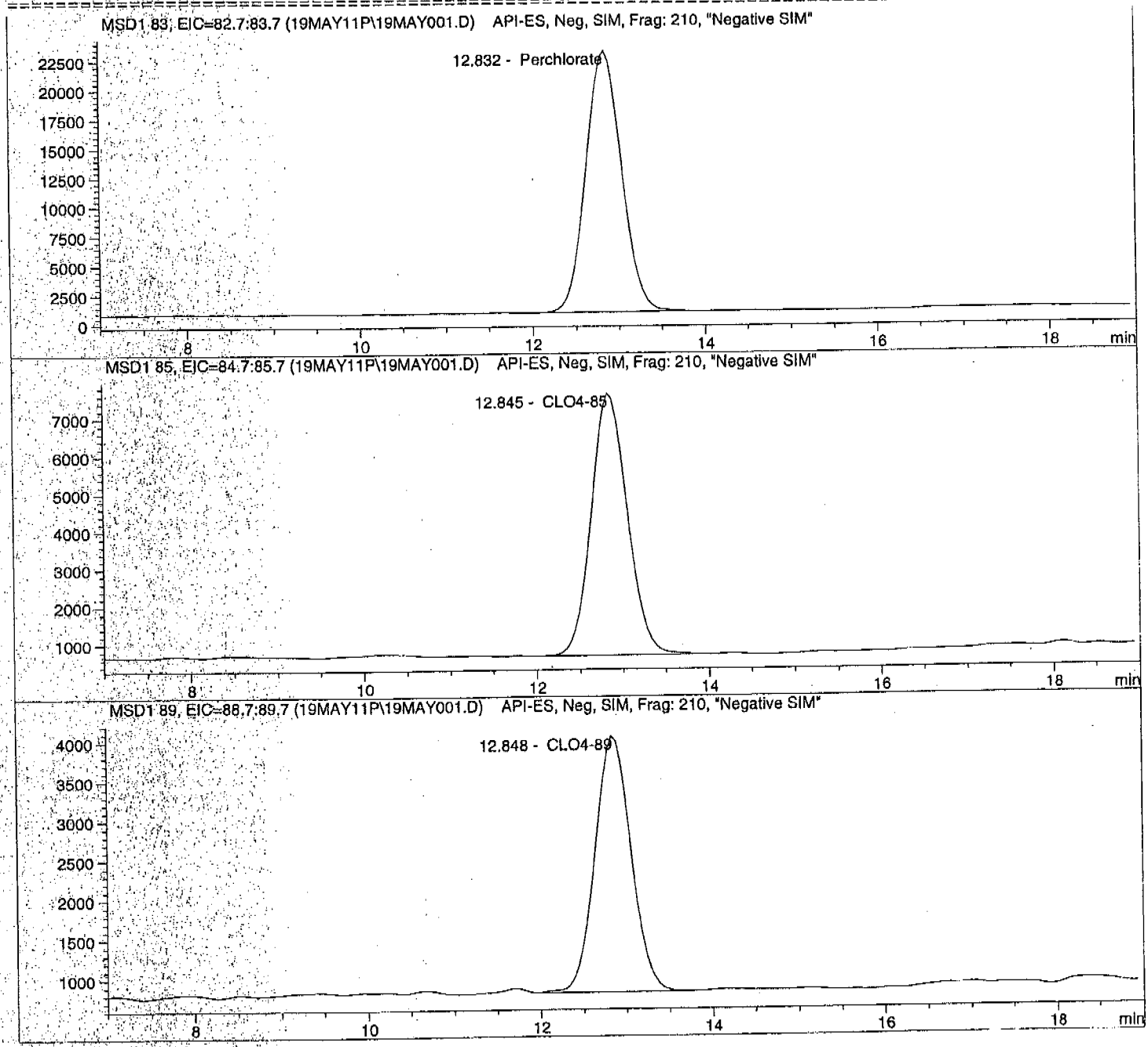
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544	CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001	5X	CLO4-ON	1	Sample		
3	Vial 7	219409	136181S	CLO4-ON	1	Sample		
4	Vial 8	219410	136181D	CLO4-ON	1	Sample		
5	Vial 1	219545	CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date: 5/19/2011 10:27:53 Seq Line: 1
Sample Name: 219544 CCV3 Location: Vial 1
Acq Operator: TNB Inj. No.: 1
Inj. Vol.: 20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

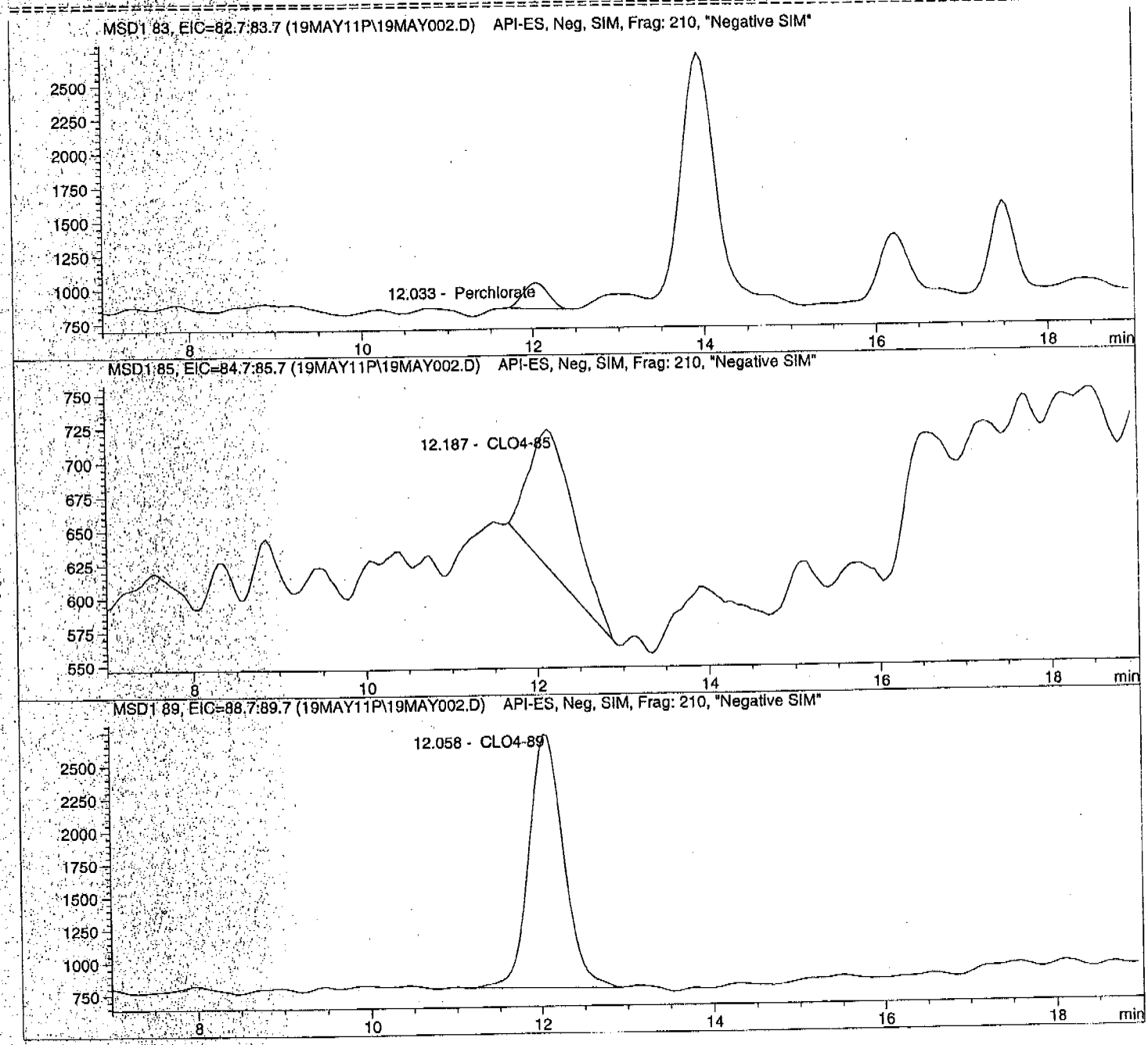
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

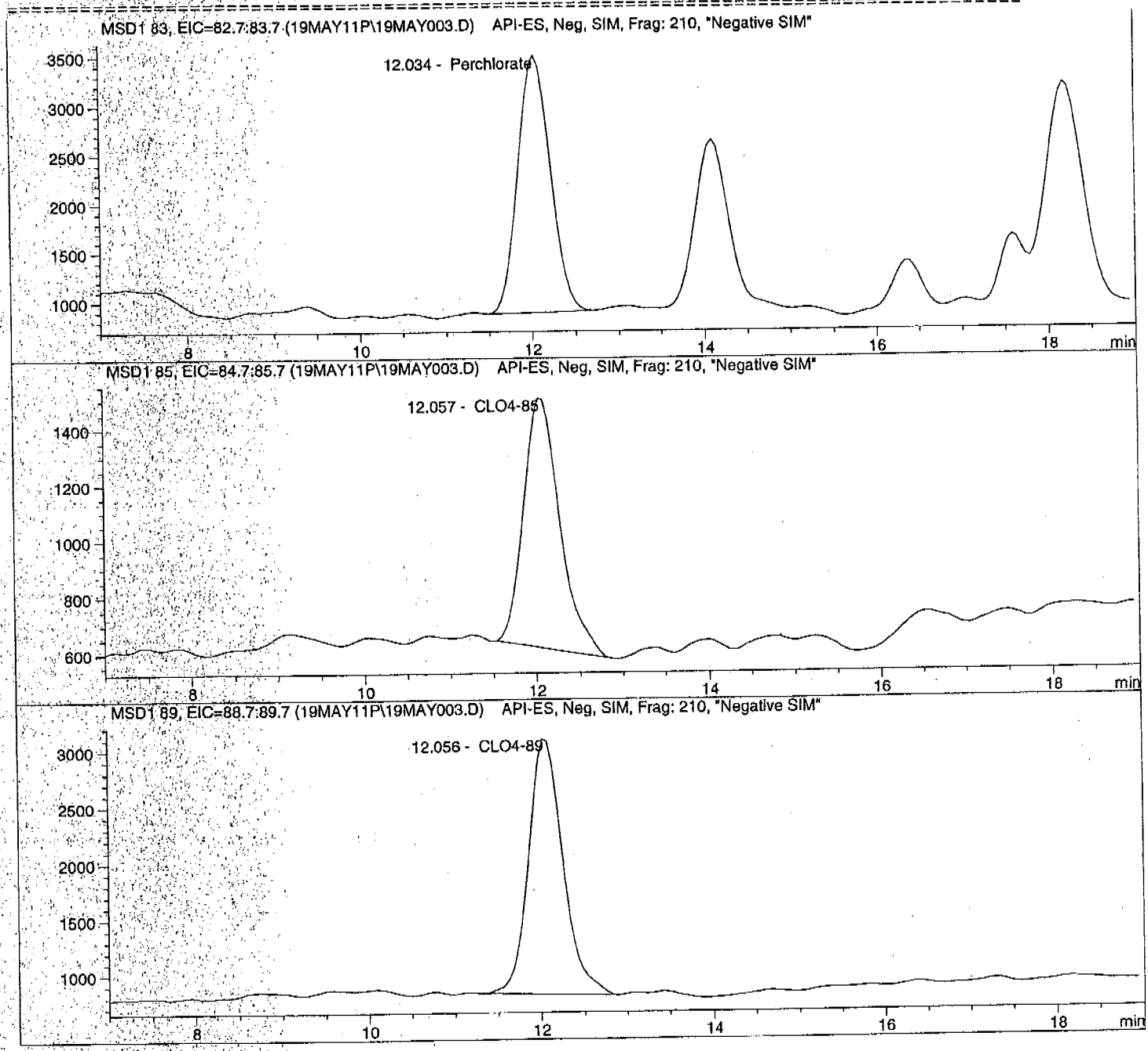
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

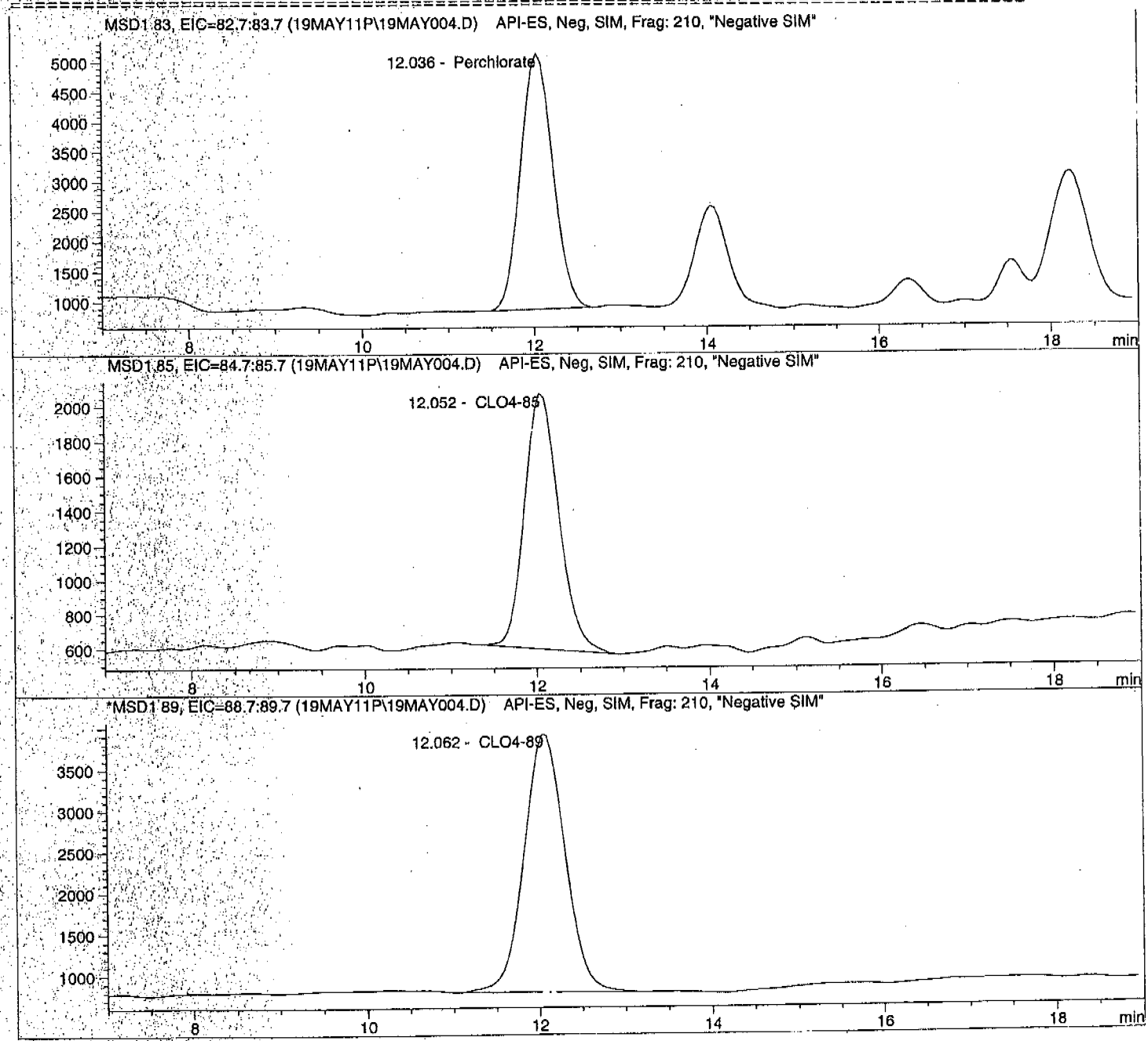
RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

*** End of Report ***

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

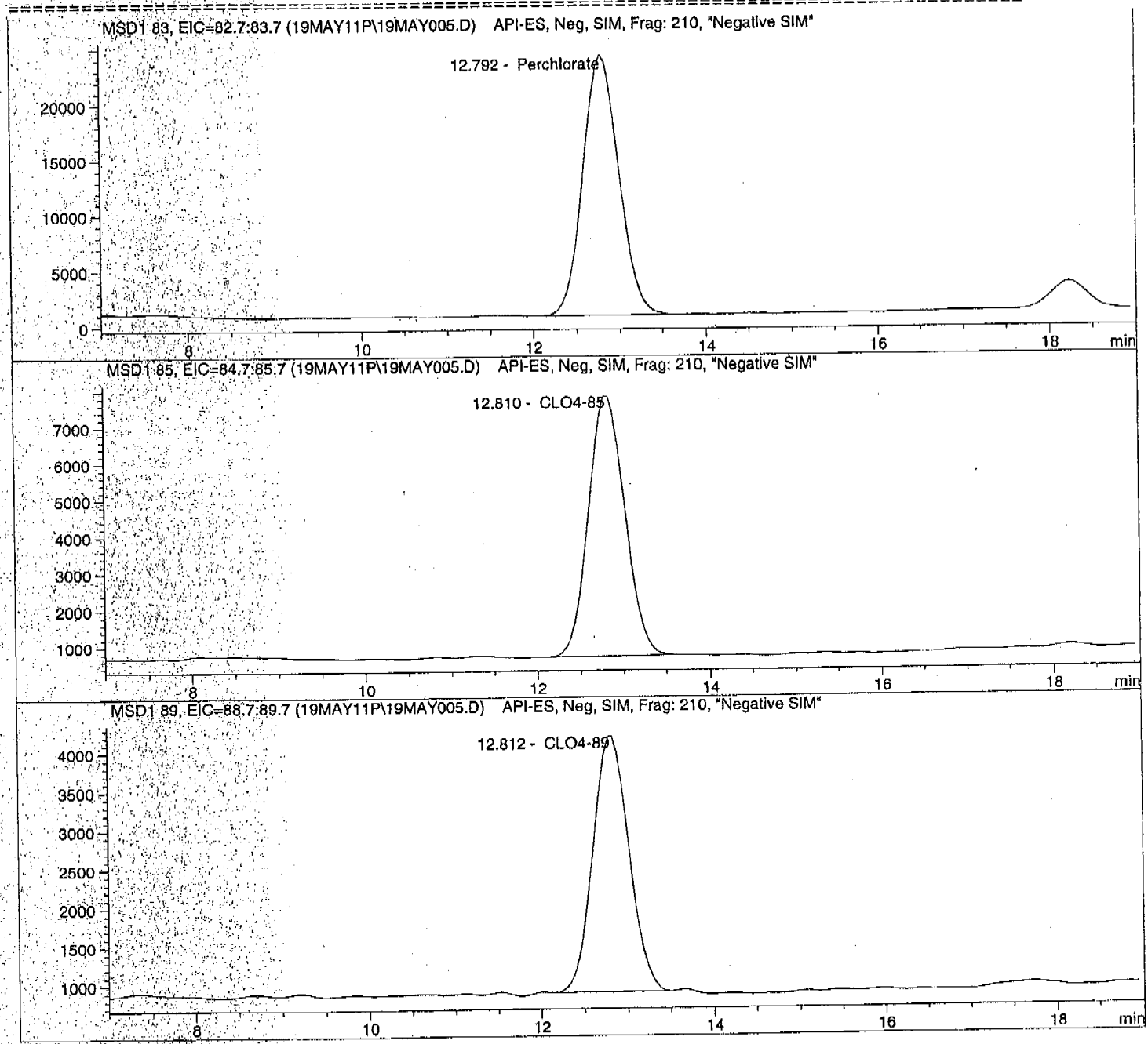
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

ethod C:\HPCHEM\1\METHODS\CLO4OFF1.M

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5	1		Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5	1		CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

ethod C:\HPCHEM\1\METHODS\CLO4OFF1.M

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
- Time Window : From 10.107 min To 18.107 min
- Curve Type : Quadratic
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.25
  - Level 3 : 0.04
  - Level 4 : 0.01
  - Level 5 : 0.0004
  - Level 6 : 0.0001
  - Level 7 : 0.000016
  - Level 8 : 4e-006

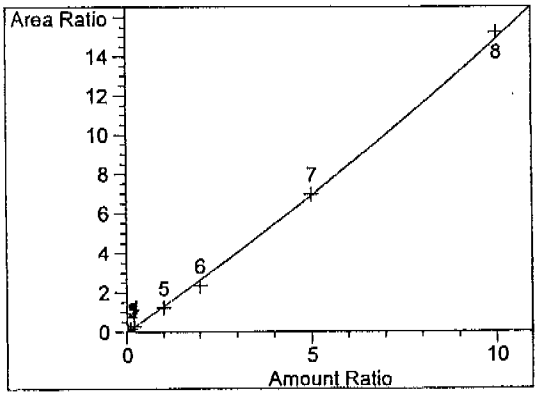
Compound: CLO4-89
- Time Window : From 10.065 min To 18.065 min
- Curve Type : Linear
- Origin : Included
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 1
  - Level 4 : 1
  - Level 5 : 1
  - Level 6 : 1
  - Level 7 : 1
  - Level 8 : 1

Compound: CLO4-85
- Time Window : From 10.121 min To 18.121 min
- Curve Type : Quadratic
- Origin : Ignored
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.5
  - Level 3 : 0.2
  - Level 4 : 0.1
  - Level 5 : 0.02
  - Level 6 : 0.01
  - Level 7 : 0.004
  - Level 8 : 0.002

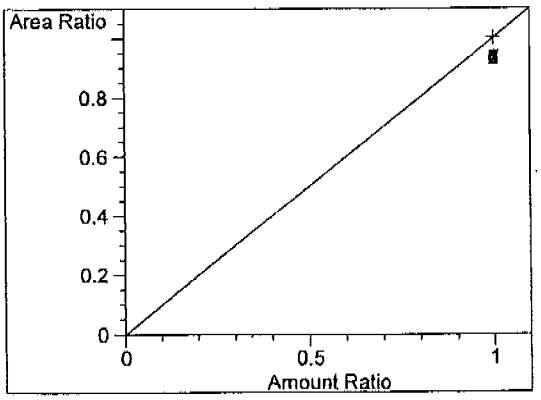
Peak Sum Table

No Entries in table

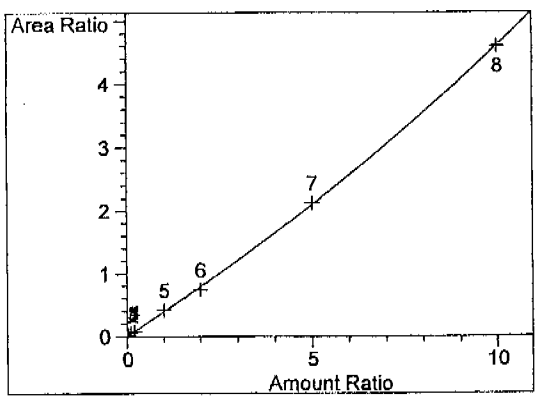
Calibration Curves



Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.25
Level 3 : 0.04
Level 4 : 0.01
Level 5 : 0.0004
Level 6 : 0.0001
Level 7 : 0.000016
Level 8 : 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 1
Level 3 : 1
Level 4 : 1
Level 5 : 1
Level 6 : 1
Level 7 : 1
Level 8 : 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:
Level 1 : 1
Level 2 : 0.5
Level 3 : 0.2
Level 4 : 0.1
Level 5 : 0.02
Level 6 : 0.01
Level 7 : 0.004
Level 8 : 0.002

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\FEB11\28FEB11I.S

Sequence Table:

Method and Injection Info Part:

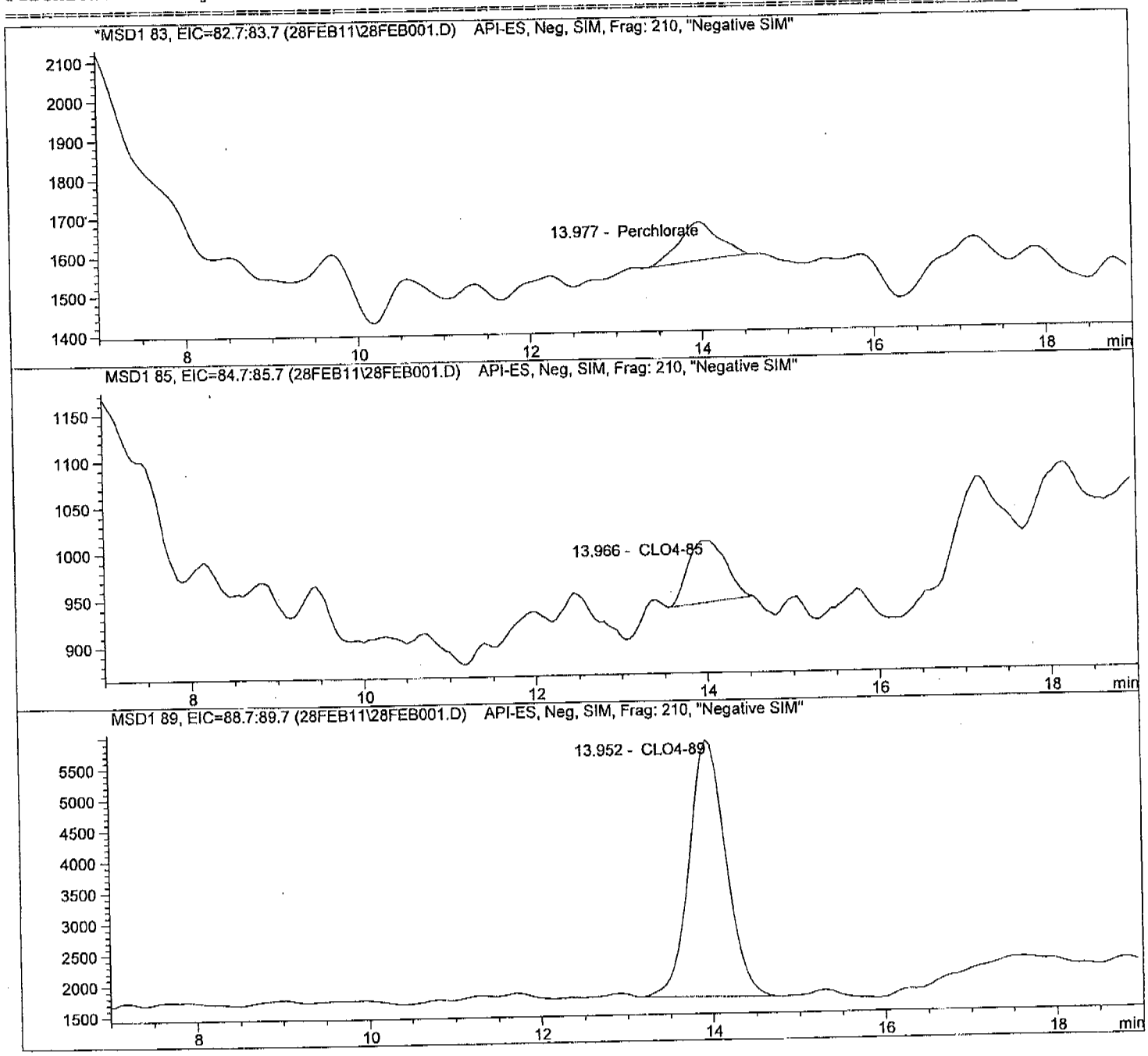
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

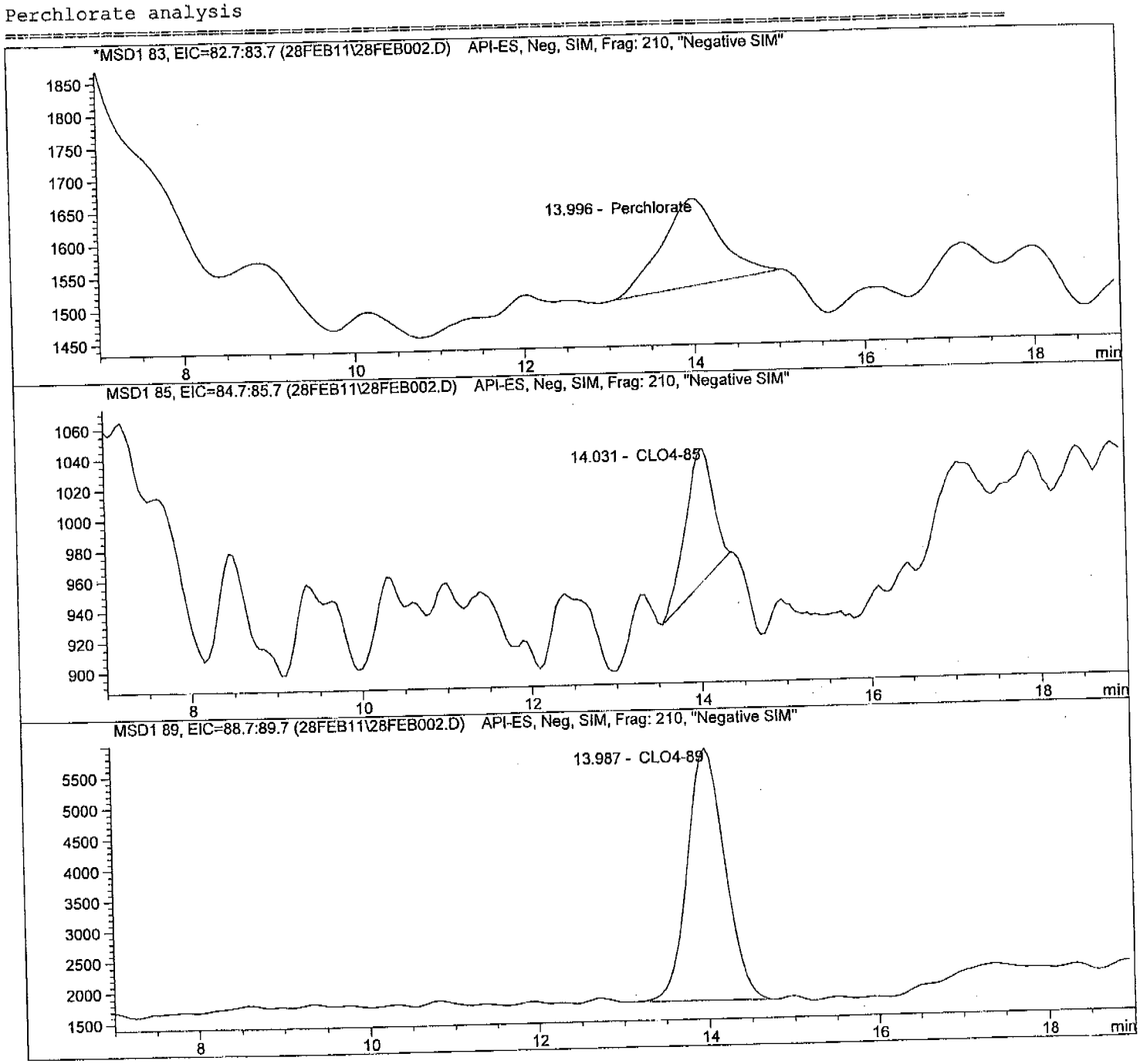
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

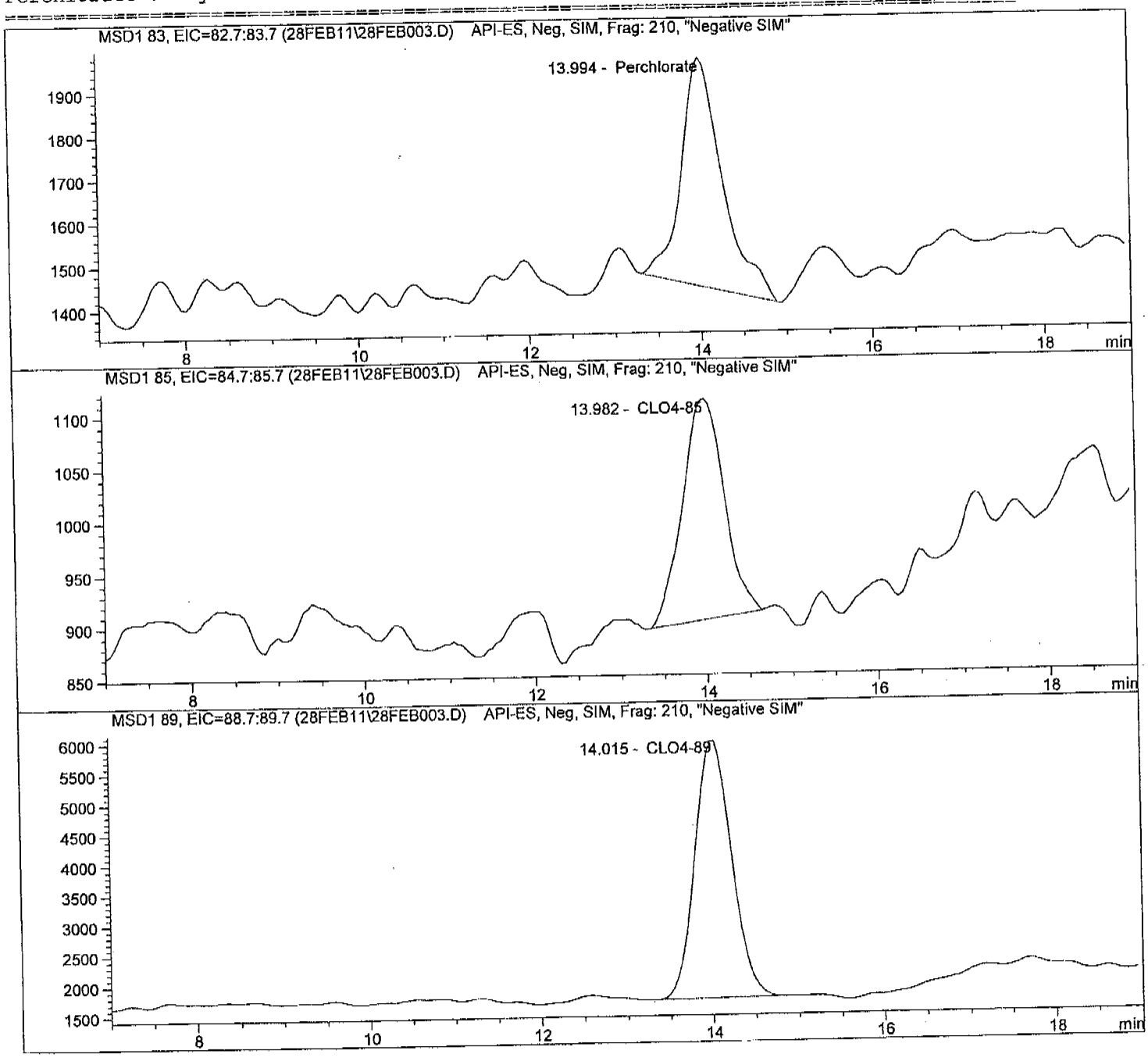
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

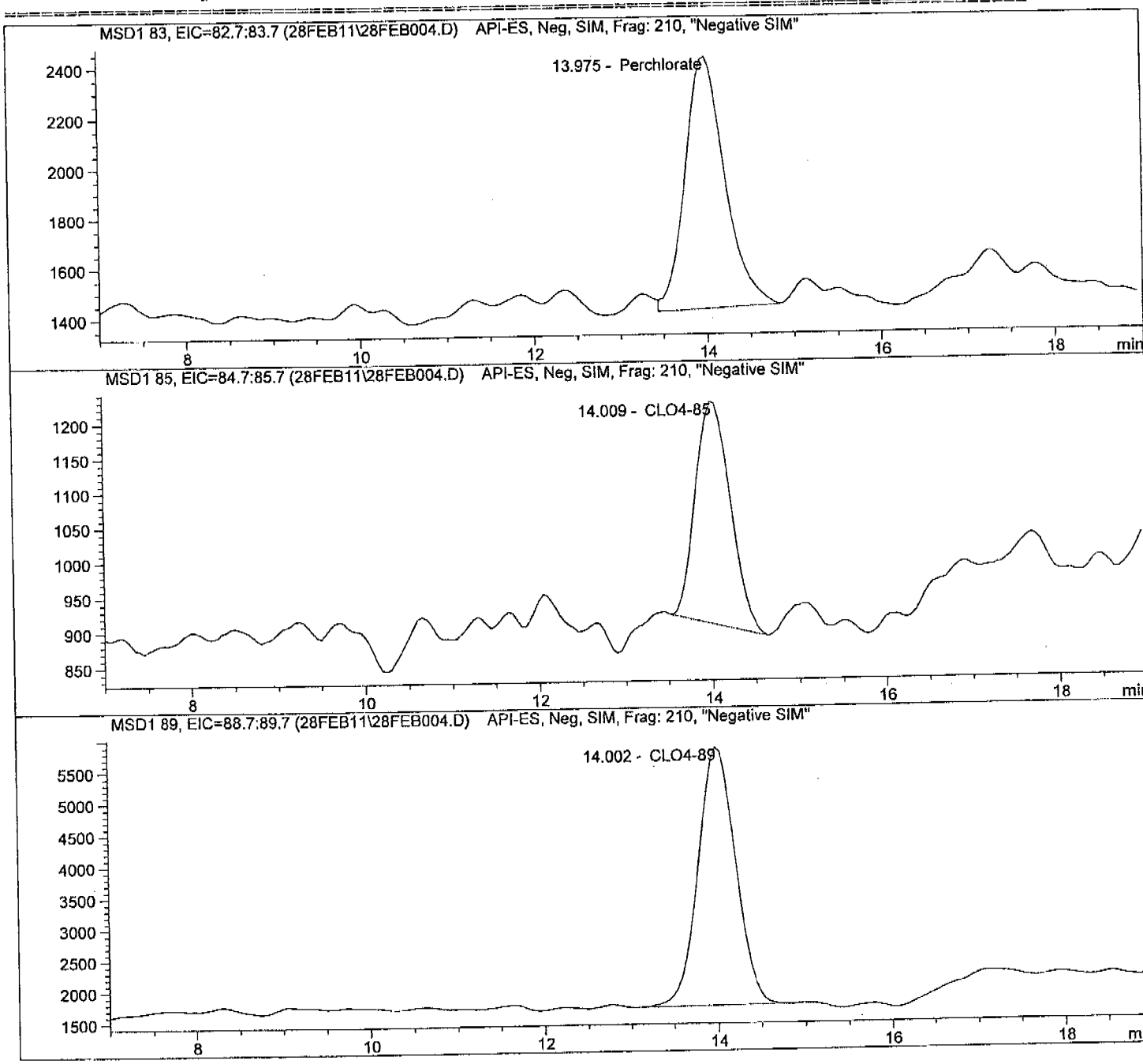
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

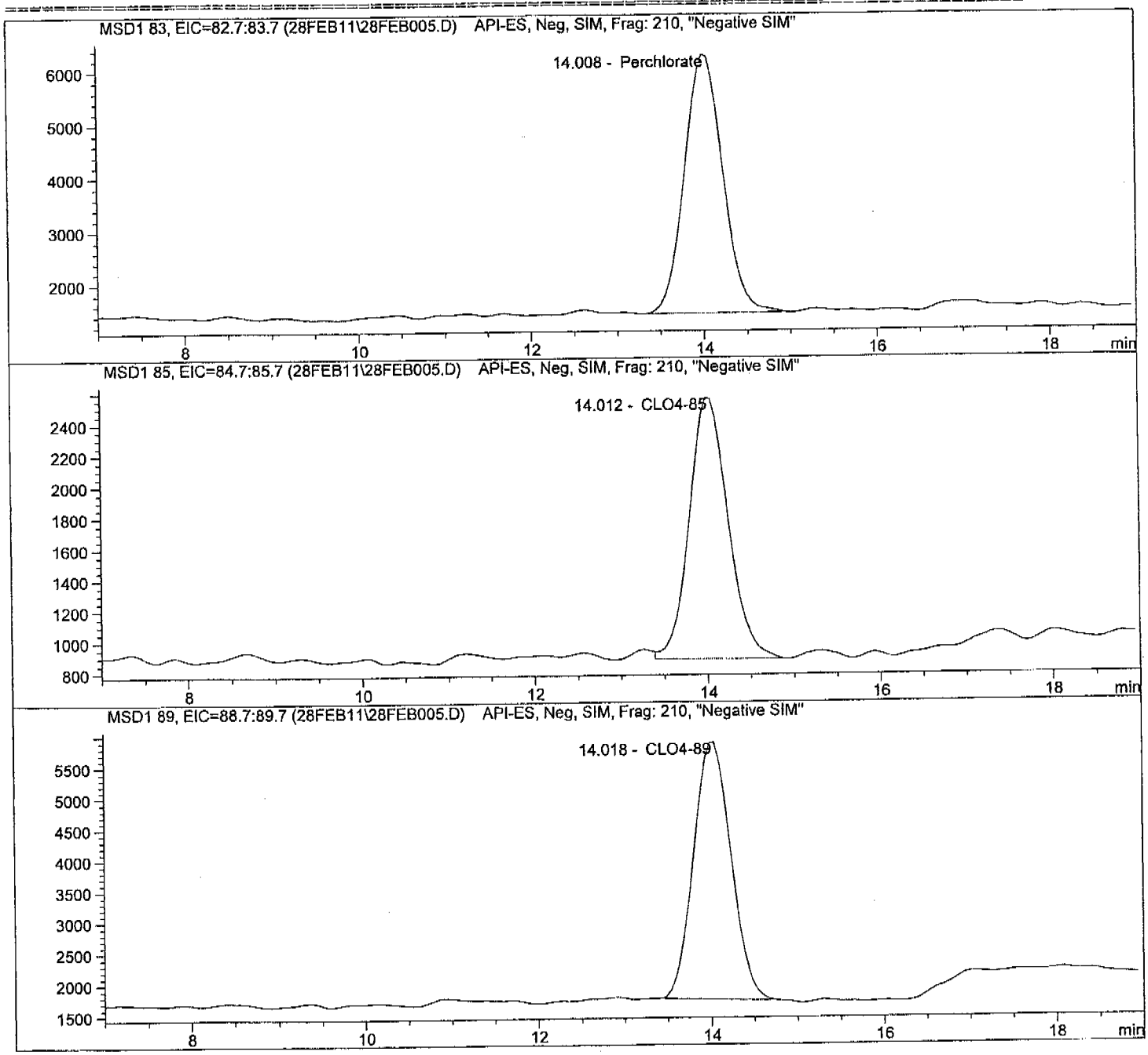
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

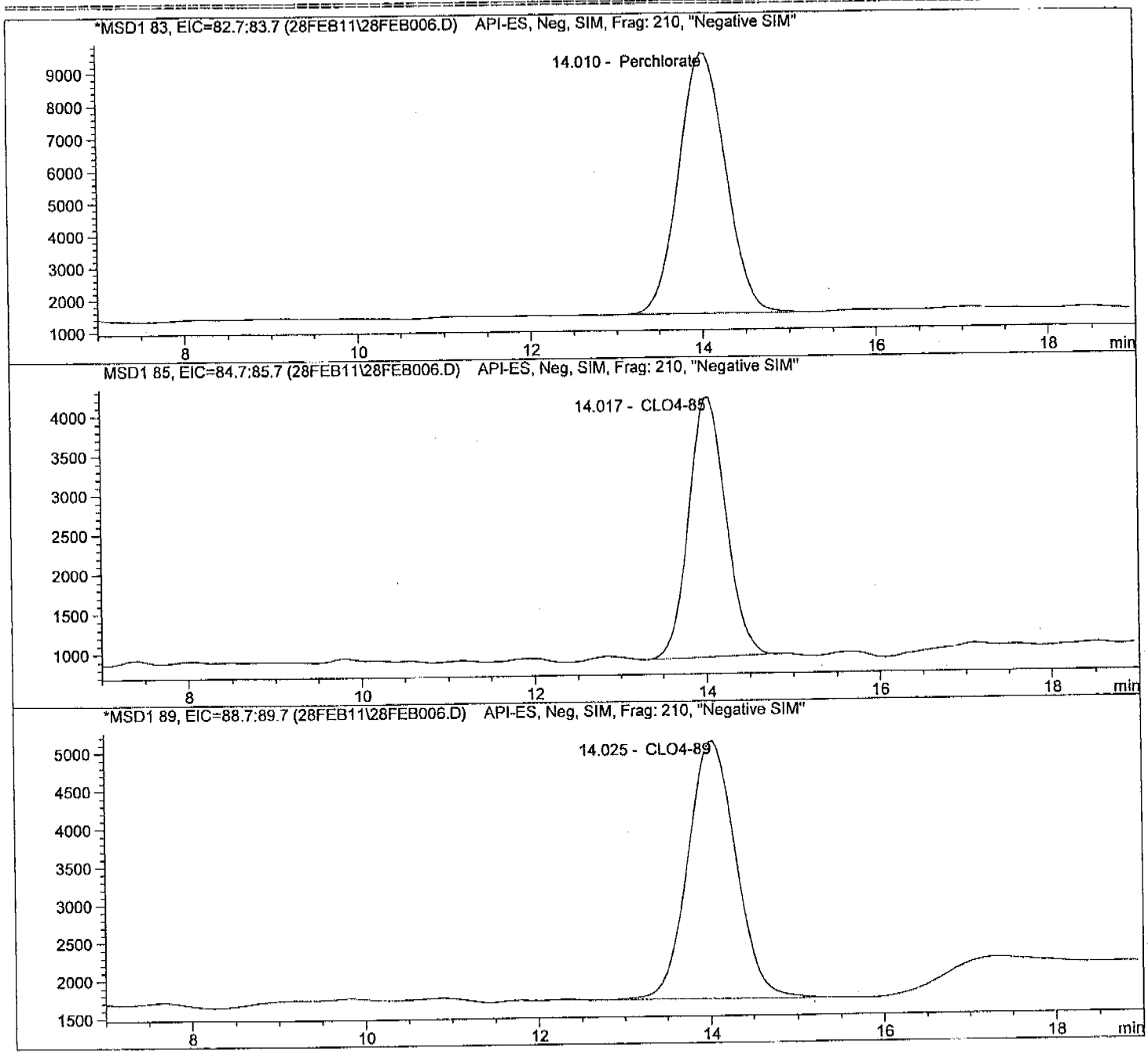
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

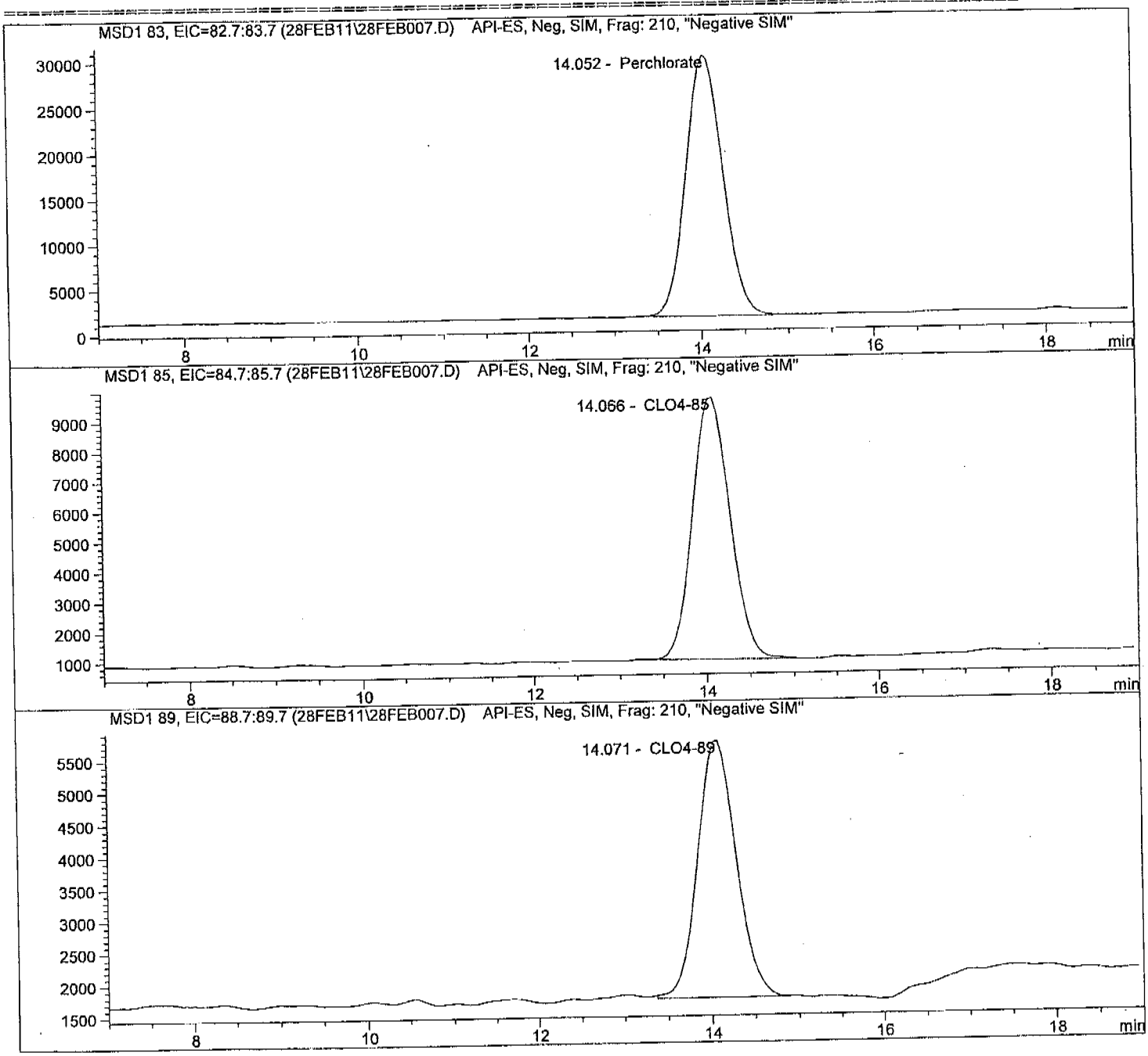
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

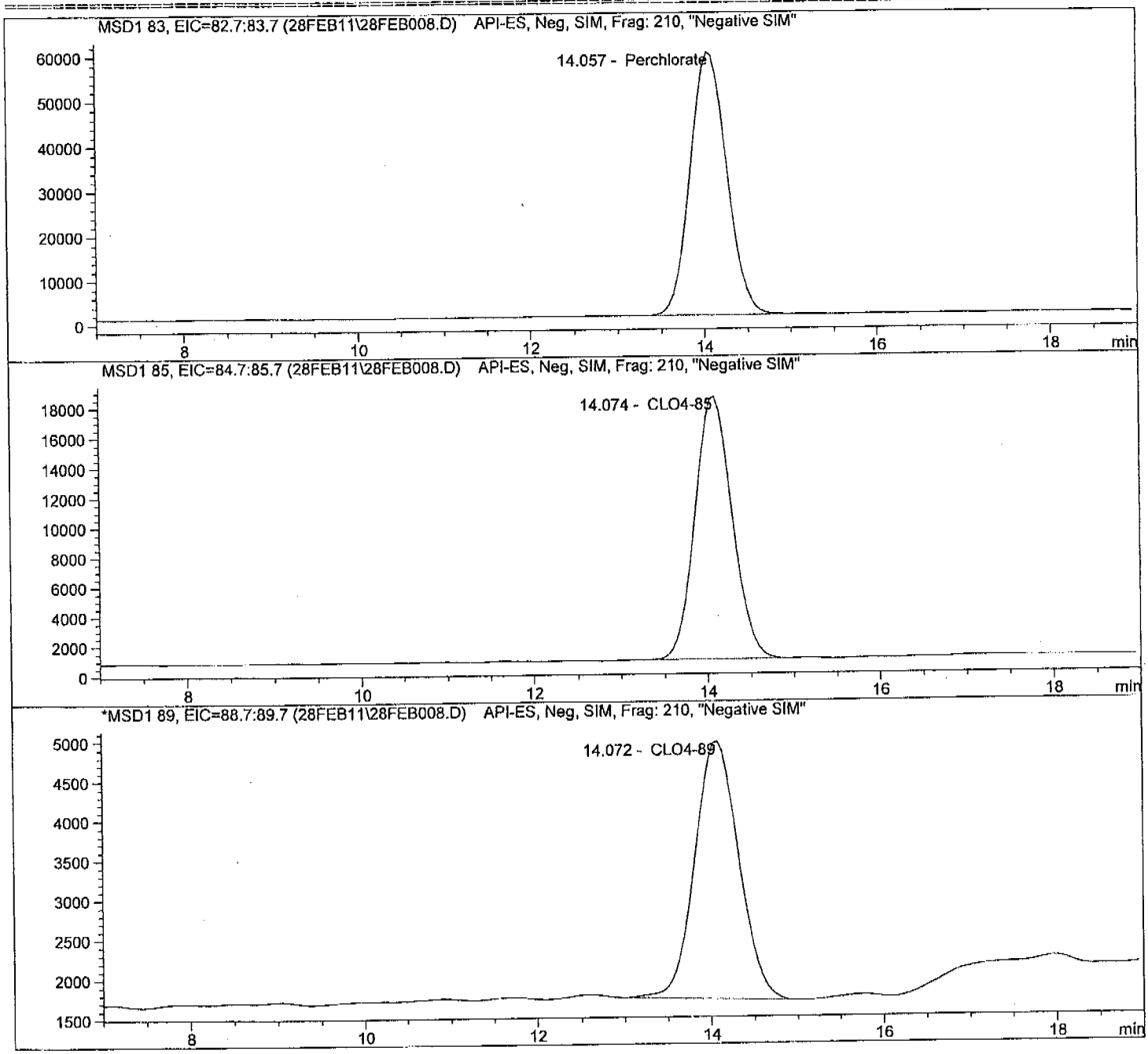
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

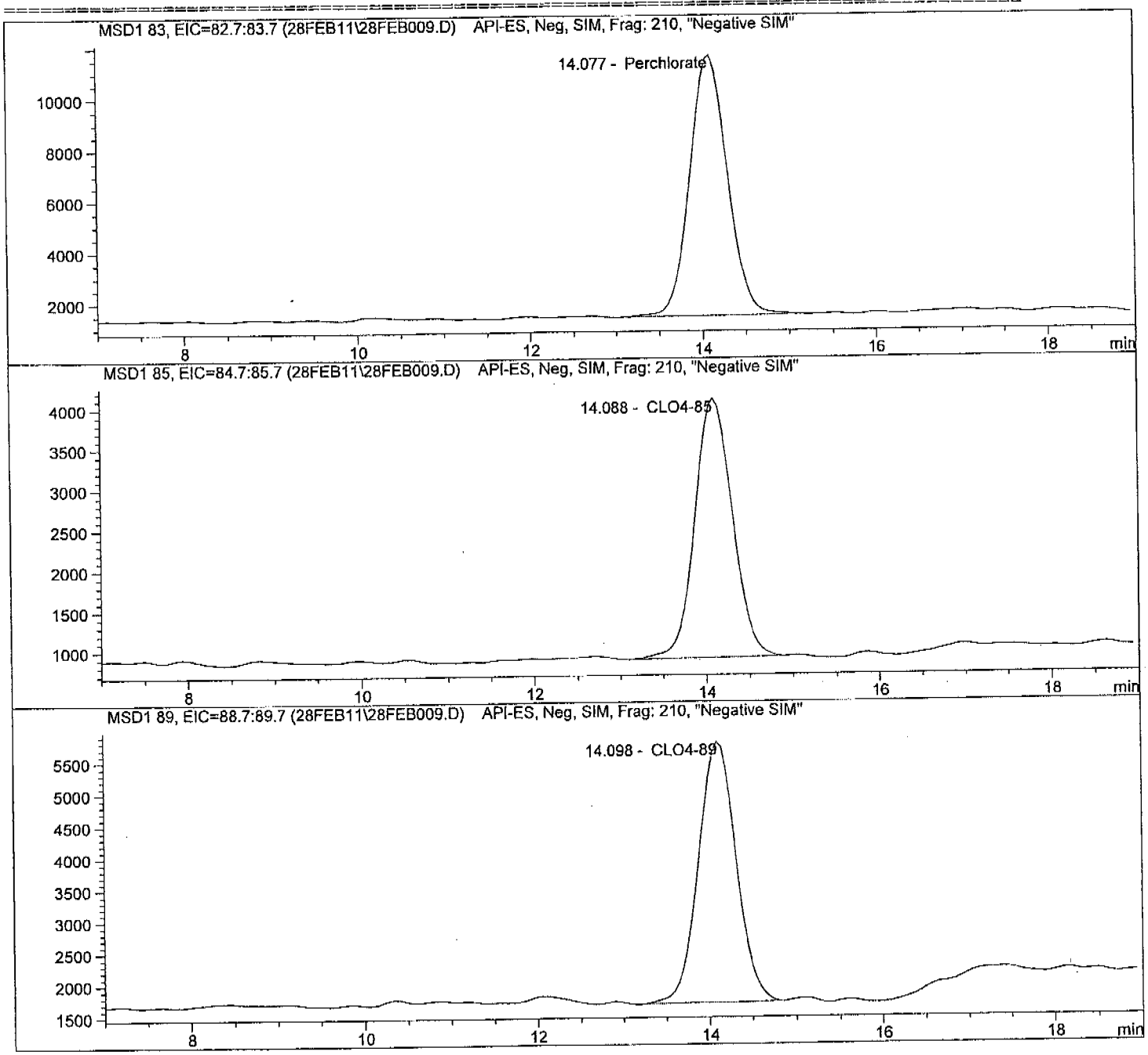
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

Southeast
ACCUTEST LABORATORIES

05/26/11

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F82120

Sampling Date: 05/05/11

Report to:

Trinity Analysis & Development Corp
90 NW Beal Parkway Suite A2
Fort Walton Beach, FL 32548
rbrown@trinityadc.com; jkramer@trinityadc.com;
jbrown@trinityadc.com
ATTN: Jonathan Kramer

Total number of pages in report: **151**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F82120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F82120-1	05/05/11	12:23	BS	05/06/11	AQ	Ground Water	MA02MW001D
F82120-1F	05/05/11	12:23	BS	05/06/11	AQ	Groundwater Filtered	MA02MW001D
F82120-2	05/05/11	00:00	BS	05/06/11	AQ	Trip Blank Water	TB3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job No:** F82120

Site: Melrose Air Force Range, NM **Report Date** 5/26/2011 11:12:22

1 Sample, 1 Trip Blank were collected on 05/05/2011 and received at Accutest on 05/06/2011 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F82120. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3129

- Sample(s) F82144-15MS, F82144-15MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- F82120-1: Sample was not preserved to a pH < 2; reported results are considered minimum values.
- F82120-2: Sample vial(s) contained significant headspace; reported results are considered minimum values.

Extractables by GC By Method SW846 8330A

Matrix: AQ **Batch ID:** OP37125

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) F82243-1MS, F82243-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP20570

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) F82095-5MS, F82095-5MSD, F82095-5PS, F82095-5SDL, F82095-5DUP were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Calcium, Magnesium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Duplicate for Antimony, Cadmium, Cobalt, Nickel, Selenium are outside control limits for sample MP20570-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Barium, Cadmium, Chromium, Cobalt, Copper, Selenium, Zinc are outside control limits for sample MP20570-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP20570-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- MP20570-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.
- MP20570-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.
- MP20570-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP20603

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) F82095-5DUP, F82095-5MS, F82095-5MSD, F82095-5SDL, F82097-9SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

☐ **Matrix:** ☐AQ☐ **Batch ID:** ☐ GP16948

☐ All samples were prepared within the recommended method holding time.

☐ All samples were analyzed within the recommended method holding time.

☐ All method blanks for this batch meet method specific criteria.

☐ Sample(s) F82106-1DUP, F82106-1MS were used as the QC samples for Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

☐ Matrix Spike Recovery(s) for Chloride, Nitrogen, Nitrate, Sulfate are outside control limits. Probable cause due to matrix ☐ interference.

☐ F82120-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry By Method EPA 335.4/SW 9012B

☐ **Matrix:** ☐AQ☐ **Batch ID:** ☐ GP16970

☐ All samples were prepared within the recommended method holding time.

☐ All samples were analyzed within the recommended method holding time.

☐ All method blanks for this batch meet method specific criteria.

☐ Sample(s) F82120-1MS, F82120-1DUP were used as the QC samples for Cyanide, Total.

☐ RPD(s) for Duplicate for Cyanide, Total are outside control limits for sample GP16970-D1. RPD acceptable due to low duplicate ☐ and sample concentrations.

Wet Chemistry By Method SM19 2320B

☐ **Matrix:** ☐AQ☐ **Batch ID:** ☐ GN44543

☐ All samples were analyzed within the recommended method holding time.

☐ All method blanks for this batch meet method specific criteria.

☐ Sample(s) F82161-1DUP, F82161-1MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM19 2540C

☐ **Matrix:** ☐AQ☐ **Batch ID:** ☐ GN44442

☐ All samples were analyzed within the recommended method holding time.

☐ All method blanks for this batch meet method specific criteria.

☐ Sample(s) F82134-2DUP were used as the QC samples for Solids, Total Dissolved.

☐ RPD(s) for Duplicate for Solids, Total Dissolved are outside control limits for sample GN44442-D1. High RPD due to possible ☐ sample nonhomogeneity.

Wet Chemistry By Method SW846 7196A

☐ **Matrix:** ☐AQ☐ **Batch ID:** ☐ GN44401

☐ All method blanks for this batch meet method specific criteria.

☐ Sample(s) F82120-1DUP, F82120-1MS were used as the QC samples for Chromium, Hexavalent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: May 26, 2011

Svetlana Izosimova, QA Officer (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078646.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	16.0	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MA02MW001D
Lab Sample ID: F82120-1
Matrix: AQ - Ground Water
Method: SW846 8330A SW846 3535A
Project: Melrose Air Force Range, NM

Date Sampled: 05/05/11
Date Received: 05/06/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB027980.D	1	05/12/11	SL	05/12/11	OP37125	GBB585
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.21	0.084	ug/l	
121-82-4	RDX	ND	0.21	0.084	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.21	0.10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.21	0.084	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.21	0.084	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.21	0.086	ug/l	
98-95-3	Nitrobenzene	ND	0.21	0.088	ug/l	
88-72-2	o-Nitrotoluene	ND	0.21	0.084	ug/l	
99-08-1	m-Nitrotoluene	ND	0.21	0.084	ug/l	
99-99-0	p-Nitrotoluene	ND	0.21	0.084	ug/l	
479-45-8	Tetryl	ND	0.21	0.084	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.21	0.084	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.21	0.084	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MA02MW001D
Lab Sample ID: F82120-1
Matrix: AQ - Ground Water
Project: Melrose Air Force Range, NM

Date Sampled: 05/05/11
Date Received: 05/06/11
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	129000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	211	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	73400	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	245	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	102	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	2170000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	121	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02MW001D		
Lab Sample ID:	F82120-1	**Date Sampled:**	05/05/11
Matrix:	AQ - Ground Water	**Date Received:**	05/06/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	133	5.0	mg/l	1	05/17/11	LE	SM19 2320B
Chloride	2010	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	05/06/11 13:30	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	05/11/11 14:35	TC	EPA 335.4/SW 9012B
Nitrogen, Nitrate	11.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Nitrogen, Nitrite [a]	< 5.0	5.0	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A
Solids, Total Dissolved	501	100	mg/l	1	05/10/11 15:50	CP	SM19 2540C
Sulfate	2020	100	mg/l	50	05/06/11 13:08	LT	EPA 300/SW846 9056A

(a) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID: MA02MW001D
Lab Sample ID: F82120-1F
Matrix: AQ - Groundwater Filtered
Project: Melrose Air Force Range, NM

Date Sampled: 05/05/11
Date Received: 05/06/11
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	124000	1000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	101	25	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	72200	5000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	204	15	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	05/19/11	05/19/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Selenium	108	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1990000	400000	ug/l	40	05/13/11	05/16/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	115	20	ug/l	1	05/13/11	05/13/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA8946
(2) Instrument QC Batch: MA8948
(3) Instrument QC Batch: MA8955
(4) Prep QC Batch: MP20570
(5) Prep QC Batch: MP20603

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C078647.D	1	05/19/11	AJ	n/a	n/a	VC3129
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB3		
Lab Sample ID:	F82120-2	**Date Sampled:**	05/05/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F82120 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Trinity ADC
Address: 90 NW Beal Pkwy Suite A2
City: Fort Walton Beach State: FL Zip: 32548
Project Contact: J. Kramer E-mail: JKramer@trinity-adc.com
Phone#: 850-243-0072
Sampler(s) Name(s) (Printed): B. Stewart S. Kramer

Project Information

Project Name:
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Container Information	Total Metals	Dissolved Metals	CrVI	Cyanide	Perchlorate	Cl/SO4/NO3/NO2	ALKT/TS	VOC	Explosives	LAB USE ONLY
1	MA02MW0010	5/5/11	1203	BS	GW	11	HNO3 X, H2SO4 X	X	X	X	X	X	X	X	X	X	
2	TB3	5/5/11	9:26			3											

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	5/5/11 1500	2 FX	3 FX	5-6-11	4 J. Kramer (1/512) 09:30
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.0

4.1 4

F82120: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F82120 CLIENT: TRINITY ADE PROJECT: ?

DATE/TIME RECEIVED: 5-6-11 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8755 6122 7473

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: NO PROJECT NAME on COC

TECHNICIAN SIGNATURE/DATE: 5-6-11 REVIEWER SIGNATURE/DATE: 05/06/11

NF 12/10 receipt confirmation 122910.xls

Job Change Order: F82120_5/9/2011

Requested Date:	5/9/2011	**Received Date:**	5/6/2011
Account Name:	Trinity Analysis & Development	**Due Date:**	5/20/2011
Project Description:	Melrose Air Force Range, NM	**Deliverable:**	REDT1
CSR:	SB	**TAT (Days):**	14

Sample #:
F82120-1

MA02MW001D

Change: Per quote this is to be logged in for MTAL, where COC says Total Metals. V8260TCL, where COC says VOC, 8330A, where COC says Explosives. TDS where COC says TS.

Above Changes Quote **Date:** 5/9/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F82120: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3129-MB	C078645.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

Method Blank Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3129-MB	C078645.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	107%	84-120%

Blank Spike Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3129-BS	C078644.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	118	94	59-134
71-43-2	Benzene	25	24.7	99	83-124
75-27-4	Bromodichloromethane	25	25.3	101	76-116
75-25-2	Bromoform	25	23.1	92	68-128
108-90-7	Chlorobenzene	25	24.2	97	87-115
75-00-3	Chloroethane	25	32.4	130	54-166
67-66-3	Chloroform	25	25.8	103	85-123
75-15-0	Carbon disulfide	25	30.1	120	67-147
56-23-5	Carbon tetrachloride	25	27.6	110	74-139
75-34-3	1,1-Dichloroethane	25	26.2	105	82-127
75-35-4	1,1-Dichloroethylene	25	31.0	124	75-133
107-06-2	1,2-Dichloroethane	25	26.9	108	76-122
78-87-5	1,2-Dichloropropane	25	24.3	97	81-120
124-48-1	Dibromochloromethane	25	23.7	95	74-116
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	83-119
156-60-5	trans-1,2-Dichloroethylene	25	27.8	111	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	87-123
100-41-4	Ethylbenzene	25	24.7	99	87-118
591-78-6	2-Hexanone	125	118	94	58-125
108-10-1	4-Methyl-2-pentanone	125	119	95	62-125
74-83-9	Methyl bromide	25	30.8	123	55-151
74-87-3	Methyl chloride	25	31.3	125	55-173
75-09-2	Methylene chloride	25	26.4	106	69-125
78-93-3	Methyl ethyl ketone	125	120	96	61-127
100-42-5	Styrene	25	25.1	100	78-118
71-55-6	1,1,1-Trichloroethane	25	27.8	111	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	21.6	86	71-120
79-00-5	1,1,2-Trichloroethane	25	22.1	88	80-114
127-18-4	Tetrachloroethylene	25	24.7	99	80-131
108-88-3	Toluene	25	24.2	97	86-116
79-01-6	Trichloroethylene	25	24.9	100	85-124
75-01-4	Vinyl chloride	25	26.0	104	57-153
1330-20-7	Xylene (total)	75	76.6	102	86-120

Blank Spike Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3129-BS	C078644.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F82144-15MS	C078656.D	1	05/19/11	AJ	n/a	n/a	VC3129
F82144-15MSD	C078657.D	1	05/19/11	AJ	n/a	n/a	VC3129
F82144-15	C078654.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Compound	F82144-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	102	82	99.1	79	3	59-134/14
71-43-2	Benzene	1.0 U		25	24.4	98	22.8	91	7	83-124/11
75-27-4	Bromodichloromethane	1.0 U		25	27.3	109	25.3	101	8	76-116/10
75-25-2	Bromoform	1.0 U		25	23.9	96	22.7	91	5	68-128/11
108-90-7	Chlorobenzene	1.0 U		25	23.8	95	22.8	91	4	87-115/9
75-00-3	Chloroethane	2.0 U		25	29.4	118	33.3	133	12	54-166/20
67-66-3	Chloroform	1.0 U		25	27.3	109	25.3	101	8	85-123/10
75-15-0	Carbon disulfide	2.0 U		25	27.8	111	28.0	112	1	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	30.1	120	27.9	112	8	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	26.8	107	24.8	99	8	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	30.6	122	30.2	121	1	75-133/13
107-06-2	1,2-Dichloroethane	1.0 U		25	29.9	120	28.2	113	6	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	23.9	96	22.5	90	6	81-120/11
124-48-1	Dibromochloromethane	1.0 U		25	23.9	96	22.8	91	5	74-116/11
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	23.8	95	22.4	90	6	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	24.6	98	23.6	94	4	83-119/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	29.0	116	26.9	108	8	82-126/10
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	27.8	111	26.8	107	4	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	25.0	100	24.0	96	4	87-118/10
591-78-6	2-Hexanone	10 U		125	116	93	112	90	4	58-125/14
108-10-1	4-Methyl-2-pentanone	5.0 U		125	124	99	118	94	5	62-125/13
74-83-9	Methyl bromide	2.0 U		25	28.6	114	31.6	126	10	55-151/21
74-87-3	Methyl chloride	2.0 U		25	24.5	98	29.4	118	18	55-173/22
75-09-2	Methylene chloride	5.0 U		25	26.8	107	25.8	103	4	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	120	96	111	89	8	61-127/13
100-42-5	Styrene	1.0 U		25	24.6	98	23.7	95	4	78-118/11
71-55-6	1,1,1-Trichloroethane	1.0 U		25	30.1	120	27.9	112	8	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	21.2	85	20.6	82	3	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	22.1	88	20.8	83	6	80-114/11
127-18-4	Tetrachloroethylene	1.0 U		25	23.9	96	23.4	94	2	80-131/12
108-88-3	Toluene	0.27	J	25	23.8	94	22.8	90	4	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	25.7	103	24.2	97	6	85-124/10
75-01-4	Vinyl chloride	1.0 U		25	20.5	82	25.3	101	21	57-153/22
1330-20-7	Xylene (total)	3.0 U		75	78.4	105	74.1	99	6	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F82144-15MS	C078656.D	1	05/19/11	AJ	n/a	n/a	VC3129
F82144-15MSD	C078657.D	1	05/19/11	AJ	n/a	n/a	VC3129
F82144-15	C078654.D	1	05/19/11	AJ	n/a	n/a	VC3129

The QC reported here applies to the following samples: **Method:** SW846 8260B

F82120-1, F82120-2

CAS No.	Surrogate Recoveries	MS	MSD	F82144-15	Limits
1868-53-7	Dibromofluoromethane	108%	108%	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	125%	122%	121%	76-127%
2037-26-5	Toluene-D8	98%	98%	103%	86-112%
460-00-4	4-Bromofluorobenzene	100%	99%	109%	84-120%

Instrument Performance Check (BFB)

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: VC3128-BFB
Lab File ID: C078610.D
Instrument ID: GCMSC
Injection Date: 05/18/11
Injection Time: 10:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12885	19.4		Pass
75	30.0 - 60.0% of mass 95	34856	52.6		Pass
95	Base peak, 100% relative abundance	66314	100.0		Pass
96	5.0 - 9.0% of mass 95	4560	6.88		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	55093	83.1		Pass
175	5.0 - 9.0% of mass 174	4297	6.48	(7.80) [a]	Pass
176	95.0 - 101.0% of mass 174	53898	81.3	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4053	6.11	(7.52) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC3128-IC3128	C078611.D	05/18/11	10:34	00:25	Initial cal 1
VC3128-IC3128	C078612.D	05/18/11	10:58	00:49	Initial cal 2
VC3128-IC3128	C078613.D	05/18/11	11:23	01:14	Initial cal 3
VC3128-ICC3128	C078614.D	05/18/11	11:48	01:39	Initial cal 4
VC3128-IC3128	C078615.D	05/18/11	12:12	02:03	Initial cal 5
VC3128-IC3128	C078616.D	05/18/11	12:37	02:28	Initial cal 6
VC3128-ICV3128	C078617.D	05/18/11	13:02	02:53	Initial cal verification 4
VC3128-BS	C078618.D	05/18/11	13:29	03:20	Blank Spike
VC3128-MB	C078620.D	05/18/11	14:19	04:10	Method Blank
ZZZZZZ	C078621.D	05/18/11	14:43	04:34	(unrelated sample)
ZZZZZZ	C078622.D	05/18/11	15:08	04:59	(unrelated sample)
ZZZZZZ	C078623.D	05/18/11	15:33	05:24	(unrelated sample)
ZZZZZZ	C078624.D	05/18/11	15:58	05:49	(unrelated sample)
ZZZZZZ	C078625.D	05/18/11	16:23	06:14	(unrelated sample)
ZZZZZZ	C078626.D	05/18/11	16:48	06:39	(unrelated sample)
F82097-16	C078627.D	05/18/11	17:12	07:03	(used for QC only; not part of job F82120)
F82097-16MS	C078628.D	05/18/11	17:37	07:28	Matrix Spike
F82097-16MSD	C078629.D	05/18/11	18:02	07:53	Matrix Spike Duplicate
ZZZZZZ	C078630.D	05/18/11	18:27	08:18	(unrelated sample)
ZZZZZZ	C078631.D	05/18/11	18:53	08:44	(unrelated sample)
ZZZZZZ	C078632.D	05/18/11	19:18	09:09	(unrelated sample)
ZZZZZZ	C078633.D	05/18/11	19:43	09:34	(unrelated sample)
ZZZZZZ	C078634.D	05/18/11	20:08	09:59	(unrelated sample)
ZZZZZZ	C078635.D	05/18/11	20:34	10:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample:	VC3128-BFB	**Injection Date:**	05/18/11
Lab File ID:	C078610.D	**Injection Time:**	10:09
Instrument ID:	GCMSC		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	C078636.D	05/18/11	20:59	10:50	(unrelated sample)
ZZZZZZ	C078637.D	05/18/11	21:24	11:15	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: VC3129-BFB
Lab File ID: C078641.D
Instrument ID: GCMSC
Injection Date: 05/19/11
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7349	23.1		Pass
75	30.0 - 60.0% of mass 95	19029	59.9		Pass
95	Base peak, 100% relative abundance	31752	100.0		Pass
96	5.0 - 9.0% of mass 95	2259	7.11		Pass
173	Less than 2.0% of mass 174	147	0.46	(0.61) [a]	Pass
174	50.0 - 100.0% of mass 95	24282	76.5		Pass
175	5.0 - 9.0% of mass 174	1854	5.84	(7.64) [a]	Pass
176	95.0 - 101.0% of mass 174	23112	72.8	(95.2) [a]	Pass
177	5.0 - 9.0% of mass 176	1529	4.82	(6.62) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC3129-CC3128	C078643.D	05/19/11	10:24	00:54	Continuing cal 4
VC3129-BS	C078644.D	05/19/11	10:50	01:20	Blank Spike
VC3130-BS	C078644.D	05/19/11	10:50	01:20	Blank Spike
VC3130-MB	C078645.D	05/19/11	11:22	01:52	Method Blank
VC3129-MB	C078645.D	05/19/11	11:22	01:52	Method Blank
F82120-1	C078646.D	05/19/11	11:52	02:22	MA02MW001D
F82120-2	C078647.D	05/19/11	12:17	02:47	TB3
ZZZZZZ	C078648.D	05/19/11	12:42	03:12	(unrelated sample)
ZZZZZZ	C078649.D	05/19/11	13:06	03:36	(unrelated sample)
ZZZZZZ	C078650.D	05/19/11	13:31	04:01	(unrelated sample)
ZZZZZZ	C078651.D	05/19/11	13:56	04:26	(unrelated sample)
ZZZZZZ	C078652.D	05/19/11	14:22	04:52	(unrelated sample)
ZZZZZZ	C078653.D	05/19/11	14:47	05:17	(unrelated sample)
F82144-15	C078654.D	05/19/11	15:12	05:42	(used for QC only; not part of job F82120)
ZZZZZZ	C078655.D	05/19/11	15:37	06:07	(unrelated sample)
F82144-15MS	C078656.D	05/19/11	16:04	06:34	Matrix Spike
F82144-15MSD	C078657.D	05/19/11	16:29	06:59	Matrix Spike Duplicate
ZZZZZZ	C078658.D	05/19/11	16:54	07:24	(unrelated sample)
ZZZZZZ	C078659.D	05/19/11	17:19	07:49	(unrelated sample)
ZZZZZZ	C078660.D	05/19/11	17:44	08:14	(unrelated sample)
ZZZZZZ	C078663.D	05/19/11	18:58	09:28	(unrelated sample)
ZZZZZZ	C078664.D	05/19/11	19:23	09:53	(unrelated sample)
ZZZZZZ	C078665.D	05/19/11	19:48	10:18	(unrelated sample)
F82189-1	C078667.D	05/19/11	20:37	11:07	(used for QC only; not part of job F82120)

Instrument Performance Check (BFB)

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample:	VC3129-BFB	**Injection Date:**	05/19/11
Lab File ID:	C078641.D	**Injection Time:**	09:30
Instrument ID:	GCMSC		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F82189-1MS	C078668.D	05/19/11	21:01	11:31	Matrix Spike
F82189-1MSD	C078669.D	05/19/11	21:26	11:56	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std: VC3129-CC3128 **Injection Date:** 05/19/11
Lab File ID: C078643.D **Injection Time:** 10:24
Instrument ID: GCMSC **Method:** SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	915834	7.15	752971	10.25	496843	12.62	129890	4.83
Check Std [b]	750685	7.14	623472	10.25	422881	12.62	105480	4.81
Upper Limit [c]	1501370	7.64	1246944	10.75	845762	13.12	210960	5.31
Lower Limit [d]	375343	6.64	311736	9.75	211441	12.12	52740	4.31

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC3129-BS	756301	7.14	610764	10.25	412340	12.62	114573	4.83
VC3130-BS	756301	7.14	610764	10.25	412340	12.62	114573	4.83
VC3130-MB	808167	7.14	645714	10.24	386270	12.62	108575	4.82
VC3129-MB	808167	7.14	645714	10.24	386270	12.62	108575	4.82
F82120-1 [e]	691851	7.14	539027	10.25	326511	12.62	105916	4.82
F82120-2 [f]	672114	7.14	527132	10.25	316310	12.62	99905	4.81
ZZZZZZ	679984	7.14	534563	10.24	316911	12.62	98001	4.81
ZZZZZZ	671257	7.14	533049	10.24	314241	12.62	99958	4.83
ZZZZZZ	653775	7.14	516478	10.25	308928	12.62	102623	4.81
ZZZZZZ	636361	7.14	498028	10.25	301028	12.62	99202	4.83
ZZZZZZ	632889	7.14	495919	10.25	299266	12.62	97606	4.82
ZZZZZZ	623047	7.14	480003	10.25	292720	12.62	98327	4.82
F82144-15	615890	7.14	476589	10.25	288715	12.62	95820	4.82
ZZZZZZ	601668	7.14	464545	10.25	282832	12.62	95240	4.82
F82144-15MS	593850	7.14	491927	10.25	342931	12.62	96363	4.83
F82144-15MSD	632223	7.14	517414	10.25	363119	12.62	102528	4.82
ZZZZZZ	639577	7.14	497754	10.25	302872	12.62	103664	4.83
ZZZZZZ	645686	7.14	507810	10.25	308618	12.62	104496	4.82
ZZZZZZ	644610	7.14	521309	10.24	311106	12.62	110620	4.83
ZZZZZZ	601978	7.14	486598	10.24	285920	12.62	94123	4.83
ZZZZZZ	586430	7.14	466937	10.24	279163	12.62	91051	4.82
ZZZZZZ	574268	7.14	452390	10.24	272435	12.62	89891	4.81
F82189-1	526728	7.14	423061	10.24	252587	12.62	87762	4.81
F82189-1MS	531624	7.14	460577	10.24	319841	12.62	92854	4.83
F82189-1MSD	568507	7.14	491731	10.24	341803	12.62	101354	4.81

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VC3128-ICC3128 C078614.D 05/18/11 11:48
(b) Check Std Limit = -50 to + 100% of initial cal area.

Volatile Internal Standard Area Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	VC3129-CC3128	**Injection Date:**	05/19/11
Lab File ID:	C078643.D	**Injection Time:**	10:24
Instrument ID:	GCMSC	**Method:**	SW846 8260B

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(f) Sample vial(s) contained significant headspace; reported results are considered minimum values.

Volatile Surrogate Recovery Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F82120-1	C078646.D	106.0	113.0	101.0	107.0
F82120-2	C078647.D	106.0	115.0	101.0	109.0
F82144-15MS	C078656.D	108.0	125.0	98.0	100.0
F82144-15MSD	C078657.D	108.0	122.0	98.0	99.0
VC3129-BS	C078644.D	104.0	111.0	100.0	99.0
VC3129-MB	C078645.D	104.0	106.0	100.0	107.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	87-116%
S2 = 1,2-Dichloroethane-D4	76-127%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	84-120%

Initial Calibration Summary

Job Number: F82120 **Sample:** VC3128-ICC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078614.D
Project: Melrose Air Force Range, NM

Response Factor Report MSVOA5

Method : C:\msdchem\2\METHODS\8260c.m (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed May 18 13:13:46 2011
Response via : Initial Calibration

Calibration Files
1 =C078611.D 2 =C078612.D 3 =C078613.D 4 =C078614.D
5 =C078615.D 6 =C078616.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------		
2)		Dichlorodifluoromet	0.224	0.326	0.299	0.299	0.267	0.243	0.276	13.92
3)	P	Chloromethane	0.289	0.303	0.270	0.277	0.259	0.238	0.273	8.26
4)	C	Vinyl Chloride	0.251	0.291	0.258	0.275	0.257	0.244	0.263	6.67
5)		Bromomethane	0.185	0.201	0.177	0.185	0.166	0.153	0.178	9.38
6)		Chloroethane	0.139	0.147	0.131	0.131	0.112	0.098	0.126	14.41
7)		Trichlorofluorometh	0.425	0.532	0.483	0.490	0.436	0.394	0.460	10.99
8)		Ethyl Ether	0.152	0.182	0.173	0.183	0.177	0.165	0.172	6.86
9)		1,2-Dichlorotrifluo	0.232	0.266	0.245	0.245	0.235	0.225	0.241	5.92
10)	C	1,1-Dichloroethene	0.367	0.404	0.378	0.376	0.356	0.335	0.369	6.24
11)		Freon 113	0.206	0.237	0.232	0.228	0.215	0.208	0.221	5.89
12)		Carbon Disulfide	0.647	0.667	0.623	0.629	0.610	0.582	0.626	4.72
13)		Iodomethane	0.347	0.377	0.356	0.362	0.351	0.342	0.356	3.45
14)		Methylene Chloride	0.488	0.325	0.288	0.281	0.258	0.246	0.314	28.42
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.29881 *A + -0.02689 *A^2								
15)		Acetone	0.016	0.022	0.021	0.020	0.019	0.020	0.020	11.18
16)		Methyl acetate	0.031	0.040	0.037	0.038	0.035	0.034	0.036	8.86
17)		trans-1,2-Dichloroe	0.330	0.392	0.364	0.357	0.332	0.323	0.350	7.57
18)		Hexane	0.163	0.175	0.160	0.157	0.149	0.147	0.159	6.44
19)		Methyl Tert Butyl E	0.757	0.824	0.796	0.776	0.711	0.678	0.757	7.15
20)		Di-isopropyl ether	0.768	0.795	0.750	0.751	0.714	0.699	0.746	4.72
21)	P	1,1-Dichloroethane	0.460	0.531	0.501	0.490	0.465	0.453	0.483	6.14
22)		Acrylonitrile	0.072	0.081	0.083	0.082	0.077	0.078	0.079	5.21
23)		ETBE	0.878	0.924	0.890	0.854	0.783	0.743	0.845	8.13
24)		Vinyl acetate	0.467	0.534	0.518	0.483	0.409	0.363	0.462	14.20
25)		cis-1,2-Dichloroeth	0.271	0.280	0.276	0.283	0.276	0.277	0.277	1.53
26)		2,2-Dichloropropane	0.447	0.518	0.502	0.482	0.445	0.426	0.470	7.76
27)		Bromochloromethane	0.138	0.143	0.141	0.141	0.139	0.141	0.141	1.23
28)		Cyclohexane	0.331	0.398	0.374	0.370	0.359	0.360	0.365	6.04
29)	C	Chloroform	0.566	0.627	0.585	0.575	0.533	0.508	0.566	7.37
30)		Tetrahydrofuran	0.072	0.075	0.072	0.076	0.067	0.065	0.071	6.30
31)	S	Dibromofluoromethan	0.300	0.301	0.302	0.296	0.293	0.293	0.297	1.38
32)		Carbon Tetrachlorid	0.468	0.558	0.539	0.530	0.496	0.474	0.511	7.21
33)		1,1,1-Trichloroetha	0.492	0.583	0.559	0.545	0.507	0.482	0.528	7.67
34)		2-Butanone	0.116	0.145	0.134	0.132	0.120	0.114	0.127	9.65
35)		1,1-Dichloropropene	0.409	0.439	0.416	0.415	0.394	0.383	0.409	4.76
36)		Benzene	1.081	1.135	1.052	1.032	0.966	0.920	1.031	7.57
37)		TAME	0.776	0.836	0.802	0.786	0.726	0.687	0.769	7.00
38)	S	1,2-Dichloroethane-	0.428	0.453	0.462	0.455	0.441	0.431	0.445	3.13
39)		1,2-Dichloroethane	0.515	0.555	0.530	0.525	0.464	0.425	0.502	9.63
40)		Trichloroethene	0.318	0.329	0.307	0.311	0.293	0.284	0.307	5.37
41)		Methylcyclohexane	0.309	0.378	0.363	0.366	0.355	0.351	0.354	6.82
42)		Dibromomethane	0.189	0.205	0.199	0.200	0.187	0.180	0.193	4.91
43)	C	1,2-Dichloropropane	0.264	0.289	0.279	0.280	0.265	0.258	0.272	4.42

Initial Calibration Summary

Job Number: F82120 **Sample:** VC3128-ICC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078614.D
Project: Melrose Air Force Range, NM

44)		Bromodichloromethan	0.446	0.496	0.468	0.469	0.430	0.406	0.453	7.10
45)		2-Chloroethyl vinyl	0.164	0.213	0.199	0.194	0.165	0.145	0.180	14.35
46)		cis-1,3-Dichloropro	0.465	0.542	0.523	0.527	0.476	0.445	0.497	7.95
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	S	Toluene-d8	1.361	1.326	1.307	1.283	1.313	1.330	1.320	1.96
49)	C	Toluene	1.599	1.663	1.459	1.392	1.293	1.197	1.434	12.40
50)		2-Nitropropane	0.087	0.117	0.122	0.119	0.105	0.097	0.108	12.74
51)		4-Methyl-2-pentanon	0.318	0.398	0.350	0.322	0.271	0.240	0.316	17.65
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.36734 *A + -0.01286 *A^2								
52)		trans-1,3-Dichlorop	0.570	0.676	0.640	0.626	0.565	0.531	0.601	9.05
53)		Tetrachloroethene	0.399	0.419	0.394	0.392	0.383	0.375	0.394	3.84
54)		1,1,2-Trichloroetha	0.323	0.330	0.299	0.295	0.282	0.277	0.301	7.13
55)		Dibromochloromethan	0.422	0.472	0.445	0.442	0.421	0.404	0.434	5.52
56)		1,3-Dichloropropane	0.608	0.678	0.618	0.609	0.561	0.530	0.601	8.49
57)		1,2-Dibromoethane	0.334	0.392	0.358	0.368	0.346	0.336	0.356	6.17
58)		2-hexanone	0.212	0.293	0.271	0.255	0.213	0.193	0.239	16.42
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988								
		Response Ratio = 0.00000 + 0.28465 *A + -0.00934 *A^2								
59)		1-Chlorohexane	0.440	0.516	0.479	0.479	0.447	0.429	0.465	6.94
60)	C	Ethylbenzene	2.018	2.033	1.726	1.643	1.396	1.265	1.680	18.74
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 1.83128 *A + -0.28752 *A^2								
61)	P	Chlorobenzene	1.063	1.128	0.988	0.959	0.851	0.795	0.964	12.99
62)		1,1,1,2-Tetrachloro	0.393	0.433	0.396	0.394	0.375	0.359	0.392	6.38
63)		m,p-Xylene	1.460	1.535	1.333	1.208	1.005	0.867	1.235	21.12
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 1.41040 *A + -0.13738 *A^2								
64)		o-Xylene	1.371	1.566	1.429	1.358	1.186	1.072	1.330	13.23
65)		Styrene	0.898	1.151	1.104	1.066	0.943	0.863	1.004	11.80
66)	P	Bromoform	0.265	0.334	0.334	0.337	0.315	0.302	0.315	8.88
67)		Isopropylbenzene	1.440	1.597	1.440	1.357	1.203	1.078	1.353	13.74
68)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
69)	S	4-Bromofluorobenzen	0.999	0.994	0.961	0.961	0.951	0.944	0.968	2.34
70)		n-Propylbenzene	3.123	3.395	2.893	2.675	2.257	2.024	2.728	19.03
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 3.02886 *A + -0.51022 *A^2								
71)		Bromobenzene	0.795	0.853	0.749	0.745	0.679	0.647	0.745	10.08
72)	P	1,1,2,2-Tetrachloro	0.721	0.822	0.732	0.702	0.646	0.619	0.707	10.07
73)		1,3,5-Trimethylbenz	2.234	2.533	2.210	2.081	1.820	1.644	2.087	15.20
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 2.33149 *A + -0.34717 *A^2								
74)		2-Chlorotoluene	2.293	2.575	2.207	2.067	1.797	1.649	2.098	16.11
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995								
		Response Ratio = 0.00000 + 2.29316 *A + -0.32745 *A^2								
75)		trans-1,4-Dichloro-	0.157	0.188	0.218	0.229	0.198	0.197	0.198	12.57
76)		1,2,3-Trichloroprop	0.239	0.259	0.239	0.238	0.218	0.214	0.234	7.01
77)		Cyclohexanone	0.012	0.017	0.020	0.021	0.019	0.020	0.018	17.42
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.02015 *A + -0.00006 *A^2								

Initial Calibration Summary

Job Number: F82120 **Sample:** VC3128-ICC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078614.D
Project: Melrose Air Force Range, NM

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78)     4-Chlorotoluene     2.079 2.399 2.048 1.949 1.676 1.541 1.948  15.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 2.14828 *A + -0.30883 *A^2

79)     tert-Butylbenzene   1.320 1.521 1.326 1.261 1.139 1.065 1.272  12.59
80)     1,2,4-Trimethylbenz 2.344 2.600 2.249 2.125 1.838 1.684 2.140  15.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 2.35419 *A + -0.34047 *A^2

81)     sec-Butylbenzene    2.419 2.784 2.415 2.258 1.974 1.802 2.275  15.40
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 2.51544 *A + -0.36167 *A^2

82)     4-Isopropyltoluene  1.944 2.255 1.991 1.902 1.661 1.531 1.881  13.59
83)     1,3-Dichlorobenzene 1.283 1.527 1.312 1.281 1.154 1.080 1.273  12.04
84)     1,4-Dichlorobenzene 1.422 1.558 1.393 1.342 1.192 1.113 1.337  12.07
85)     n-Butylbenzene      1.090 1.299 1.194 1.172 1.042 0.981 1.129  10.16
86)     Benzyl Chloride     0.203 0.284 0.287 0.296 0.268 0.261 0.266  12.59
87)     1,2-Dichlorobenzene 1.296 1.461 1.314 1.262 1.128 1.068 1.255  11.20
88)     1,2-Dibromo-3-Chlor 0.128 0.163 0.170 0.164 0.148 0.144 0.153  10.41
89)     Hexachlorobutadiene 0.374 0.365 0.336 0.334 0.319 0.316 0.341   6.99
90)     1,2,4-Trichlorobenz 0.786 0.924 0.899 0.876 0.807 0.768 0.843   7.68
91)     Naphthalene         1.549 2.072 2.013 1.898 1.606 1.458 1.766  14.76
92)     1,2,3-Trichlorobenz 0.687 0.854 0.813 0.807 0.737 0.703 0.767   8.78

93) I   Tert Butyl Alcohol-d1 ----------------ISTD--------------------
94)     acrolein            0.882 0.650 0.447 0.427 0.543 0.479 0.571  30.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9878
              Response Ratio = 0.00000 + 0.49444 *A + -0.00154 *A^2

95)     Tert Butyl Alcohol  1.185 1.180 1.009 0.992 0.933 0.914 1.035  11.52
96)     tert Amyl alcohol   0.693 0.848 0.825 0.826 0.793 0.790 0.796   6.91
97)     1,4-Dioxane         0.114 0.116 0.109 0.114 0.112 0.115 0.114   2.21
-------------------------------------------------------------------------------
(#) = Out of Range

          8260c.m           Wed May 18 13:49:26 2011
```

Initial Calibration Verification

Job Number: F82120 **Sample:** VC3128-ICV3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078617.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\051811\C078617.D Vial: 7
Acq On : 18 May 2011 1:02 pm Operator: ANAJ
Sample : ICV3128-4 Inst : MSVOA5
Misc : MS17337,VC3128,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\msdchem\2\METHODS\8260c.m (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed May 18 13:13:46 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	125	0.00	7.14
2		Dichlorodifluoromethane	0.276	0.224	18.8	94	0.00	2.57
3	P	Chloromethane	0.273	0.285	-4.4	128	0.00	2.71
4	C	Vinyl Chloride	0.263	0.233	11.4	106	0.00	2.87
5		Bromomethane	0.178	0.176	1.1	118	0.00	3.18
6		Chloroethane	0.126	0.119	5.6	113	0.00	3.31
7		Trichlorofluoromethane	0.460	0.463	-0.7	118	0.00	3.46
8		Ethyl Ether	0.172	0.180	-4.7	123	0.00	3.72
9		1,2-Dichlorotrifluoroetha	0.241	0.251	-4.1	128	-0.01	3.94
10	C	1,1-Dichloroethene	0.369	0.351	4.9	117	0.00	3.98
11		Freon 113	0.221	0.227	-2.7	124	-0.01	4.03
12		Carbon Disulfide	0.626	0.649	-3.7	129	0.00	4.04
13		Iodomethane	0.356	0.380	-6.7	131	-0.01	4.14
		----------	Amount	Calc.	%Drift		----------	
14		Methylene Chloride	40.000	36.743	8.1	114	0.00	4.56
		----------	AvgRF	CCRF	%Dev		----------	
15		Acetone	0.020	0.017	15.0	105	-0.01	4.59
16		Methyl acetate	0.036	0.036	0.0	120	0.00	4.70
17		trans-1,2-Dichloroethene	0.350	0.325	7.1	113	0.00	4.72
18		Hexane	0.159	0.168	-5.7	133	-0.02	4.76
19		Methyl Tert Butyl Ether	0.757	0.755	0.3	121	0.00	4.83
20		Di-isopropyl ether	0.746	0.811	-8.7	135	0.00	5.17
21	P	1,1-Dichloroethane	0.483	0.478	1.0	122	0.00	5.34
22		Acrylonitrile	0.079	0.082	-3.8	124	0.00	5.39
23		ETBE	0.845	0.824	2.5	120	0.00	5.56
24		Vinyl acetate	0.462	0.448	3.0	116	0.00	5.54
25		cis-1,2-Dichloroethene	0.277	0.286	-3.2	126	0.00	5.88
26		2,2-Dichloropropane	0.470	0.426	9.4	110	0.00	6.01
27		Bromochloromethane	0.141	0.146	-3.5	129	0.00	6.08
28		Cyclohexane	0.365	0.401	-9.9	135	0.00	6.12
29	C	Chloroform	0.566	0.532	6.0	115	0.00	6.14
30		Tetrahydrofuran	0.071	0.072	-1.4	117	-0.01	6.31
31	S	Dibromofluoromethane	0.297	0.296	0.3	125	0.00	6.33
32		Carbon Tetrachloride	0.511	0.481	5.9	113	0.00	6.32
33		1,1,1-Trichloroethane	0.528	0.495	6.3	113	0.00	6.39
34		2-Butanone	0.127	0.115	9.4	108	0.00	6.43
35		1,1-Dichloropropene	0.409	0.403	1.5	121	0.00	6.49
36		Benzene	1.031	1.017	1.4	123	0.00	6.74
37		TAME	0.769	0.769	0.0	122	0.00	6.84
38	S	1,2-Dichloroethane-d4	0.445	0.407	8.5	112	0.00	6.87

Initial Calibration Verification

Job Number: F82120 **Sample:** VC3128-ICV3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078617.D
Project: Melrose Air Force Range, NM

39		1,2-Dichloroethane	0.502	0.443	11.8	105	0.00	6.94
40		Trichloroethene	0.307	0.292	4.9	117	0.00	7.31
41		Methylcyclohexane	0.354	0.400	-13.0	136	0.00	7.33
42		Dibromomethane	0.193	0.182	5.7	113	0.00	7.74
43	C	1,2-Dichloropropane	0.272	0.268	1.5	119	0.00	7.84
44		Bromodichloromethane	0.453	0.420	7.3	112	0.00	7.89
45		2-Chloroethyl vinyl ether	0.180	0.167	7.2	108	0.00	8.42
46		cis-1,3-Dichloropropene	0.497	0.476	4.2	113	0.00	8.51
47	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00	10.25
48	S	Toluene-d8	1.320	1.342	-1.7	120	0.00	8.69
49	C	Toluene	1.434	1.388	3.2	114	0.00	8.75
50		2-Nitropropane	0.108	0.101	6.5	97	0.00	8.97
		----------	Amount	Calc.	%Drift	----------		
51		4-Methyl-2-pentanone	200.000	184.672	7.7	105	0.00	9.10
		----------	AvgRF	CCRF	%Dev	----------		
52		trans-1,3-Dichloropropene	0.601	0.614	-2.2	112	0.00	9.14
53		Tetrachloroethene	0.394	0.397	-0.8	116	0.00	9.14
54		1,1,2-Trichloroethane	0.301	0.285	5.3	110	0.00	9.31
55		Dibromochloromethane	0.434	0.415	4.4	107	0.00	9.50
56		1,3-Dichloropropane	0.601	0.564	6.2	106	0.00	9.59
57		1,2-Dibromoethane	0.356	0.348	2.2	108	0.00	9.75
		----------	Amount	Calc.	%Drift	----------		
58		2-hexanone	200.000	178.057	11.0	100	0.00	9.92
		----------	AvgRF	CCRF	%Dev	----------		
59		1-Chlorohexane	0.465	0.467	-0.4	111	0.00	10.21
		----------	Amount	Calc.	%Drift	----------		
60	C	Ethylbenzene	40.000	37.507	6.2	105	0.00	10.27
		----------	AvgRF	CCRF	%Dev	----------		
61	P	Chlorobenzene	0.964	0.912	5.4	109	0.00	10.26
62		1,1,1,2-Tetrachloroethane	0.392	0.378	3.6	109	0.00	10.32
		----------	Amount	Calc.	%Drift	----------		
63		m,p-Xylene	80.000	74.693	6.6	106	0.00	10.42
		----------	AvgRF	CCRF	%Dev	----------		
64		o-Xylene	1.330	1.262	5.1	106	0.00	10.85
65		Styrene	1.004	0.991	1.3	106	0.00	10.90
66	P	Bromoform	0.315	0.302	4.1	102	0.00	10.95
67		Isopropylbenzene	1.353	1.438	-6.3	121	0.00	11.16
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	12.62
69	S	4-Bromofluorobenzene	0.968	0.953	1.5	109	0.00	11.47
		----------	Amount	Calc.	%Drift	----------		
70		n-Propylbenzene	40.000	39.058	2.4	106	0.00	11.58
		----------	AvgRF	CCRF	%Dev	----------		
71		Bromobenzene	0.745	0.711	4.6	105	0.00	11.58
72	P	1,1,2,2-Tetrachloroethane	0.707	0.660	6.6	103	0.00	11.65
		----------	Amount	Calc.	%Drift	----------		
73		1,3,5-Trimethylbenzene	40.000	37.396	6.5	102	0.00	11.77
74		2-Chlorotoluene	40.000	38.005	5.0	103	0.00	11.77

Initial Calibration Verification

Job Number: F82120 **Sample:** VC3128-ICV3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078617.D
Project: Melrose Air Force Range, NM

			AvgRF	CCRF	%Dev			
75		trans-1,4-Dichloro-2-Bute	0.198	0.206	-4.0	99	0.00	11.83
76		1,2,3-Trichloropropane	0.234	0.216	7.7	100	0.00	11.80
			Amount	Calc.	%Drift			
77		Cyclohexanone	200.000	198.394	0.8	105	0.00	11.86
78		4-Chlorotoluene	40.000	38.211	4.5	103	0.00	11.93
			AvgRF	CCRF	%Dev			
79		tert-Butylbenzene	1.272	1.206	5.2	105	0.00	12.11
			Amount	Calc.	%Drift			
80		1,2,4-Trimethylbenzene	40.000	37.695	5.8	102	0.00	12.18
81		sec-Butylbenzene	40.000	39.518	1.2	107	0.00	12.30
			AvgRF	CCRF	%Dev			
82		4-Isopropyltoluene	1.881	1.863	1.0	108	0.00	12.44
83		1,3-Dichlorobenzene	1.273	1.226	3.7	105	0.00	12.55
84		1,4-Dichlorobenzene	1.337	1.260	5.8	103	0.00	12.64
85		n-Butylbenzene	1.129	1.089	3.5	102	0.00	12.88
86		Benzyl Chloride	0.266	0.259	2.6	96	0.00	12.89
87		1,2-Dichlorobenzene	1.255	1.206	3.9	105	0.00	13.08
88		1,2-Dibromo-3-Chloropropa	0.153	0.140	8.5	94	0.00	13.87
89		Hexachlorobutadiene	0.341	0.333	2.3	109	0.00	14.44
90		1,2,4-Trichlorobenzene	0.843	0.853	-1.2	107	0.00	14.49
91		Naphthalene	1.766	1.796	-1.7	104	0.00	14.77
92		1,2,3-Trichlorobenzene	0.767	0.783	-2.1	107	0.00	14.92
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	114	0.00	4.83
			Amount	Calc.	%Drift			
94		acrolein	200.000	89.243	55.4#	59	0.00	4.31
			AvgRF	CCRF	%Dev			
95		Tert Butyl Alcohol	1.035	0.901	12.9	104	0.00	4.90
96		tert Amyl alcohol	0.796	0.792	0.5	110	0.00	7.00
97		1,4-Dioxane	0.114	0.119	-4.4	120	0.00	8.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C078614.D 8260c.m Wed May 18 13:49:47 2011

Continuing Calibration Summary

Job Number: F82120 **Sample:** VC3129-CC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078643.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\051911\C078643.D Vial: 2
Acq On : 19 May 2011 10:24 am Operator: ANAJ
Sample : CC3128-4 Inst : MSVOA5
Misc : MS17353,VC3129,,,,, Multiplr: 1.00
MS Integration Params: Tiny.p

Method : C:\msdchem\2\METHODS\8260c.m (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed May 18 13:13:46 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00	7.14
2		Dichlorodifluoromethane	0.276	0.328	-18.8	90	0.00	2.58
3	P	Chloromethane	0.273	0.304	-11.4	90	0.01	2.73
4	C	Vinyl Chloride	0.263	0.295	-12.2	88	0.01	2.88
5		Bromomethane	0.178	0.212	-19.1	94	0.00	3.18
6		Chloroethane	0.126	0.156	-23.8#	97	0.00	3.31
7		Trichlorofluoromethane	0.460	0.577	-25.4#	97	-0.01	3.44
8		Ethyl Ether	0.172	0.200	-16.3	89	-0.01	3.72
9		1,2-Dichlorotrifluoroetha	0.241	0.276	-14.5	92	0.00	3.96
10	C	1,1-Dichloroethene	0.369	0.434	-17.6	95	0.00	3.98
11		Freon 113	0.221	0.253	-14.5	91	0.00	4.04
12		Carbon Disulfide	0.626	0.693	-10.7	90	0.00	4.04
13		Iodomethane	0.356	0.392	-10.1	89	-0.01	4.14
		----------	Amount	Calc.	%Drift		----------	
14		Methylene Chloride	40.000	46.721	-16.8	93	0.00	4.57
		----------	AvgRF	CCRF	%Dev		----------	
15		Acetone	0.020	0.021	-5.0	86	0.00	4.59
16		Methyl acetate	0.036	0.036	0.0	79	0.00	4.69
17		trans-1,2-Dichloroethene	0.350	0.388	-10.9	89	0.00	4.72
18		Hexane	0.159	0.173	-8.8	90	-0.01	4.76
19		Methyl Tert Butyl Ether	0.757	0.818	-8.1	86	0.00	4.83
20		Di-isopropyl ether	0.746	0.754	-1.1	82	0.00	5.18
21	P	1,1-Dichloroethane	0.483	0.493	-2.1	83	0.00	5.33
22		Acrylonitrile	0.079	0.076	3.8	76	0.00	5.38
23		ETBE	0.845	0.865	-2.4	83	0.00	5.56
24		Vinyl acetate	0.462	0.496	-7.4	84	0.00	5.54
25		cis-1,2-Dichloroethene	0.277	0.265	4.3	77	0.00	5.88
26		2,2-Dichloropropane	0.470	0.527	-12.1	90	0.00	6.01
27		Bromochloromethane	0.141	0.132	6.4	77	0.00	6.08
28		Cyclohexane	0.365	0.366	-0.3	81	0.00	6.11
29	C	Chloroform	0.566	0.592	-4.6	84	0.00	6.14
30		Tetrahydrofuran	0.071	0.065	8.5	70	0.00	6.32
31	S	Dibromofluoromethane	0.297	0.311	-4.7	86	0.00	6.33
32		Carbon Tetrachloride	0.511	0.554	-8.4	86	0.00	6.32
33		1,1,1-Trichloroethane	0.528	0.569	-7.8	86	0.00	6.39
34		2-Butanone	0.127	0.123	3.1	77	0.00	6.44
35		1,1-Dichloropropene	0.409	0.418	-2.2	82	0.00	6.49
36		Benzene	1.031	0.989	4.1	79	0.00	6.74
37		TAME	0.769	0.767	0.3	80	0.00	6.84
38	S	1,2-Dichloroethane-d4	0.445	0.509	-14.4	92	0.00	6.87

Continuing Calibration Summary

Job Number: F82120 **Sample:** VC3129-CC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078643.D
Project: Melrose Air Force Range, NM

39		1,2-Dichloroethane	0.502	0.556	-10.8	87	0.00	6.94
40		Trichloroethene	0.307	0.303	1.3	80	0.00	7.31
41		Methylcyclohexane	0.354	0.363	-2.5	81	0.00	7.33
42		Dibromomethane	0.193	0.196	-1.6	80	0.00	7.74
43	C	1,2-Dichloropropane	0.272	0.263	3.3	77	0.00	7.83
44		Bromodichloromethane	0.453	0.478	-5.5	83	0.00	7.89
45		2-Chloroethyl vinyl ether	0.180	0.180	0.0	76	0.00	8.42
46		cis-1,3-Dichloropropene	0.497	0.520	-4.6	81	0.00	8.51
47	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.25
48	S	Toluene-d8	1.320	1.294	2.0	83	0.00	8.69
49	C	Toluene	1.434	1.315	8.3	78	0.00	8.74
50		2-Nitropropane	0.108	0.105	2.8	74	0.00	8.97
			Amount	Calc.	%Drift			
51		4-Methyl-2-pentanone	200.000	184.373	7.8	76	0.00	9.10
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.601	0.617	-2.7	82	0.00	9.14
53		Tetrachloroethene	0.394	0.371	5.8	78	0.00	9.14
54		1,1,2-Trichloroethane	0.301	0.269	10.6	75	0.00	9.31
55		Dibromochloromethane	0.434	0.415	4.4	78	0.00	9.50
56		1,3-Dichloropropane	0.601	0.562	6.5	76	0.00	9.58
57		1,2-Dibromoethane	0.356	0.329	7.6	74	0.00	9.75
			Amount	Calc.	%Drift			
58		2-hexanone	200.000	184.138	7.9	75	0.00	9.92
			AvgRF	CCRF	%Dev			
59		1-Chlorohexane	0.465	0.449	3.4	78	0.00	10.21
			Amount	Calc.	%Drift			
60	C	Ethylbenzene	40.000	39.641	0.9	80	0.00	10.27
			AvgRF	CCRF	%Dev			
61	P	Chlorobenzene	0.964	0.902	6.4	78	0.00	10.26
62		1,1,1,2-Tetrachloroethane	0.392	0.380	3.1	80	0.00	10.32
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	80.498	-0.6	82	0.00	10.41
			AvgRF	CCRF	%Dev			
64		o-Xylene	1.330	1.319	0.8	80	0.00	10.85
65		Styrene	1.004	0.976	2.8	76	0.00	10.90
66	P	Bromoform	0.315	0.301	4.4	74	0.00	10.95
67		Isopropylbenzene	1.353	1.329	1.8	81	0.00	11.16
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	12.62
69	S	4-Bromofluorobenzene	0.968	0.959	0.9	85	0.00	11.46
			Amount	Calc.	%Drift			
70		n-Propylbenzene	40.000	39.366	1.6	82	0.00	11.58
			AvgRF	CCRF	%Dev			
71		Bromobenzene	0.745	0.674	9.5	77	0.00	11.58
72	P	1,1,2,2-Tetrachloroethane	0.707	0.604	14.6	73	0.00	11.65
			Amount	Calc.	%Drift			
73		1,3,5-Trimethylbenzene	40.000	38.821	2.9	82	0.00	11.77
74		2-Chlorotoluene	40.000	38.906	2.7	82	0.00	11.76

Continuing Calibration Summary

Job Number: F82120 **Sample:** VC3129-CC3128
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** C078643.D
Project: Melrose Air Force Range, NM

			AvgRF	CCRF	%Dev			
75		trans-1,4-Dichloro-2-Bute	0.198	0.228	-15.2	85	0.00	11.83
76		1,2,3-Trichloropropane	0.234	0.207	11.5	74	0.00	11.80
			Amount	Calc.	%Drift			
77		Cyclohexanone	200.000	181.555	9.2	74	0.00	11.86
78		4-Chlorotoluene	40.000	38.523	3.7	80	0.00	11.93
			AvgRF	CCRF	%Dev			
79		tert-Butylbenzene	1.272	1.280	-0.6	86	0.00	12.11
			Amount	Calc.	%Drift			
80		1,2,4-Trimethylbenzene	40.000	39.170	2.1	82	0.00	12.18
81		sec-Butylbenzene	40.000	39.086	2.3	82	0.00	12.30
			AvgRF	CCRF	%Dev			
82		4-Isopropyltoluene	1.881	1.822	3.1	82	0.00	12.43
83		1,3-Dichlorobenzene	1.273	1.186	6.8	79	0.00	12.55
84		1,4-Dichlorobenzene	1.337	1.254	6.2	80	0.00	12.64
85		n-Butylbenzene	1.129	1.136	-0.6	83	0.00	12.87
86		Benzyl Chloride	0.266	0.275	-3.4	79	0.00	12.88
87		1,2-Dichlorobenzene	1.255	1.153	8.1	78	0.00	13.08
88		1,2-Dibromo-3-Chloropropa	0.153	0.148	3.3	77	0.00	13.87
89		Hexachlorobutadiene	0.341	0.340	0.3	87	0.00	14.44
90		1,2,4-Trichlorobenzene	0.843	0.818	3.0	79	0.00	14.48
91		Naphthalene	1.766	1.667	5.6	75	0.00	14.77
92		1,2,3-Trichlorobenzene	0.767	0.738	3.8	78	0.00	14.92
93	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	-0.02	4.81
			Amount	Calc.	%Drift			
94		acrolein	200.000	214.559	-7.3	101	-0.01	4.30
			AvgRF	CCRF	%Dev			
95		Tert Butyl Alcohol	1.035	0.897	13.3	73	0.00	4.89
96		tert Amyl alcohol	0.796	0.683	14.2	67	0.00	7.00
97		1,4-Dioxane	0.114	0.092	19.3	66	0.00	8.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C078614.D 8260c.m Thu May 19 11:07:44 2011

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP37125-MB	BB027979.D	1	05/12/11	SL	05/12/11	OP37125	GBB585

The QC reported here applies to the following samples: **Method:** SW846 8330A

F82120-1

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.20	0.080	ug/l	
121-82-4	RDX	ND	0.20	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.20	0.097	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.080	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	0.082	ug/l	
98-95-3	Nitrobenzene	ND	0.20	0.084	ug/l	
88-72-2	o-Nitrotoluene	ND	0.20	0.080	ug/l	
99-08-1	m-Nitrotoluene	ND	0.20	0.080	ug/l	
99-99-0	p-Nitrotoluene	ND	0.20	0.080	ug/l	
479-45-8	Tetryl	ND	0.20	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	0.080	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	93%	70-136%

Blank Spike Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP37125-BS	BB027978.D	1	05/12/11	SL	05/12/11	OP37125	GBB585

The QC reported here applies to the following samples: **Method:** SW846 8330A

F82120-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	5	5.6	112	74-152
121-82-4	RDX	5	5.0	100	80-124
99-65-0	1,3-Dinitrobenzene	5	4.8	96	84-123
606-20-2	2,6-Dinitrotoluene	5	5.3	106	84-133
121-14-2	2,4-Dinitrotoluene	5	5.2	104	77-116
35572-78-2	2-amino-4,6-Dinitrotoluene	5	5.1	102	78-117
19406-51-0	4-amino-2,6-Dinitrotoluene	5	4.9	98	84-123
98-95-3	Nitrobenzene	5	5.2	104	76-128
88-72-2	o-Nitrotoluene	5	5.0	100	76-120
99-08-1	m-Nitrotoluene	5	4.9	98	74-124
99-99-0	p-Nitrotoluene	5	5.0	100	81-125
479-45-8	Tetryl	5	5.0	100	62-117
99-35-4	1,3,5-Trinitrobenzene	5	5.3	106	85-127
118-96-7	2,4,6-Trinitrotoluene	5	4.6	92	71-128

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	100%	70-136%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP37125-MS	BB027982.D	1	05/12/11	SL	05/12/11	OP37125	GBB585
OP37125-MSD	BB027983.D	1	05/12/11	SL	05/12/11	OP37125	GBB585
F82243-1	BB027981.D	1	05/12/11	SL	05/12/11	OP37125	GBB585

The QC reported here applies to the following samples: **Method:** SW846 8330A

F82120-1

CAS No.	Compound	F82243-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	ND		9.8	10.9	111	11.2	114	3	74-152/21
121-82-4	RDX	ND		9.8	9.8	100	9.8	100	0	80-124/20
99-65-0	1,3-Dinitrobenzene	ND		9.8	9.9	101	9.9	101	0	84-123/23
606-20-2	2,6-Dinitrotoluene	ND		9.8	10.8	110	10.8	110	0	84-133/23
121-14-2	2,4-Dinitrotoluene	ND		9.8	10.4	106	10.4	106	0	77-116/26
35572-78-2	2-amino-4,6-Dinitrotoluene	ND		9.8	10.4	106	10.3	105	1	78-117/28
19406-51-0	4-amino-2,6-Dinitrotoluene	ND		9.8	9.8	100	9.7	99	1	84-123/27
98-95-3	Nitrobenzene	ND		9.8	10.5	107	10.5	107	0	76-128/28
88-72-2	o-Nitrotoluene	ND		9.8	10.3	105	10.3	105	0	76-120/30
99-08-1	m-Nitrotoluene	ND		9.8	10.2	104	10.0	102	2	74-124/32
99-99-0	p-Nitrotoluene	ND		9.8	10.3	105	10.3	105	0	81-125/34
479-45-8	Tetryl	ND		9.8	9.6	98	9.6	98	0	62-117/28
99-35-4	1,3,5-Trinitrobenzene	ND		9.8	10.7	109	10.7	109	0	85-127/21
118-96-7	2,4,6-Trinitrotoluene	ND		9.8	9.1	93	9.1	93	0	71-128/21

CAS No.	Surrogate Recoveries	MS	MSD	F82243-1	Limits
610-39-9	3,4-Dinitrotoluene	101%	100%	96%	70-136%

Semivolatile Surrogate Recovery Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F82120-1	BB027980.D	96.0
OP37125-BS	BB027978.D	100.0
OP37125-MB	BB027979.D	93.0
OP37125-MS	BB027982.D	101.0
OP37125-MSD	BB027983.D	100.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	70-136%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	GBB585-CC583	**Injection Date:**	05/12/11
Lab File ID:	BB027977.D	**Injection Time:**	15:51
Instrument ID:	GCBB	**Method:**	SW846 8330A

	S1 [a] RT
Check Std	11.43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT
OP37125-BS	BB027978.D	05/12/11	16:23	11.42
OP37125-MB	BB027979.D	05/12/11	16:55	11.43
F82120-1	BB027980.D	05/12/11	17:27	11.42
F82243-1	BB027981.D	05/12/11	17:59	11.43
OP37125-MS	BB027982.D	05/12/11	18:31	11.41
OP37125-MSD	BB027983.D	05/12/11	19:03	11.41
OP37090-BS	BB027984.D	05/12/11	19:35	11.41
OP37090-MB	BB027985.D	05/12/11	20:07	11.41
ZZZZZZ	BB027986.D	05/12/11	20:39	11.52
ZZZZZZ	BB027987.D	05/12/11	21:11	11.38

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: F82120 **Sample:** GBB583-ICC583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027928.D
Project: Melrose Air Force Range, NM

Response Factor Report G1315B

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed May 11 13:15:21 2011
Response via : Initial Calibration

Calibration Files
20 =BB027923.D 50 =BB027924.D 100 =BB027925.D 200 =BB027926.D
500 =BB027927.D 1000=BB027928.D 2000=BB027929.D

	Compound	20	50	100	200	500	1000	2000	Avg	%RSD
1)	TNX	3.642	3.194	3.172	3.135	3.146	3.169	3.207	3.238 E3	5.56
2)	HMX	1.419	1.436	1.526	1.377	1.402	1.436	1.457	1.436 E3	3.30
3)	DNX	3.204	2.850	2.735	2.731	2.657	2.690	2.726	2.799 E3	6.73
4)	MNX	2.720	2.450	2.479	2.294	2.349	2.319	2.357	2.424 E3	6.06
5)	RDX	1.962	1.885	1.786	1.825	1.843	1.807	1.843	1.850 E3	3.15
6)	1,3,5-Trinitroben	3.960	3.712	3.752	3.718	3.726	3.802	3.811	3.783 E3	2.31
7)	1,3-Dinitrobenzen	5.333	5.101	4.941	5.009	4.992	5.104	5.171	5.093 E3	2.59
8)	3,5-Dinitroanilin								0.000	-1.00
9)	Nitrobenzene	2.862	2.985	2.956	2.940	3.050	3.037	3.046	2.982 E3	2.32
10)	Nitroglycerin								0.000	-1.00
11)	Tetryl	2.943	2.704	2.698	2.683	2.707	2.741	2.755	2.747 E3	3.27
12)	2,4,6-Trinitrotol	3.914	3.704	3.642	3.601	3.603	3.648	3.680	3.685 E3	2.93
13)	2-Amino-4,6-Dinit	3.341	3.209	3.105	3.123	3.144	3.191	3.214	3.190 E3	2.48
14)	4-Amino-2,6-Dinit	2.569	2.386	2.314	2.329	2.359	2.394	2.403	2.394 E3	3.53
15)S	3,4-Dinitrotoluen	2.149	2.232	2.120	2.109	2.127	2.154	2.174	2.152 E3	1.93
16)	2,4-Dinitrotoluen	4.378	4.502	4.422	4.436	4.469	4.532	4.574	4.473 E3	1.52
17)	2,6-Dinitrotoluen	2.316	2.544	2.510	2.543	2.595	2.634	2.637	2.540 E3	4.32
18)	o-Nitrotoluene	2.096	2.234	2.192	2.149	2.161	2.160	2.172	2.166 E3	1.95
19)	p-Nitrotoluene	3.296	3.317	3.283	3.275	3.229	3.277	3.286	3.280 E3	0.82
20)	m-Nitrotoluene	3.546	3.110	3.022	3.061	3.091	3.158	3.144	3.162 E3	5.56
21)	PETN								0.000	-1.00

Signal #2

1)	TNX	7.341	4.974	5.278	5.094	4.959	4.949	4.997	5.370 E3	16.32

---- Linear regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 4987.80651 *A

2)	HMX	3.796	3.923	3.971	3.945	4.065	4.135	4.129	3.995 E3	3.08
3)	DNX	7.233	5.215	5.032	4.659	4.321	4.387	4.361	5.030 E3	20.51

---- Linear regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 4368.49679 *A

4)	MNX	3.694	3.558	3.567	3.744	3.597	3.666	3.680	3.644 E3	1.93
5)	RDX	3.270	2.950	2.911	3.075	2.925	2.966	2.971	3.010 E3	4.20
6)	1,3,5-Trinitroben	6.350	6.312	6.177	6.105	6.124	6.220	6.278	6.224 E3	1.51
7)	1,3-Dinitrobenzen	3.298	3.412	3.400	3.438	3.470	3.520	3.598	3.448 E3	2.76
8)	3,5-Dinitroanilin								0.000	-1.00
9)	Nitrobenzene	2.721	2.955	2.836	2.830	2.852	2.875	2.909	2.854 E3	2.57
10)	Nitroglycerin	1.316	1.158	1.182	1.163	1.170	1.191	1.205	1.198 E3	4.56
11)	Tetryl	5.459	4.443	4.543	4.440	4.486	4.562	4.590	4.646 E3	7.82
12)	2,4,6-Trinitrotol	5.255	4.504	4.543	4.426	4.444	4.523	4.565	4.609 E3	6.28
13)	2-Amino-4,6-Dinit	5.683	5.116	4.957	4.909	4.957	5.046	5.090	5.108 E3	5.18
14)	4-Amino-2,6-Dinit	5.822	5.092	4.999	4.966	5.015	5.108	5.147	5.164 E3	5.76
15)S	3,4-Dinitrotoluen	4.458	4.035	3.896	3.859	3.914	3.999	4.040	4.029 E3	5.02
16)	2,4-Dinitrotoluen	3.687	3.125	2.991	2.948	3.004	3.082	3.115	3.136 E3	8.03
17)	2,6-Dinitrotoluen	3.404	3.357	3.231	3.263	3.362	3.470	3.508	3.371 E3	2.99

Initial Calibration Summary

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: GBB583-ICC583
Lab FileID: BB027928.D

18)	o-Nitrotoluene	2.889	3.269	3.032	3.014	2.963	2.976	2.992	3.019	E3	3.94
19)	p-Nitrotoluene	3.658	2.833	2.941	2.904	2.866	2.857	2.864	2.989	E3	9.94
20)	m-Nitrotoluene	3.814	3.859	3.705	3.566	3.708	3.691	3.729	3.725	E3	2.52
21)	PETN	1.798	1.417	1.456	1.350	1.318	1.334	1.368	1.434	E3	11.66

(#) = Out of Range

8330BPLUS.M Wed May 11 14:38:05 2011

Initial Calibration Verification

Job Number: F82120 **Sample:** GBB583-ICV583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027932.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0510BPL\BB027932.D\dad1B.ch Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\0510BPL\BB027932.D\dad1A.ch
Acq On : 11-May-2011, 13:48:07 Operator: SHANNONL
Sample : ICV583-500 Inst : G1315B
Misc : OP36978,GBB583,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed May 11 13:15:21 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	543.543	-8.7	112	0.00	1.00- 1.60
2	HMX	500.000	558.148	-11.6	114	0.00	1.12- 1.72
3	DNX	500.000	508.402	-1.7	107	0.00	1.37- 1.97
4	MNX	500.000	563.105	-12.6	116	0.00	1.94- 2.54
5	RDX	500.000	490.037	2.0	98	0.00	2.39- 3.19
6	1,3,5-Trinitrobenzene	500.000	518.963	-3.8	105	-0.01	3.88- 4.68
7	1,3-Dinitrobenzene	500.000	465.908	6.8	95	-0.02	5.14- 5.94
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	500.000	465.732	6.9	91	-0.03	6.95- 7.75
10	Nitroglycerin		----------NA----------				
11	Tetryl	500.000	513.438	-2.7	104	-0.05	9.13- 9.93
12	2,4,6-Trinitrotoluene	500.000	473.627	5.3	97	-0.05	9.52-10.32
13	2-Amino-4,6-Dinitrotol	500.000	494.364	1.1	100	-0.05	10.06-10.86
14	4-Amino-2,6-Dinitrotol	500.000	474.909	5.0	96	-0.06	10.58-11.38
15 S	3,4-Dinitrotoluene		----------NA----------				
16	2,4-Dinitrotoluene	500.000	500.166	-0.0	100	-0.06	11.81-12.61
17	2,6-Dinitrotoluene	500.000	507.984	-1.6	99	-0.07	12.38-13.18
18	o-Nitrotoluene	500.000	469.264	6.1	94	-0.09	16.78-17.78
19	p-Nitrotoluene	500.000	462.586	7.5	94	-0.10	17.73-18.73
20	m-Nitrotoluene	500.000	455.591	8.9	93	-0.10	19.40-20.40
21	PETN		----------NA----------				

***** Signal #2 *****

		Amount	Calc.	%Drift			
1	TNX	500.000	550.388	-10.1	111	0.00	1.00- 1.60
		Amount	Calc.	%Drift			
2	HMX	500.000	559.283	-11.9	110	0.00	1.13- 1.73
		Amount	Calc.	%Drift			
3	DNX	500.000	535.560	-7.1	108	0.00	1.37- 1.97
		Amount	Calc.	%Drift			
4	MNX	500.000	581.965	-16.4#	118	0.00	1.94- 2.54
5	RDX	500.000	485.998	2.8	100	0.00	2.39- 3.19
6	1,3,5-Trinitrobenzene	500.000	521.159	-4.2	106	-0.01	3.88- 4.68
7	1,3-Dinitrobenzene	500.000	473.184	5.4	94	-0.02	5.14- 5.94
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	500.000	462.897	7.4	93	-0.03	6.95- 7.75

Initial Calibration Verification

Job Number: F82120
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: GBB583-ICV583
Lab FileID: BB027932.D

10		Nitroglycerin	2500.000	2505.025	-0.2	103	-0.02	8.49- 9.49
11		Tetryl	500.000	506.856	-1.4	105	-0.05	9.13- 9.93
12		2,4,6-Trinitrotoluene	500.000	472.469	5.5	98	-0.05	9.52-10.32
13		2-Amino-4,6-Dinitrotol	500.000	489.243	2.2	101	-0.05	10.06-10.86
14		4-Amino-2,6-Dinitrotol	500.000	478.897	4.2	99	-0.06	10.58-11.38
15	S	3,4-Dinitrotoluene	----------NA----------					
16		2,4-Dinitrotoluene	500.000	479.092	4.2	100	-0.06	11.81-12.61
17		2,6-Dinitrotoluene	500.000	501.962	-0.4	101	-0.07	12.38-13.18
18		o-Nitrotoluene	500.000	450.764	9.8	92	-0.09	16.77-17.77
19		p-Nitrotoluene	500.000	443.384	11.3	92	-0.09	17.73-18.73
20		m-Nitrotoluene	500.000	459.898	8.0	92	-0.10	19.40-20.40
21		PETN	2500.000	2537.766	-1.5	111	-0.11	24.73-26.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB027927.D 8330BPLUS.M Wed May 11 14:37:53 2011

Continuing Calibration Summary

Job Number: F82120 **Sample:** GBB585-CC583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027977.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0512BPL\BB027977.D\dad1B.ch Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\0512BPL\BB027977.D\dad1A.ch
Acq On : 12-May-2011, 15:51:47 Operator: SHANNONL
Sample : CC583-500 Inst : G1315B
Misc : OP37125,GBB585,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri May 13 09:03:23 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	495.507	0.9	102	0.00	1.00- 1.60
2	HMX	500.000	506.270	-1.3	104	0.00	1.12- 1.72
3	DNX	500.000	487.945	2.4	103	0.00	1.36- 1.96
4	MNX	500.000	481.842	3.6	99	0.00	1.92- 2.52
5	RDX	500.000	504.629	-0.9	101	0.01	2.37- 3.17
6	1,3,5-Trinitrobenzene	500.000	505.049	-1.0	103	0.02	3.84- 4.64
7	1,3-Dinitrobenzene	500.000	509.791	-2.0	104	0.02	5.09- 5.89
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	500.000	490.364	1.9	96	0.03	6.89- 7.69
10	Nitroglycerin		----------NA----------				
11	Tetryl	500.000	504.723	-0.9	102	0.05	9.00- 9.80
12	2,4,6-Trinitrotoluene	500.000	501.983	-0.4	103	0.05	9.40-10.20
13	2-Amino-4,6-Dinitrotol	500.000	507.724	-1.5	103	0.05	9.91-10.71
14	4-Amino-2,6-Dinitrotol	500.000	503.589	-0.7	102	0.05	10.43-11.23
15 S	3,4-Dinitrotoluene	500.000	508.926	-1.8	103	0.06	10.97-11.77
16	2,4-Dinitrotoluene	500.000	519.669	-3.9	104	0.06	11.66-12.46
17	2,6-Dinitrotoluene	500.000	523.836	-4.8	103	0.06	12.23-13.03
18	o-Nitrotoluene	500.000	477.387	4.5	96	0.08	16.60-17.60
19	p-Nitrotoluene	500.000	477.296	4.5	97	0.08	17.53-18.53
20	m-Nitrotoluene	500.000	467.662	6.5	96	0.09	19.19-20.19
21	PETN		----------NA----------				

***** Signal #2 *****

		Amount	Calc.	%Drift			
1	TNX	500.000	499.620	0.1	101	0.00	1.00- 1.60
		Amount	Calc.	%Drift			
2	HMX	500.000	518.561	-3.7	102	0.00	1.13- 1.73
		Amount	Calc.	%Drift			
3	DNX	500.000	506.935	-1.4	103	0.00	1.36- 1.96
		Amount	Calc.	%Drift			
4	MNX	500.000	507.423	-1.5	103	0.00	1.92- 2.52
5	RDX	500.000	503.632	-0.7	104	0.01	2.37- 3.17
6	1,3,5-Trinitrobenzene	500.000	503.365	-0.7	102	0.02	3.84- 4.64
7	1,3-Dinitrobenzene	500.000	520.241	-4.0	103	0.02	5.09- 5.89
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	500.000	486.230	2.8	97	0.03	6.89- 7.69

Continuing Calibration Summary

Job Number: F82120 **Sample:** GBB585-CC583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027977.D
Project: Melrose Air Force Range, NM

10		Nitroglycerin	2500.000	2555.939	-2.2	105	0.05	8.40- 9.40
11		Tetryl	500.000	498.800	0.2	103	0.05	9.00- 9.80
12		2,4,6-Trinitrotoluene	500.000	497.059	0.6	103	0.05	9.40-10.20
13		2-Amino-4,6-Dinitrotol	500.000	500.106	-0.0	103	0.05	9.91-10.71
14		4-Amino-2,6-Dinitrotol	500.000	498.804	0.2	103	0.05	10.43-11.23
15	S	3,4-Dinitrotoluene	500.000	504.580	-0.9	104	0.06	10.97-11.77
16		2,4-Dinitrotoluene	500.000	504.447	-0.9	105	0.06	11.66-12.46
17		2,6-Dinitrotoluene	500.000	520.328	-4.1	104	0.06	12.23-13.03
18		o-Nitrotoluene	500.000	475.294	4.9	97	0.08	16.60-17.60
19		p-Nitrotoluene	500.000	466.321	6.7	97	0.08	17.53-18.53
20		m-Nitrotoluene	500.000	480.386	3.9	97	0.09	19.19-20.19
21		PETN	2500.000	2313.505	7.5	101	0.15	24.48-26.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB027927.D 8330BPLUS.M Fri May 13 12:42:40 2011

Continuing Calibration Summary

Job Number: F82120 **Sample:** GBB585-CC583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027988.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0512BPL\BB027988.D\dad1B.ch Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\0512BPL\BB027988.D\dad1A.ch
Acq On : 12-May-2011, 21:43:29 Operator: SHANNONL
Sample : CC583-1000 Inst : G1315B
Misc : OP37090,GBB585,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri May 13 09:03:23 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	1013.687	-1.4	104	0.00	1.00- 1.60
2	HMX	1000.000	1038.456	-3.8	104	0.00	1.12- 1.72
3	DNX	1000.000	997.356	0.3	104	0.00	1.36- 1.96
4	MNX	1000.000	1014.879	-1.5	106	0.00	1.92- 2.52
5	RDX	1000.000	1036.557	-3.7	106	0.00	2.37- 3.17
6	1,3,5-Trinitrobenzene	1000.000	1036.716	-3.7	103	0.00	3.84- 4.64
7	1,3-Dinitrobenzene	1000.000	1030.664	-3.1	103	0.00	5.09- 5.89
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	1000.000	1011.528	-1.2	99	0.00	6.89- 7.69
10	Nitroglycerin		----------NA----------				
11	Tetryl	1000.000	1015.839	-1.6	102	0.00	9.00- 9.80
12	2,4,6-Trinitrotoluene	1000.000	1026.650	-2.7	104	0.00	9.40-10.20
13	2-Amino-4,6-Dinitrotol	1000.000	1032.320	-3.2	103	0.00	9.91-10.71
14	4-Amino-2,6-Dinitrotol	1000.000	1025.424	-2.5	103	0.00	10.43-11.23
15 S	3,4-Dinitrotoluene	1000.000	1024.380	-2.4	102	0.00	10.97-11.77
16	2,4-Dinitrotoluene	1000.000	1048.479	-4.8	103	0.00	11.66-12.46
17	2,6-Dinitrotoluene	1000.000	1051.592	-5.2	101	0.00	12.23-13.03
18	o-Nitrotoluene	1000.000	986.100	1.4	99	0.00	16.60-17.60
19	p-Nitrotoluene	1000.000	987.238	1.3	99	0.00	17.53-18.53
20	m-Nitrotoluene	1000.000	975.369	2.5	98	0.00	19.19-20.19
21	PETN		----------NA----------				

***** Signal #2 *****

		Amount	Calc.	%Drift			
1	TNX	1000.000	1021.265	-2.1	103	0.00	1.00- 1.60
		Amount	Calc.	%Drift			
2	HMX	1000.000	1056.662	-5.7	102	0.00	1.13- 1.73
		Amount	Calc.	%Drift			
3	DNX	1000.000	1031.668	-3.2	103	0.00	1.36- 1.96
		Amount	Calc.	%Drift			
4	MNX	1000.000	1044.194	-4.4	104	0.00	1.92- 2.52
5	RDX	1000.000	1029.174	-2.9	104	0.00	2.37- 3.17
6	1,3,5-Trinitrobenzene	1000.000	1029.914	-3.0	103	0.00	3.84- 4.64
7	1,3-Dinitrobenzene	1000.000	1052.827	-5.3	103	0.00	5.09- 5.89
8	3,5-Dinitroaniline		----------NA----------				
9	Nitrobenzene	1000.000	1014.503	-1.5	101	0.00	6.89- 7.69

Continuing Calibration Summary

Job Number: F82120 **Sample:** GBB585-CC583
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB027988.D
Project: Melrose Air Force Range, NM

10		Nitroglycerin	5000.000	5166.857	-3.3	104	0.00	8.40- 9.40
11		Tetryl	1000.000	1002.944	-0.3	102	0.00	9.00- 9.80
12		2,4,6-Trinitrotoluene	1000.000	1018.830	-1.9	104	0.00	9.40-10.20
13		2-Amino-4,6-Dinitrotol	1000.000	1019.447	-1.9	103	0.00	9.91-10.71
14		4-Amino-2,6-Dinitrotol	1000.000	1016.997	-1.7	103	0.00	10.43-11.23
15	S	3,4-Dinitrotoluene	1000.000	1016.870	-1.7	102	0.00	10.97-11.77
16		2,4-Dinitrotoluene	1000.000	1016.420	-1.6	103	0.00	11.66-12.46
17		2,6-Dinitrotoluene	1000.000	1058.433	-5.8	103	0.00	12.23-13.03
18		o-Nitrotoluene	1000.000	968.218	3.2	98	0.00	16.60-17.60
19		p-Nitrotoluene	1000.000	947.763	5.2	99	0.00	17.53-18.53
20		m-Nitrotoluene	1000.000	980.899	1.9	99	0.00	19.19-20.19
21		PETN	5000.000	4866.685	2.7	105	0.00	24.48-26.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB027928.D 8330BPLUS.M Fri May 13 12:42:59 2011

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:42	MA8946-STD1	1		STDA
05:45	MA8946-STD2	1		STDB
05:48	MA8946-STD3	1		STDC
05:52	MA8946-HSTD1	1		
05:56	MA8946-ICV1	1		
06:03	MA8946-ICB1	1		
06:07	MA8946-CRIA1	1		
06:12	MA8946-CRIA2	1		
06:20	MA8946-ICSA1	1		
06:25	MA8946-ICSAB1	1		
06:32	MA8946-CCV1	1		
06:38	MA8946-CCB1	1		
06:42	ZZZZZZ	100		
06:46	ZZZZZZ	10		
06:50	ZZZZZZ	10		
06:55	ZZZZZZ	10		
06:59	ZZZZZZ	10		
07:03	ZZZZZZ	20		
07:16	ZZZZZZ	2		
07:20	ZZZZZZ	10		
07:25	MA8946-CCV2	1		
07:29	MA8946-CCB2	1		
07:33	ZZZZZZ	10		
07:37	ZZZZZZ	5		
07:50	ZZZZZZ	10		
07:54	ZZZZZZ	5		
08:03	ZZZZZZ	2		
08:07	ZZZZZZ	2		
08:12	MA8946-CCV3	1		
08:16	MA8946-CCB3	1		
13:17	MA8946-CCV4	1		
13:26	MA8946-CCB4	1		
13:30	MP20568-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:34	MP20568-B1	1		
13:38	F82129-1	1		(sample used for QC only; not part of login F82120)
13:43	MP20568-D1	1		
13:47	MP20568-SD1	5		
13:51	MP20568-PS1	1		
13:55	MP20568-S1	1		
14:00	MP20568-S2	1		
14:04	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:12	MA8946-CCV5	1		
14:16	MA8946-CCB5	1		
14:20	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:46	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:55	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:03	MA8946-CCV6	1		
15:07	MA8946-CCB6	1		
15:12	ZZZZZZ	1		
15:16	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:42	MP20570-MB1	1		
15:47	MP20570-B1	1		
15:51	F82095-5	1		(sample used for QC only; not part of login F82120)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:55	MA8946-CCV7	1		
15:59	MA8946-CCB7	1		
16:04	MP20570-D1	1		
16:08	MP20570-SD1	5		
16:13	MP20570-PS1	1		
16:17	MP20570-S1	1		
16:22	MP20570-S2	1		
16:26	ZZZZZZ	1		
16:31	ZZZZZZ	1		
16:35	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:45	ZZZZZZ	1		
16:49	MA8946-CCV8	1		
16:53	MA8946-CCB8	1		
16:58	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:15	ZZZZZZ	1		
17:19	ZZZZZZ	1		
17:23	F82120-1	1		
17:28	F82120-1F	1		
---------->	Last reportable sample/prep for job F82120			
17:32	ZZZZZZ	1		
17:37	ZZZZZZ	1		
17:41	MA8946-CCV9	1		
17:45	MA8946-CCB9	1		
17:49	ZZZZZZ	1		
17:54	ZZZZZZ	1		
17:58	ZZZZZZ	1		
18:02	ZZZZZZ	1		
18:07	MP20572-MB1	1		
18:11	MP20572-B1	1		
18:15	F82144-15	1		(sample used for QC only; not part of login F82120)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:19	MP20572-D1	1		
18:24	MP20572-SD1	5		
18:28	MP20572-PS1	1		
18:32	MA8946-CCV10	1		
18:36	MA8946-CCB10	1		
18:41	MP20572-S1	1		
18:45	MP20572-S2	1		
18:49	ZZZZZZ	1		
18:53	ZZZZZZ	1		
18:58	ZZZZZZ	1		
19:02	ZZZZZZ	1		
19:06	ZZZZZZ	1		
19:11	ZZZZZZ	1		
19:15	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:24	MA8946-CCV11	1		
19:28	MA8946-CCB11	1		
19:32	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:41	ZZZZZZ	1		
19:45	ZZZZZZ	1		
19:49	ZZZZZZ	1		
19:54	MP20573-MB1	1		
19:58	MP20573-B1	1		
20:02	F82340-4	1		(sample used for QC only; not part of login F82120)
20:06	MP20573-D1	1		
20:11	MP20573-SD1	5		
20:15	MA8946-CCV12	1		
20:19	MA8946-CCB12	1		
20:23	MP20573-PS1	1		
20:28	MP20573-S1	1		
20:32	MP20573-S2	1		
20:36	MP20571-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:40	MP20571-B1	1		
20:45	F82097-9	1		(sample used for QC only; not part of login F82120)
20:49	MP20571-D1	1		
20:54	MP20571-SD1	5		
20:58	MP20571-PS1	1		
21:02	MP20571-S1	1		
21:07	MA8946-CCV13	1		
21:10	MA8946-CCB13	1		
21:15	MP20571-S2	1		
21:19	ZZZZZZ	1		
21:24	ZZZZZZ	1		
21:28	ZZZZZZ	1		
21:32	ZZZZZZ	1		
21:37	ZZZZZZ	1		
21:41	ZZZZZZ	1		
21:46	ZZZZZZ	1		
21:50	ZZZZZZ	1		
21:54	ZZZZZZ	1		
21:59	MA8946-CCV14	1		
22:03	MA8946-CCB14	1		
22:07	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:20	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:29	ZZZZZZ	1		
22:33	ZZZZZZ	1		
22:38	ZZZZZZ	1		
22:42	ZZZZZZ	1		
22:47	MP20574-MB1	1		
22:51	MA8946-CCV15	1		
22:55	MA8946-CCB15	1		
22:59	MP20574-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:03	F82131-1	1		(sample used for QC only; not part of login F82120)
23:08	MP20574-D1	1		
23:12	MP20574-SD1	5		
23:16	MP20574-PS1	1		
23:20	MP20574-S1	1		
23:24	MP20574-S2	1		
23:29	ZZZZZZ	1		
23:33	ZZZZZZ	1		
23:37	ZZZZZZ	1		
23:41	MA8946-CCV16	1		
23:45	MA8946-CCB16	1		
23:50	ZZZZZZ	1		
23:54	ZZZZZZ	1		
23:58	ZZZZZZ	1		
00:03	ZZZZZZ	1		
00:07	ZZZZZZ	1		
00:12	ZZZZZZ	1		
00:16	ZZZZZZ	1		
00:20	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:29	ZZZZZZ	1		
00:33	MA8946-CCV17	1		
00:37	MA8946-CCB17	1		
00:41	ZZZZZZ	1		
00:46	ZZZZZZ	1		
00:50	ZZZZZZ	1		
00:54	ZZZZZZ	1		
00:59	ZZZZZZ	1		
01:03	ZZZZZZ	1		
01:07	MA8946-CRIA3	1		
01:11	MA8946-ICSA2	1		
01:16	MA8946-ICSAB2	1		
01:20	MA8946-CCV18	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:24	MA8946-CCB18	1		
---------->	Last reportable CCB for job F82120			
	Refer to raw data for calibration curve and standards.			

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INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:42	MA8946-STD1	1113	16184	6685	595
05:45	MA8946-STD2	1027	15165	6579	481
05:48	MA8946-STD3	995	14565	6459	441
05:52	MA8946-HSTD1	998	14524	6432	441
05:56	MA8946-ICV1	1051	15066	6552	491
06:03	MA8946-ICB1	1120 R	16292 R	6821 R	601 R
06:07	MA8946-CRIA1	1082	15840	6631	557
06:12	MA8946-CRIA2	1086	15726	6626	999999 !
06:20	MA8946-ICSA1	940	13471	6373	398
06:25	MA8946-ICSAB1	929	13237	6322	392
06:32	MA8946-CCV1	1024	14964	6576	482
06:38	MA8946-CCB1	1107	16132	6726	597
06:42	ZZZZZZ	1110	16043	6732	580
06:46	ZZZZZZ	1099	15925	6887	511
06:50	ZZZZZZ	1073	15404	6893	484
06:55	ZZZZZZ	1068	15239	6842	472
06:59	ZZZZZZ	1058	15273	6825	476
07:03	ZZZZZZ	1004	14521	6597	440
07:16	ZZZZZZ	1037	15402	7107	436
07:20	ZZZZZZ	1042	15172	6785	473
07:25	MA8946-CCV2	1034	14856	6491	485
07:29	MA8946-CCB2	1115	16209	6795	598
07:33	ZZZZZZ	1031	14891	6684	473
07:37	ZZZZZZ	1023	14779	6634	454
07:50	ZZZZZZ	1028	14946	6589	461
07:54	ZZZZZZ	1030	14910	6548	482
08:03	ZZZZZZ	1311	19119	8132	536
08:07	ZZZZZZ	974	14236	6975	334 !
08:12	MA8946-CCV3	1030	14974	6533	485
08:16	MA8946-CCB3	1116	16358	6757	604
13:17	MA8946-CCV4	1044	15295	6656	489
13:26	MA8946-CCB4	1116	16248	6614	600
13:30	MP20568-MB1	1078	16055	6627	578

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:34	MP20568-B1	1038	15360	6620	508
13:38	F82129-1	1089	16014	6585	578
13:43	MP20568-D1	1079	16026	6558	572
13:47	MP20568-SD1	1119	16498	6750	593
13:51	MP20568-PS1	1068	15731	6616	546
13:55	MP20568-S1	1059	15376	6581	514
14:00	MP20568-S2	1057	15330	6498	512
14:04	ZZZZZZ	1092	16265	6721	576
14:08	ZZZZZZ	1091	16167	6685	578
14:12	MA8946-CCV5	1049	15331	6607	492
14:16	MA8946-CCB5	1129	16581	6772	607
14:20	ZZZZZZ	1081	16106	6714	571
14:25	ZZZZZZ	1089	16136	6753	577
14:29	ZZZZZZ	1086	16007	6636	575
14:33	ZZZZZZ	6034 !	86322 !	40191 !	404
14:38	ZZZZZZ	1230	17885	7504	542
14:42	ZZZZZZ	1109	16251	6826	544
14:46	ZZZZZZ	1077	16043	6672	564
14:51	ZZZZZZ	1091	15820	6686	545
14:55	ZZZZZZ	1094	16124	6715	568
14:59	ZZZZZZ	1083	15863	6624	560
15:03	MA8946-CCV6	1064	15179	6461	496
15:07	MA8946-CCB6	1135	16647	6742	606
15:12	ZZZZZZ	1088	16152	6601	578
15:16	ZZZZZZ	1101	16281	6589	584
15:20	ZZZZZZ	948	13478	6232	417
15:25	ZZZZZZ	1006	14209	6366	453
15:29	ZZZZZZ	949	13419	6179	420
15:33	ZZZZZZ	906	12712	6158	394
15:38	ZZZZZZ	874	12402	6039	374
15:42	MP20570-MB1	1088	16281	6709	582
15:47	MP20570-B1	1055	15413	6534	513
15:51	F82095-5	887	12893	6046	392

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:55	MA8946-CCV7	1045	15339	6641	490
15:59	MA8946-CCB7	1129	16739	6883	605
16:04	MP20570-D1	885	12895	6110	390
16:08	MP20570-SD1	1017	14796	6601	484
16:13	MP20570-PS1	889	12918	6059	389
16:17	MP20570-S1	897	13143	6141	380
16:22	MP20570-S2	898	13114	6110	380
16:26	ZZZZZZ	929	13784	6282	427
16:31	ZZZZZZ	995	14638	6436	474
16:35	ZZZZZZ	892	13148	6133	391
16:40	ZZZZZZ	927	13520	6267	400
16:45	ZZZZZZ	883	12772	6017	390
16:49	MA8946-CCV8	1051	15283	6496	492
16:53	MA8946-CCB8	1140	16670	6733	605
16:58	ZZZZZZ	1033	15200	6455	521
17:02	ZZZZZZ	1039	15404	6572	524
17:06	ZZZZZZ	1017	14945	6408	502
17:10	ZZZZZZ	1032	15070	6415	514
17:15	ZZZZZZ	1000	14712	6366	492
17:19	ZZZZZZ	1025	15186	6555	510
17:23	F82120-1	883	12550	6051	380
17:28	F82120-1F	884	12567	6061	381
17:32	ZZZZZZ	986	14311	6349	463
17:37	ZZZZZZ	963	14267	6448	457
17:41	MA8946-CCV9	1036	15397	6692	486
17:45	MA8946-CCB9	1123	16698	6898	603
17:49	ZZZZZZ	960	14130	6430	446
17:54	ZZZZZZ	1020	15145	6664	484
17:58	ZZZZZZ	1049	15301	6927	442
18:02	ZZZZZZ	1047	15325	6817	458
18:07	MP20572-MB1	1086	16385	6718	581
18:11	MP20572-B1	1047	15420	6592	511
18:15	F82144-15	1012	14888	6510	490

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:19	MP20572-D1	1014	14941	6491	493
18:24	MP20572-SD1	1096	16175	6751	562
18:28	MP20572-PS1	1009	14953	6589	486
18:32	MA8946-CCV10	1042	15332	6596	487
18:36	MA8946-CCB10	1130	16679	6758	605
18:41	MP20572-S1	1013	14756	6516	468
18:45	MP20572-S2	1020	14865	6528	471
18:49	ZZZZZZ	1066	15921	6709	542
18:53	ZZZZZZ	1019	15052	6529	496
18:58	ZZZZZZ	1021	15153	6581	499
19:02	ZZZZZZ	1040	15502	6622	523
19:06	ZZZZZZ	1019	15052	6551	500
19:11	ZZZZZZ	1009	14991	6549	492
19:15	ZZZZZZ	1038	15466	6665	516
19:19	ZZZZZZ	1064	15781	6628	538
19:24	MA8946-CCV11	1055	15577	6671	495
19:28	MA8946-CCB11	1146	17012	6836	615
19:32	ZZZZZZ	1031	15280	6485	510
19:36	ZZZZZZ	1030	15146	6491	495
19:41	ZZZZZZ	1070	15833	6608	544
19:45	ZZZZZZ	1012	14887	6446	473
19:49	ZZZZZZ	1071	15794	6599	541
19:54	MP20573-MB1	1149	16892	6804	617
19:58	MP20573-B1	1118	16269	6773	542
20:02	F82340-4	1039	15179	6731	485
20:06	MP20573-D1	1034	15131	6802	482
20:11	MP20573-SD1	1084	16201	6986	549
20:15	MA8946-CCV12	1047	15709	6729	491
20:19	MA8946-CCB12	1131	17029	6996	613
20:23	MP20573-PS1	1029	15032	6774	478
20:28	MP20573-S1	1036	15193	6756	464
20:32	MP20573-S2	1051	15287	6771	466
20:36	MP20571-MB1	1109	16717	6797	592

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:40	MP20571-B1	1070	15863	6690	521
20:45	F82097-9	995	14795	6541	445
20:49	MP20571-D1	1003	14686	6446	446
20:54	MP20571-SD1	1089	16064	6757	532
20:58	MP20571-PS1	1001	14617	6470	445
21:02	MP20571-S1	995	14625	6518	436
21:07	MA8946-CCV13	1071	15862	6695	501
21:10	MA8946-CCB13	1147	17250	6953	616
21:15	MP20571-S2	985	14535	6581	432
21:19	ZZZZZZ	1012	15044	6612	477
21:24	ZZZZZZ	988	14627	6509	444
21:28	ZZZZZZ	989	14597	6527	453
21:32	ZZZZZZ	1023	14923	6703	444
21:37	ZZZZZZ	960	14216	6429	441
21:41	ZZZZZZ	997	14916	6682	468
21:46	ZZZZZZ	989	14926	6746	475
21:50	ZZZZZZ	1017	15364	6720	505
21:54	ZZZZZZ	999	15093	6654	490
21:59	MA8946-CCV14	1058	15858	6755	498
22:03	MA8946-CCB14	1139	17177	7039	620
22:07	ZZZZZZ	962	14490	6571	455
22:11	ZZZZZZ	964	14482	6591	459
22:16	ZZZZZZ	1012	15104	6730	485
22:20	ZZZZZZ	960	14526	6568	443
22:25	ZZZZZZ	993	15046	6748	468
22:29	ZZZZZZ	901	13777	6475	417
22:33	ZZZZZZ	945	14479	6694	453
22:38	ZZZZZZ	1004	15340	6813	498
22:42	ZZZZZZ	953	14334	6673	438
22:47	MP20574-MB1	1092	16639	6840	589
22:51	MA8946-CCV15	1052	15863	6803	497
22:55	MA8946-CCB15	1130	17154	7047	616
22:59	MP20574-B1	1044	15760	6782	516

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:03	F82131-1	1196	17630	7695	494
23:08	MP20574-D1	1195	17518	7661	490
23:12	MP20574-SD1	1145	17230	7224	565
23:16	MP20574-PS1	1182	17487	7664	488
23:20	MP20574-S1	1162	17130	7574	469
23:24	MP20574-S2	1216	17919	7996	454
23:29	ZZZZZZ	1178	17357	7521	502
23:33	ZZZZZZ	1209	17810	7703	492
23:37	ZZZZZZ	1183	17532	7707	483
23:41	MA8946-CCV16	1064	15946	6828	501
23:45	MA8946-CCB16	1148	17251	7033	620
23:50	ZZZZZZ	1212	17729	7735	482
23:54	ZZZZZZ	1305	18866	8269	487
23:58	ZZZZZZ	1231	17685	7825	444
00:03	ZZZZZZ	1103	16196	7544	368
00:07	ZZZZZZ	1047	15927	7684	307 !
00:12	ZZZZZZ	1263	18265	7873	519
00:16	ZZZZZZ	1012	15260	7056	364
00:20	ZZZZZZ	1272	18275	7860	496
00:25	ZZZZZZ	1664 !	24453 !	10296 !	521
00:29	ZZZZZZ	1096	16548	7133	414
00:33	MA8946-CCV17	1075	16121	6777	503
00:37	MA8946-CCB17	1158	17257	6895	623
00:41	ZZZZZZ	1277	18359	7824	513
00:46	ZZZZZZ	3593 !	53221 !	22948 !	439
00:50	ZZZZZZ	1016	15317	6861	413
00:54	ZZZZZZ	1652 !	24827 !	10853 !	383
00:59	ZZZZZZ	2902 !	42785 !	18073 !	476
01:03	ZZZZZZ	1199	17757	7573	440
01:07	MA8946-CRIA3	1125	16841	6764	582
01:11	MA8946-ICSA2	963	14206	6462	409
01:16	MA8946-ICSAB2	961	14048	6425	404
01:20	MA8946-CCV18	1065	15831	6658	499

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8946
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:24	MA8946-CCB18	1141	17059	6775	618

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8946 Units: ug/l

Time: / Sample ID:			06:03 ICB1		06:38 CCB1		07:29 CCB2		08:16 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	2.4	<200	8.2	<200	7.9	<200	7.3	<200
Antimony	6.0	1	-0.90	<6.0	0.20	<6.0	-1.7	<6.0	-0.80	<6.0
Arsenic	10	1	-0.50	<10	-2.1	<10	-0.80	<10	-0.20	<10
Barium	200	1	0.10	<200	0.10	<200	0.40	<200	0.20	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.40	<4.0	0.20	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.30	<5.0	0.20	<5.0
Calcium	1000	50	0.60	<1000	9.8	<1000	21.0	<1000	47.9	<1000
Chromium	10	1	0.10	<10	-0.10	<10	0.10	<10	0.30	<10
Cobalt	50	1	0.0	<50	0.0	<50	0.20	<50	0.0	<50
Copper	25	1	0.30	<25	0.50	<25	0.70	<25	0.40	<25
Iron	300	34	-0.80	<300	1.3	<300	10.4	<300	7.4	<300
Lead	5.0	1	0.60	<5.0	0.30	<5.0	0.40	<5.0	1.8	<5.0
Magnesium	5000	50	-11	<5000	3.4	<5000	-2.6	<5000	-3.5	<5000
Manganese	15	1	0.20	<15	0.20	<15	0.40	<15	0.30	<15
Molybdenum	50	1								
Nickel	40	1	0.0	<40	0.10	<40	0.30	<40	-0.20	<40
Potassium	10000	50	-28	<10000	-26	<10000	4.3	<10000	-14	<10000
Selenium	10	2	-2.3	<10	-1.9	<10	0.90	<10	-1.1	<10
Silver	10	1	-0.20	<10	0.30	<10	0.10	<10	0.0	<10
Sodium	10000	750	0.90	<10000	4.5	<10000	10.5	<10000	6.1	<10000
Strontium	10	1								
Thallium	10	1	-1.9	<10	-0.70	<10	-0.20	<10	-1.0	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	-0.10	<50	0.10	<50	0.40	<50	0.40	<50
Zinc	20	1	0.30	<20	0.0	<20	0.20	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8946 Units: ug/l

Time:			13:26		14:16		15:07		15:59	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-1.1	<200	0.90	<200	4.5	<200	5.3	<200
Antimony	6.0	1	0.0	<6.0	-1.7	<6.0	0.20	<6.0	-0.30	<6.0
Arsenic	10	1	0.20	<10	-0.20	<10	0.80	<10	-1.1	<10
Barium	200	1	0.0	<200	0.10	<200	0.20	<200	0.10	<200
Beryllium	4.0	.1	0.0	<4.0	0.0	<4.0	0.30	<4.0	0.10	<4.0
Cadmium	5.0	.1	0.10	<5.0	0.20	<5.0	0.40	<5.0	0.20	<5.0
Calcium	1000	50	1.6	<1000	3.2	<1000	7.9	<1000	10.9	<1000
Chromium	10	1	0.0	<10	-0.20	<10	-0.10	<10	0.40	<10
Cobalt	50	1	0.10	<50	0.20	<50	0.20	<50	0.20	<50
Copper	25	1	0.10	<25	-0.10	<25	0.10	<25	-0.20	<25
Iron	300	34	-2.7	<300	5.2	<300	5.5	<300	4.5	<300
Lead	5.0	1	-0.40	<5.0	-0.20	<5.0	0.70	<5.0	-0.10	<5.0
Magnesium	5000	50	-17	<5000	-14	<5000	-15	<5000	-7.3	<5000
Manganese	15	1	0.0	<15	0.10	<15	0.50	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	-0.20	<40	-0.10	<40	0.40	<40	0.40	<40
Potassium	10000	50	-24	<10000	-8.8	<10000	-2.4	<10000	-4.2	<10000
Selenium	10	2	-0.90	<10	-1.4	<10	-0.10	<10	-2.8	<10
Silver	10	1	0.20	<10	0.0	<10	0.30	<10	-0.20	<10
Sodium	10000	750	-2.7	<10000	1.8	<10000	4.9	<10000	79.1	<10000
Strontium	10	1								
Thallium	10	1	0.20	<10	-0.10	<10	-2.2	<10	-1.6	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.10	<50	0.10	<50	0.20	<50	0.10	<50
Zinc	20	1	0.0	<20	0.20	<20	0.30	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8946 Units: ug/l

Time: / Sample ID:			16:53 CCB8		17:45 CCB9		18:36 CCB10		19:28 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	2.2	<200	0.10	<200	5.0	<200	-0.30	<200
Antimony	6.0	1	-0.20	<6.0	0.40	<6.0	-0.40	<6.0	-0.60	<6.0
Arsenic	10	1	1.3	<10	0.60	<10	-1.3	<10	0.50	<10
Barium	200	1	0.20	<200	0.10	<200	0.30	<200	0.20	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.20	<4.0	0.10	<4.0
Cadmium	5.0	.1	0.20	<5.0	0.20	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	11.7	<1000	6.2	<1000	6.6	<1000	4.8	<1000
Chromium	10	1	0.10	<10	0.0	<10	-0.10	<10	-0.10	<10
Cobalt	50	1	0.30	<50	0.40	<50	0.20	<50	0.30	<50
Copper	25	1	-0.10	<25	-0.20	<25	0.0	<25	-0.40	<25
Iron	300	34	4.9	<300	2.7	<300	4.1	<300	1.6	<300
Lead	5.0	1	1.0	<5.0	2.1	<5.0*(a)	0.70	<5.0	0.30	<5.0
Magnesium	5000	50	-9.6	<5000	2.3	<5000	-6.2	<5000	-16	<5000
Manganese	15	1	0.40	<15	0.20	<15	0.30	<15	0.30	<15
Molybdenum	50	1								
Nickel	40	1	0.10	<40	0.40	<40	0.10	<40	-0.20	<40
Potassium	10000	50	-26	<10000	-11	<10000	-26	<10000	-19	<10000
Selenium	10	2	1.1	<10	-1.6	<10	2.6	<10* (a)	0.0	<10
Silver	10	1	-0.20	<10	0.20	<10	0.10	<10	-0.20	<10
Sodium	10000	750	98.7	<10000	80.1	<10000	37.3	<10000	25.1	<10000
Strontium	10	1								
Thallium	10	1	-0.30	<10	0.0	<10	-0.90	<10	0.40	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.30	<50	0.30	<50	0.40	<50	0.70	<50
Zinc	20	1	0.20	<20	0.10	<20	0.20	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) All associated samples with results >MDL "B" coded.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8946 Units: ug/l

Time:			20:19		21:10		22:03		22:55	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	-1.5	<200	0.10	<200	1.6	<200	0.80	<200
Antimony	6.0	1	-0.30	<6.0	-1.0	<6.0	-0.50	<6.0	-0.30	<6.0
Arsenic	10	1	-0.30	<10	-0.90	<10	-0.70	<10	0.10	<10
Barium	200	1	0.20	<200	0.20	<200	0.0	<200	0.0	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.10	<4.0	0.10	<4.0
Cadmium	5.0	.1	0.10	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	1.8	<1000	5.2	<1000	3.3	<1000	2.0	<1000
Chromium	10	1	0.30	<10	-0.20	<10	-0.30	<10	0.20	<10
Cobalt	50	1	0.30	<50	0.20	<50	0.10	<50	0.20	<50
Copper	25	1	-0.20	<25	-0.50	<25	-0.30	<25	0.0	<25
Iron	300	34	0.30	<300	0.90	<300	1.9	<300	1.5	<300
Lead	5.0	1	0.60	<5.0	1.0	<5.0	1.0	<5.0	1.0	<5.0
Magnesium	5000	50	14.2	<5000	-2.4	<5000	1.3	<5000	-13	<5000
Manganese	15	1	0.20	<15	0.10	<15	0.20	<15	0.20	<15
Molybdenum	50	1								
Nickel	40	1	0.0	<40	-0.10	<40	-0.30	<40	0.10	<40
Potassium	10000	50	-13	<10000	-7.6	<10000	-19	<10000	-33	<10000
Selenium	10	2	-1.2	<10	-2.7	<10	-1.6	<10	0.40	<10
Silver	10	1	-0.20	<10	-0.10	<10	0.0	<10	-0.30	<10
Sodium	10000	750	33.4	<10000	39.0	<10000	37.0	<10000	38.5	<10000
Strontium	10	1								
Thallium	10	1	0.30	<10	0.20	<10	0.30	<10	-0.20	<10
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	0.30	<50	0.10	<50	0.20	<50	0.40	<50
Zinc	20	1	0.0	<20	0.10	<20	0.20	<20	-0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8946 Units: ug/l

Time:			23:45		00:37		01:24	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	20	6.6	<200	6.3	<200	11.3	<200
Antimony	6.0	1	-0.40	<6.0	-0.20	<6.0	-1.4	<6.0
Arsenic	10	1	-0.50	<10	-0.90	<10	1.0	<10
Barium	200	1	0.20	<200	0.10	<200	0.10	<200
Beryllium	4.0	.1	0.10	<4.0	0.10	<4.0	0.0	<4.0
Cadmium	5.0	.1	0.30	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	5.6	<1000	4.7	<1000	12.5	<1000
Chromium	10	1	0.10	<10	0.0	<10	-0.10	<10
Cobalt	50	1	0.10	<50	0.20	<50	0.10	<50
Copper	25	1	-0.20	<25	-0.20	<25	-0.50	<25
Iron	300	34	3.9	<300	19.5	<300	7.1	<300
Lead	5.0	1	1.0	<5.0	0.40	<5.0	0.60	<5.0
Magnesium	5000	50	-38	<5000	-1.6	<5000	14.8	<5000
Manganese	15	1	0.40	<15	0.20	<15	0.30	<15
Molybdenum	50	1						
Nickel	40	1	0.10	<40	0.0	<40	-0.30	<40
Potassium	10000	50	-19	<10000	-33	<10000	-23	<10000
Selenium	10	2	0.90	<10	0.10	<10	-1.5	<10
Silver	10	1	-0.20	<10	-0.40	<10	0.10	<10
Sodium	10000	750	13.2	<10000	10.7	<10000	5.8	<10000
Strontium	10	1						
Thallium	10	1	-0.20	<10	-0.60	<10	0.50	<10
Tin	50	1						
Titanium	10	1.1						
Vanadium	50	1	0.60	<50	0.30	<50	0.30	<50
Zinc	20	1	0.20	<20	0.20	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		05:56			06:32			07:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38600	96.5	40000	40100	100.3	40000	40100	100.3
Antimony	2000	1950	97.5	2000	2030	101.5	2000	2020	101.0
Arsenic	2000	1940	97.0	2000	2030	101.5	2000	2020	101.0
Barium	2000	1990	99.5	2000	1980	99.0	2000	1960	98.0
Beryllium	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Cadmium	2000	2030	101.5	2000	2070	103.5	2000	2070	103.5
Calcium	40000	40100	100.3	40000	40700	101.8	40000	41000	102.5
Chromium	2000	2070	103.5	2000	2070	103.5	2000	2100	105.0
Cobalt	2000	2020	101.0	2000	2040	102.0	2000	2030	101.5
Copper	2000	2040	102.0	2000	2010	100.5	2000	2020	101.0
Iron	40000	39500	98.8	40000	40900	102.3	40000	41000	102.5
Lead	2000	1970	98.5	2000	2000	100.0	2000	2000	100.0
Magnesium	40000	38600	96.5	40000	39800	99.5	40000	39700	99.3
Manganese	2000	2080	104.0	2000	2110	105.5	2000	2150	107.5
Molybdenum									
Nickel	2000	2030	101.5	2000	2080	104.0	2000	2080	104.0
Potassium	40000	39400	98.5	40000	40900	102.3	40000	41000	102.5
Selenium	2000	1980	99.0	2000	2020	101.0	2000	2000	100.0
Silver	250	255	102.0	250	254	101.6	250	257	102.8
Sodium	40000	39700	99.3	40000	40600	101.5	40000	40600	101.5
Strontium									
Thallium	2000	2080	104.0	2000	2040	102.0	2000	2040	102.0
Tin									
Titanium									
Vanadium	2000	2030	101.5	2000	2070	103.5	2000	2110	105.5
Zinc	2000	1980	99.0	2000	2030	101.5	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		08:12			13:17			14:12	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39600	99.0	40000	38900	97.3
Antimony	2000	2020	101.0	2000	2010	100.5	2000	1970	98.5
Arsenic	2000	2020	101.0	2000	2010	100.5	2000	1970	98.5
Barium	2000	1960	98.0	2000	1950	97.5	2000	1930	96.5
Beryllium	2000	2010	100.5	2000	1990	99.5	2000	1950	97.5
Cadmium	2000	2080	104.0	2000	2050	102.5	2000	2020	101.0
Calcium	40000	40900	102.3	40000	40300	100.8	40000	39400	98.5
Chromium	2000	2080	104.0	2000	2070	103.5	2000	2020	101.0
Cobalt	2000	2040	102.0	2000	2020	101.0	2000	1980	99.0
Copper	2000	2000	100.0	2000	1990	99.5	2000	1950	97.5
Iron	40000	40700	101.8	40000	40200	100.5	40000	39500	98.8
Lead	2000	2000	100.0	2000	1980	99.0	2000	1950	97.5
Magnesium	40000	39300	98.3	40000	38900	97.3	40000	38200	95.5
Manganese	2000	2120	106.0	2000	2110	105.5	2000	2060	103.0
Molybdenum									
Nickel	2000	2090	104.5	2000	2060	103.0	2000	2030	101.5
Potassium	40000	40900	102.3	40000	40900	102.3	40000	40200	100.5
Selenium	2000	2000	100.0	2000	2000	100.0	2000	1950	97.5
Silver	250	254	101.6	250	251	100.4	250	248	99.2
Sodium	40000	40700	101.8	40000	40600	101.5	40000	39900	99.8
Strontium									
Thallium	2000	2050	102.5	2000	2040	102.0	2000	2010	100.5
Tin									
Titanium									
Vanadium	2000	2100	105.0	2000	2060	103.0	2000	2030	101.5
Zinc	2000	2030	101.5	2000	2010	100.5	2000	1980	99.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		15:03			15:55			16:49	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39500	98.8	40000	39500	98.8
Antimony	2000	1920	96.0	2000	1950	97.5	2000	1930	96.5
Arsenic	2000	1930	96.5	2000	1950	97.5	2000	1920	96.0
Barium	2000	1960	98.0	2000	1980	99.0	2000	1980	99.0
Beryllium	2000	1960	98.0	2000	1920	96.0	2000	1920	96.0
Cadmium	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Calcium	40000	39600	99.0	40000	38300	95.8	40000	38700	96.8
Chromium	2000	2030	101.5	2000	1980	99.0	2000	2000	100.0
Cobalt	2000	1950	97.5	2000	1970	98.5	2000	1960	98.0
Copper	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Iron	40000	40000	100.0	40000	39200	98.0	40000	39500	98.8
Lead	2000	1910	95.5	2000	1890	94.5	2000	1890	94.5
Magnesium	40000	39000	97.5	40000	38200	95.5	40000	38600	96.5
Manganese	2000	2070	103.5	2000	2010	100.5	2000	2020	101.0
Molybdenum									
Nickel	2000	1970	98.5	2000	1970	98.5	2000	1970	98.5
Potassium	40000	40700	101.8	40000	40400	101.0	40000	40400	101.0
Selenium	2000	1920	96.0	2000	1950	97.5	2000	1940	97.0
Silver	250	251	100.4	250	248	99.2	250	248	99.2
Sodium	40000	40500	101.3	40000	40000	100.0	40000	39800	99.5
Strontium									
Thallium	2000	1980	99.0	2000	1960	98.0	2000	1960	98.0
Tin									
Titanium									
Vanadium	2000	2030	101.5	2000	1980	99.0	2000	1980	99.0
Zinc	2000	1960	98.0	2000	1950	97.5	2000	1960	98.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		17:41			18:32			19:24	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	40200	100.5	40000	39300	98.3
Antimony	2000	1950	97.5	2000	1960	98.0	2000	1950	97.5
Arsenic	2000	1940	97.0	2000	1940	97.0	2000	1940	97.0
Barium	2000	2020	101.0	2000	2030	101.5	2000	2010	100.5
Beryllium	2000	1890	94.5	2000	1910	95.5	2000	1910	95.5
Cadmium	2000	1950	97.5	2000	1960	98.0	2000	1960	98.0
Calcium	40000	37400	93.5	40000	37800	94.5	40000	38300	95.8
Chromium	2000	1950	97.5	2000	1990	99.5	2000	1980	99.0
Cobalt	2000	1960	98.0	2000	1980	99.0	2000	1980	99.0
Copper	2000	1990	99.5	2000	2020	101.0	2000	1970	98.5
Iron	40000	38600	96.5	40000	39200	98.0	40000	38700	96.8
Lead	2000	1880	94.0	2000	1900	95.0	2000	1900	95.0
Magnesium	40000	37700	94.3	40000	38400	96.0	40000	37900	94.8
Manganese	2000	1970	98.5	2000	2010	100.5	2000	1980	99.0
Molybdenum									
Nickel	2000	1960	98.0	2000	1970	98.5	2000	1980	99.0
Potassium	40000	40700	101.8	40000	41000	102.5	40000	40800	102.0
Selenium	2000	1960	98.0	2000	1960	98.0	2000	1950	97.5
Silver	250	246	98.4	250	248	99.2	250	247	98.8
Sodium	40000	40400	101.0	40000	40900	102.3	40000	40600	101.5
Strontium									
Thallium	2000	1950	97.5	2000	1960	98.0	2000	1970	98.5
Tin									
Titanium									
Vanadium	2000	1950	97.5	2000	1970	98.5	2000	1980	99.0
Zinc	2000	1930	96.5	2000	1960	98.0	2000	1960	98.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		20:15			21:07			21:59	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39800	99.5	40000	39500	98.8	40000	39500	98.8
Antimony	2000	1950	97.5	2000	1910	95.5	2000	1940	97.0
Arsenic	2000	1930	96.5	2000	1910	95.5	2000	1920	96.0
Barium	2000	2040	102.0	2000	2030	101.5	2000	2020	101.0
Beryllium	2000	1890	94.5	2000	1880	94.0	2000	1880	94.0
Cadmium	2000	1930	96.5	2000	1910	95.5	2000	1930	96.5
Calcium	40000	37100	92.8	40000	37500	93.8	40000	37200	93.0
Chromium	2000	1920	96.0	2000	1940	97.0	2000	1930	96.5
Cobalt	2000	1960	98.0	2000	1950	97.5	2000	1960	98.0
Copper	2000	2000	100.0	2000	1970	98.5	2000	1970	98.5
Iron	40000	38300	95.8	40000	38300	95.8	40000	38100	95.3
Lead	2000	1870	93.5	2000	1860	93.0	2000	1860	93.0
Magnesium	40000	37500	93.8	40000	38000	95.0	40000	37200	93.0
Manganese	2000	1930	96.5	2000	1930	96.5	2000	1940	97.0
Molybdenum									
Nickel	2000	1950	97.5	2000	1930	96.5	2000	1950	97.5
Potassium	40000	40900	102.3	40000	40500	101.3	40000	41000	102.5
Selenium	2000	1940	97.0	2000	1930	96.5	2000	1940	97.0
Silver	250	246	98.4	250	247	98.8	250	245	98.0
Sodium	40000	41000	102.5	40000	40400	101.0	40000	40900	102.3
Strontium									
Thallium	2000	1940	97.0	2000	1920	96.0	2000	1940	97.0
Tin									
Titanium									
Vanadium	2000	1920	96.0	2000	1920	96.0	2000	1940	97.0
Zinc	2000	1920	96.0	2000	1930	96.5	2000	1910	95.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		22:51			23:41			00:33	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	39900	99.8	40000	40000	100.0
Antimony	2000	1960	98.0	2000	1940	97.0	2000	1930	96.5
Arsenic	2000	1940	97.0	2000	1930	96.5	2000	1910	95.5
Barium	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Beryllium	2000	1880	94.0	2000	1880	94.0	2000	1860	93.0
Cadmium	2000	1920	96.0	2000	1920	96.0	2000	1910	95.5
Calcium	40000	36900	92.3	40000	37000	92.5	40000	36800	92.0
Chromium	2000	1930	96.5	2000	1940	97.0	2000	1910	95.5
Cobalt	2000	1960	98.0	2000	1960	98.0	2000	1950	97.5
Copper	2000	2010	100.5	2000	2000	100.0	2000	1990	99.5
Iron	40000	38100	95.3	40000	38000	95.0	40000	37900	94.8
Lead	2000	1850	92.5	2000	1850	92.5	2000	1850	92.5
Magnesium	40000	37300	93.3	40000	37300	93.3	40000	37400	93.5
Manganese	2000	1940	97.0	2000	1940	97.0	2000	1920	96.0
Molybdenum									
Nickel	2000	1950	97.5	2000	1940	97.0	2000	1930	96.5
Potassium	40000	41500	103.8	40000	41600	104.0	40000	41500	103.8
Selenium	2000	1970	98.5	2000	1960	98.0	2000	1920	96.0
Silver	250	248	99.2	250	246	98.4	250	244	97.6
Sodium	40000	41500	103.8	40000	41600	104.0	40000	41500	103.8
Strontium									
Thallium	2000	1930	96.5	2000	1920	96.0	2000	1930	96.5
Tin									
Titanium									
Vanadium	2000	1930	96.5	2000	1930	96.5	2000	1900	95.0
Zinc	2000	1900	95.0	2000	1910	95.5	2000	1910	95.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8946 Units: ug/l

Time:		01:20	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Aluminum	40000	39600	99.0
Antimony	2000	1910	95.5
Arsenic	2000	1900	95.0
Barium	2000	2050	102.5
Beryllium	2000	1840	92.0
Cadmium	2000	1900	95.0
Calcium	40000	36400	91.0
Chromium	2000	1920	96.0
Cobalt	2000	1940	97.0
Copper	2000	1990	99.5
Iron	40000	37500	93.8
Lead	2000	1840	92.0
Magnesium	40000	37000	92.5
Manganese	2000	1930	96.5
Molybdenum			
Nickel	2000	1920	96.0
Potassium	40000	41400	103.5
Selenium	2000	1920	96.0
Silver	250	246	98.4
Sodium	40000	41400	103.5
Strontium			
Thallium	2000	1910	95.5
Tin			
Titanium			
Vanadium	2000	1910	95.5
Zinc	2000	1900	95.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA8946 Units: ug/l

Time:		05:52	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79800	99.8
Antimony	4000	3990	99.8
Arsenic	4000	3980	99.5
Barium	4000	3900	97.5
Beryllium	4000	4010	100.3
Cadmium	4000	3980	99.5
Calcium	80000	80000	100.0
Chromium	4000	4040	101.0
Cobalt	4000	3950	98.8
Copper	4000	4000	100.0
Iron	80000	79300	99.1
Lead	4000	4040	101.0
Magnesium	80000	80600	100.8
Manganese	4000	4050	101.3
Molybdenum			
Nickel	4000	3960	99.0
Potassium	80000	79600	99.5
Selenium	4000	3970	99.3
Silver	500	496	99.2
Sodium	80000	79500	99.4
Strontium			
Thallium	4000	4010	100.3
Tin			
Titanium			
Vanadium	4000	4030	100.8
Zinc	4000	3980	99.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA8946 Units: ug/l

Time:			06:07		06:12		01:07	
Sample ID:	CRI	CRIA	CRIA1		CRIA2		CRIA3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	400	200	193	96.5			195	97.5
Antimony	10	5.0			6.2	124.0	5.1	102.0
Arsenic	20	10	8.8	88.0			9.1	91.0
Barium	400	200	200	100.0			205	102.5
Beryllium	10	5.0	4.8	96.0			4.4	88.0
Cadmium	10	5.0	5.3	106.0			4.8	96.0
Calcium	2000	1000	1020	102.0			912	91.2
Chromium	20	10	10.0	100.0			9.5	95.0
Cobalt	100	50	52.8	105.6			49.9	99.8
Copper	50	25	25.4	101.6			24.5	98.0
Iron	600	300	309	103.0			314	104.7
Lead	10	5.0	5.4	108.0			5.1	102.0
Magnesium	10000	5000	4800	96.0			4440	88.8
Manganese	30	15	16.1	107.3			15.5	103.3
Molybdenum	100	50						
Nickel	80	40	42.9	107.3			39.7	99.3
Potassium	20000	10000	9950	99.5			10100	101.0
Selenium	20	10	10.2	102.0			9.4	94.0
Silver	20	10	9.1	91.0			9.0	90.0
Sodium	20000	10000	9900	99.0			10100	101.0
Strontium	20	10						
Thallium	20	10	8.3	83.0			7.7	77.0
Tin	100	50						
Titanium	20	10						
Vanadium	100	50	51.0	102.0			47.0	94.0
Zinc	40	20	21.2	106.0			19.5	97.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051311M1.ICP Date Analyzed: 05/13/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA8946 Units: ug/l

Time:			06:20		06:25		01:11		01:16	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	478000	95.6	482000	96.4	469000	93.8	472000	94.4
Antimony		1000	0.0		998	99.8	0.10		929	92.9
Arsenic		1000	-0.40		1020	102.0	1.8		940	94.0
Barium		500	0.20		496	99.2	0.20		508	101.6
Beryllium		500	-0.10		487	97.4	-0.20		436	87.2
Cadmium		1000	0.0		960	96.0	0.50		865	86.5
Calcium	500000	500000	463000	92.6	465000	93.0	407000	81.4	405000	81.0
Chromium		500	0.20		491	98.2	0.30		446	89.2
Cobalt		500	0.10		462	92.4	-0.10		429	85.8
Copper		500	-0.70		509	101.8	-1.3		492	98.4
Iron	200000	200000	180000	90.0	182000	91.0	162000	81.0	163000	81.5
Lead		1000	0.0		1010	101.0	4.2		908	90.8
Magnesium	500000	500000	492000	98.4	490000	98.0	452000	90.4	449000	89.8
Manganese		500	-0.20		508	101.6	0.0		455	91.0
Molybdenum		1000	-0.20		964	96.4	-0.70		902	90.2
Nickel		1000	0.90		945	94.5	0.70		852	85.2
Potassium			-22		-32		-44		-37	
Selenium		1000	0.0		982	98.2	-0.30		930	93.0
Silver		1000	-0.50		1130	113.0	-0.80		1060	106.0
Sodium			60.9		61.0		64.0		77.3	
Strontium		1000	0.40		0.40	0.0*	0.70		0.70	0.0*
Thallium		1000	0.0		970	97.0	5.0		889	88.9
Tin		1000	3.0		861	86.1	2.3		813	81.3
Titanium		1000	-2.6		-2.3	0.0*	-2.4		-1.9	0.0*
Vanadium		500	-0.50		503	100.6	0.50		451	90.2
Zinc		1000	0.60		895	89.5	0.40		819	81.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:53	MA8948-STD1	1		STDA
09:56	MA8948-STD2	1		STDB
10:00	MA8948-STD3	1		STDC
10:05	MA8948-HSTD1	1		
10:11	MA8948-ICV1	1		
10:19	MA8948-ICB1	1		
10:23	MA8948-ICB2	1		
10:26	MA8948-CRIA1	1		
10:32	MA8948-CRIA2	1		
10:40	MA8948-ICSA1	1		
10:47	MA8948-ICSAB1	1		
10:57	MA8948-CCV1	1		
11:03	MA8948-CCB1	1		
11:08	MA8948-CCB2	1		
11:11	MP20575-MB1	1		
11:16	MP20575-B1	1		
11:20	F82380-1	1		(sample used for QC only; not part of login F82120)
11:24	MP20575-D1	1		
11:28	MP20575-SD1	5		
11:32	MP20575-PS1	1		
11:37	MP20575-S1	1		
11:41	MP20575-S2	1		
11:45	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:53	MA8948-CCV2	1		
11:57	MA8948-CCB3	1		
12:01	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:31	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:39	MP20583-MB1	1		
12:44	MA8948-CCV3	1		
12:47	MA8948-CCB4	1		
12:52	MP20583-B1	1		
12:56	F82386-10	1		(sample used for QC only; not part of login F82120)
13:00	MP20583-D1	1		
13:04	MP20583-SD1	5		
13:09	MP20583-PS1	1		
13:13	MP20583-S1	1		
13:17	MP20583-S2	1		
13:21	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:34	MA8948-CCV4	1		
13:38	MA8948-CCB5	1		
13:42	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:04	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:25	MA8948-CCV5	1		
14:29	MA8948-CCB6	1		
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:42	ZZZZZZ	4		
14:51	ZZZZZZ	100		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:55	ZZZZZZ	40		
14:59	ZZZZZZ	5		
15:03	ZZZZZZ	20		
15:08	ZZZZZZ	1000		
15:12	ZZZZZZ	20		
15:16	MA8948-CCV6	1		
15:20	MA8948-CCB7	1		
15:53	MA8948-CCV7	1		
16:01	MA8948-CCB8	1		
16:05	F82095-5	20		(sample used for QC only; not part of login F82120)
16:10	MP20570-D1	20		
16:14	MP20570-S1	20		
16:18	MP20570-S2	20		
16:22	MP20570-PS1	20		
16:27	MP20570-SD1	100		
16:31	F82120-1	40		
16:35	F82120-1F	40		
---------->	Last reportable sample/prep for job F82120			
16:40	ZZZZZZ	10		
16:44	ZZZZZZ	10		
16:48	MA8948-CCV8	1		
16:52	MA8948-CCB9	1		
16:56	ZZZZZZ	4		
17:01	ZZZZZZ	5		
17:05	ZZZZZZ	2		
17:09	ZZZZZZ	10		
17:13	ZZZZZZ	5		
17:18	ZZZZZZ	10		
17:26	MP20580-MB1	1		
17:31	MP20580-B1	1		
17:35	F82197-2R	1		(sample used for QC only; not part of login F82120)
17:39	MA8948-CCV9	1		
17:43	MA8948-CCB10	1		
17:47	MP20580-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:51	MP20580-SD1	5		
17:56	MP20580-S1	1		
18:00	MP20580-S2	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:17	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:30	MA8948-CCV10	1		
18:34	MA8948-CCB11	1		
18:38	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:46	F82197-16R	1		(sample used for QC only; not part of login F82120)
18:51	MP20580-D2	1		
18:55	MP20580-MB2	1		
18:59	MP20580-B2	1		
19:03	MP20579-MB1	1		
19:08	MP20579-B1	1		
19:12	F82197-18R	1		(sample used for QC only; not part of login F82120)
19:16	MP20579-D1	1		
19:20	MA8948-CCV11	1		
19:24	MA8948-CCB12	1		
19:29	MP20579-SD1	5		
19:33	MP20579-S1	1		
19:37	MP20579-S2	1		
19:41	F82197-17R	1		(sample used for QC only; not part of login F82120)
19:45	ZZZZZZ	1		
19:50	ZZZZZZ	1		
19:54	ZZZZZZ	1		
19:58	ZZZZZZ	1		
20:02	ZZZZZZ	1		
20:07	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:11	MA8948-CCV12	1		
20:15	MA8948-CCB13	1		
20:19	ZZZZZZ	1		
20:23	ZZZZZZ	1		
20:28	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:53	ZZZZZZ	1		
20:57	MP20579-D2	1		
21:02	MA8948-CCV13	1		
21:06	MA8948-CCB14	1		
21:10	MP20579-MB2	1		
21:14	MP20579-B2	1		
21:18	MP20581-MB1	1		
21:23	MP20581-B1	1		
21:27	F81989-3	1		(sample used for QC only; not part of login F82120)
21:31	MP20581-D1	1		
21:36	MP20581-SD1	5		
21:40	MP20581-S1	1		
21:44	MP20581-S2	1		
21:48	ZZZZZZ	1		
21:52	MA8948-CCV14	1		
21:56	MA8948-CCB15	1		
22:01	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:09	ZZZZZZ	1		
22:14	ZZZZZZ	1		
22:18	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:31	ZZZZZZ	1		
22:36	ZZZZZZ	1		
22:40	ZZZZZZ	1		
22:45	MA8948-CCV15	1		
22:48	MA8948-CCB16	1		
22:53	ZZZZZZ	1		
22:57	ZZZZZZ	1		
23:02	F81989-15	1		(sample used for QC only; not part of login F82120)
23:06	MP20581-D2	1		
23:10	MP20581-MB2	1		
23:14	MP20581-B2	1		
23:19	MP20582-MB1	1		
23:23	MP20582-B1	1		
23:27	F81989-19	1		(sample used for QC only; not part of login F82120)
23:31	MP20582-D1	1		
23:36	MA8948-CCV16	1		
23:40	MA8948-CCB17	1		
23:44	MP20582-SD1	5		
23:48	MP20582-S1	1		
23:53	MP20582-S2	1		
23:57	ZZZZZZ	1		
00:01	ZZZZZZ	1		
00:06	ZZZZZZ	1		
00:10	ZZZZZZ	1		
00:14	ZZZZZZ	1		
00:19	F81989-22	1		(sample used for QC only; not part of login F82120)
00:23	MP20582-D2	1		
00:27	MA8948-CCV17	1		
00:31	MA8948-CCB18	1		
00:36	MP20582-MB2	1		
00:40	MP20582-B2	1		
00:44	MP20584-MB1	1		
00:49	MP20584-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:53	F82372-3	1		(sample used for QC only; not part of login F82120)
00:57	MP20584-D1	1		
01:01	MP20584-SD1	5		
01:06	MP20584-PS1	1		
01:10	MP20584-S1	1		
01:14	MP20584-S2	1		
01:18	MA8948-CCV18	1		
01:22	MA8948-CCB19	1		
01:27	ZZZZZZ	1		
01:31	ZZZZZZ	1		
01:36	ZZZZZZ	1		
01:40	ZZZZZZ	1		
01:44	ZZZZZZ	1		
01:48	ZZZZZZ	1		
01:53	ZZZZZZ	1		
01:57	ZZZZZZ	1		
02:01	ZZZZZZ	1		
02:05	ZZZZZZ	1		
02:09	MA8948-CCV19	1		
02:13	MA8948-CCB20	1		
02:18	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:26	ZZZZZZ	1		
02:31	ZZZZZZ	1		
02:35	ZZZZZZ	1		
02:39	ZZZZZZ	1		
02:43	ZZZZZZ	1		
02:47	ZZZZZZ	1		
02:52	ZZZZZZ	1		
02:56	MA8948-CRIA3	1		
03:00	MA8948-CCV20	1		
03:04	MA8948-CCB21	1		
03:09	MA8948-ICSA2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:13	MA8948-ICSAB2	1		
03:18	MA8948-CCV21	1		
03:22	MA8948-CCB22	1		

----------> Last reportable CCB for job F82120
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:53	MA8948-STD1	1207	16318	6492	629
09:56	MA8948-STD2	1146	15545	6340	526
10:00	MA8948-STD3	1105	15005	6331	483
10:05	MA8948-HSTD1	1104	14759	6486	486
10:11	MA8948-ICV1	1144	15533	6383	533
10:19	MA8948-ICB1	1199 R	16357 R	6587 R	629 R
10:23	MA8948-ICB2	1190	16147	6607	629
10:26	MA8948-CRIA1	1165	15849	6639	595
10:32	MA8948-CRIA2	1183	15934	6580	999999 !
10:40	MA8948-ICSA1	1043	14000	6316	436
10:47	MA8948-ICSAB1	1036	13848	6321	434
10:57	MA8948-CCV1	1135	15601	6475	524
11:03	MA8948-CCB1	1186	16180	6640	623
11:08	MA8948-CCB2	1192	16324	6649	637
11:11	MP20575-MB1	1199	16483	6646	646
11:16	MP20575-B1	1164	16038	6594	566
11:20	F82380-1	1149	15872	6659	578
11:24	MP20575-D1	1134	15792	6663	570
11:28	MP20575-SD1	1182	16215	6700	619
11:32	MP20575-PS1	1145	15871	6660	564
11:37	MP20575-S1	1120	15469	6703	535
11:41	MP20575-S2	1112	15389	6723	532
11:45	ZZZZZZ	1184	16383	6902	609
11:49	ZZZZZZ	1189	16636	6711	623
11:53	MA8948-CCV2	1123	15645	6567	528
11:57	MA8948-CCB3	1194	16560	6733	640
12:01	ZZZZZZ	1139	15939	6784	600
12:06	ZZZZZZ	1168	16253	6983	607
12:10	ZZZZZZ	1246	17229	7319	610
12:14	ZZZZZZ	1193	16786	6952	590
12:18	ZZZZZZ	1233	17552	6995	606
12:22	ZZZZZZ	1335	18953	7778	583
12:27	ZZZZZZ	1215	17158	6976	610

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:31	ZZZZZZ	1212	17054	6892	606
12:35	ZZZZZZ	1217	17247	6855	614
12:39	MP20583-MB1	1181	16639	6635	633
12:44	MA8948-CCV3	1121	15829	6548	522
12:47	MA8948-CCB4	1195	16847	6614	634
12:52	MP20583-B1	1199	16856	6596	632
12:56	F82386-10	1185	16682	6651	610
13:00	MP20583-D1	1178	16565	6734	608
13:04	MP20583-SD1	1193	16585	6734	631
13:09	MP20583-PS1	1186	16639	6604	590
13:13	MP20583-S1	1196	16929	6647	607
13:17	MP20583-S2	1195	16685	6681	607
13:21	ZZZZZZ	1008	14211	6376	465
13:26	ZZZZZZ	1153	16179	6845	605
13:30	ZZZZZZ	1158	16392	7016	569
13:34	MA8948-CCV4	1130	15947	6623	530
13:38	MA8948-CCB5	1196	16720	6805	639
13:42	ZZZZZZ	1300	18127	7625	598
13:47	ZZZZZZ	1247	17292	7057	625
13:51	ZZZZZZ	1175	16449	6757	615
13:55	ZZZZZZ	1169	16318	6803	610
13:59	ZZZZZZ	1127	15647	6835	561
14:04	ZZZZZZ	1158	16323	6897	617
14:08	ZZZZZZ	1179	16415	6835	619
14:12	ZZZZZZ	1159	16521	6796	608
14:17	ZZZZZZ	1184	16550	6918	627
14:21	ZZZZZZ	1192	16647	6908	628
14:25	MA8948-CCV5	1132	15998	6584	529
14:29	MA8948-CCB6	1198	16985	6780	640
14:33	ZZZZZZ	1166	16351	6790	613
14:38	ZZZZZZ	1174	16288	6925	564
14:42	ZZZZZZ	1153	16079	7033	491
14:51	ZZZZZZ	1140	16149	6821	581

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:55	ZZZZZZ	1395	19327	8266 !	575
14:59	ZZZZZZ	1347	19203	7845	616
15:03	ZZZZZZ	1095	15445	6720	523
15:08	ZZZZZZ	1174	16661	6836	633
15:12	ZZZZZZ	1111	15588	6704	530
15:16	MA8948-CCV6	1120	15947	6657	524
15:20	MA8948-CCB7	1177	16694	6807	633
15:53	MA8948-CCV7	1114	15735	6625	524
16:01	MA8948-CCB8	1177	16500	6713	631
16:05	F82095-5	1131	15996	6639	571
16:10	MP20570-D1	1115	15805	6695	563
16:14	MP20570-S1	1102	15704	6792	558
16:18	MP20570-S2	1097	15885	6823	558
16:22	MP20570-PS1	1082	15960	6894	557
16:27	MP20570-SD1	1100	16360	6992	598
16:31	F82120-1	1094	15992	7007	572
16:35	F82120-1F	1100	16307	6982	576
16:40	ZZZZZZ	1121	16538	7012	601
16:44	ZZZZZZ	1107	16265	7033	588
16:48	MA8948-CCV8	1087	15839	6886	521
16:52	MA8948-CCB9	1140	17034	6888	629
16:56	ZZZZZZ	1045	15379	6902	470
17:01	ZZZZZZ	1268	18234	7846	598
17:05	ZZZZZZ	1137	16569	7122	505
17:09	ZZZZZZ	1451	21121 !	8773 !	590
17:13	ZZZZZZ	1247	18281	7875	539
17:18	ZZZZZZ	1353	19788	8151	595
17:26	MP20580-MB1	1144	17391	6809	619
17:31	MP20580-B1	1089	16248	6775	541
17:35	F82197-2R	1151	17093	7012	601
17:39	MA8948-CCV9	1105	16302	6731	523
17:43	MA8948-CCB10	1163	17379	6866	634
17:47	MP20580-D1	1148	16949	7097	603

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:51	MP20580-SD1	1141	16832	7059	619
17:56	MP20580-S1	1120	16131	7021	545
18:00	MP20580-S2	1130	16479	6948	548
18:04	ZZZZZZ	1209	17722	7385	591
18:08	ZZZZZZ	1134	16659	7010	607
18:12	ZZZZZZ	1124	16668	7056	606
18:17	ZZZZZZ	1145	16737	7016	614
18:21	ZZZZZZ	1145	17032	6922	610
18:25	ZZZZZZ	1167	17168	7120	599
18:30	MA8948-CCV10	1093	15967	6869	523
18:34	MA8948-CCB11	1156	16907	7116	635
18:38	ZZZZZZ	1166	17034	7152	592
18:42	ZZZZZZ	1218	18044	7367	579
18:46	F82197-16R	1216	17891	7402	594
18:51	MP20580-D2	1196	17600	7416	594
18:55	MP20580-MB2	1135	16922	7029	622
18:59	MP20580-B2	1117	16222	6930	556
19:03	MP20579-MB1	1162	17372	6964	632
19:08	MP20579-B1	1098	16360	6821	545
19:12	F82197-18R	1123	16725	6934	605
19:16	MP20579-D1	1125	16714	7006	607
19:20	MA8948-CCV11	1092	15940	6853	521
19:24	MA8948-CCB12	1170	17417	6893	638
19:29	MP20579-SD1	1156	17285	6912	627
19:33	MP20579-S1	1083	16126	6850	538
19:37	MP20579-S2	1083	16072	6903	539
19:41	F82197-17R	1129	17026	7054	594
19:45	ZZZZZZ	1137	17094	7138	585
19:50	ZZZZZZ	1145	17046	6985	590
19:54	ZZZZZZ	1188	17865	7152	593
19:58	ZZZZZZ	1129	17113	6944	606
20:02	ZZZZZZ	1132	16949	6992	606
20:07	ZZZZZZ	1128	16931	7113	603

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:11	MA8948-CCV12	1065	15842	6905	518
20:15	MA8948-CCB13	1136	16946	7126	631
20:19	ZZZZZZ	1114	16791	6917	602
20:23	ZZZZZZ	1125	17057	6925	596
20:28	ZZZZZZ	1139	17171	7082	589
20:32	ZZZZZZ	1112	16910	6993	595
20:36	ZZZZZZ	1116	16773	7052	593
20:40	ZZZZZZ	1132	17031	7158	577
20:45	ZZZZZZ	1130	17124	7201	595
20:49	ZZZZZZ	1100	16755	6986	597
20:53	ZZZZZZ	1163	17506	7130	577
20:57	MP20579-D2	1149	17574	6989	604
21:02	MA8948-CCV13	1082	16158	6829	519
21:06	MA8948-CCB14	1140	17142	7054	632
21:10	MP20579-MB2	1119	17139	7003	617
21:14	MP20579-B2	1067	16109	6911	539
21:18	MP20581-MB1	1115	17028	7072	617
21:23	MP20581-B1	1069	16195	6924	541
21:27	F81989-3	1007	15256	6793	517
21:31	MP20581-D1	1010	15241	6819	519
21:36	MP20581-SD1	1114	16848	6934	593
21:40	MP20581-S1	1035	15645	6725	496
21:44	MP20581-S2	1028	15521	6778	494
21:48	ZZZZZZ	994	15099	6775	508
21:52	MA8948-CCV14	1060	15794	6984	517
21:56	MA8948-CCB15	1125	17048	7116	628
22:01	ZZZZZZ	939	14213	6631	453
22:05	ZZZZZZ	929	14957	6756	498
22:09	ZZZZZZ	958	14526	6645	473
22:14	ZZZZZZ	994	15473	6684	514
22:18	ZZZZZZ	988	15345	6691	508
22:22	ZZZZZZ	993	15041	6736	503
22:27	ZZZZZZ	998	15143	6802	509

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:31	ZZZZZZ	973	15228	6789	513
22:36	ZZZZZZ	948	14439	6592	459
22:40	ZZZZZZ	959	14441	6707	472
22:45	MA8948-CCV15	1026	15847	6978	507
22:48	MA8948-CCB16	1113	17094	7136	627
22:53	ZZZZZZ	970	15312	6643	498
22:57	ZZZZZZ	991	15567	6777	517
23:02	F81989-15	978	15470	6804	523
23:06	MP20581-D2	981	15392	6869	524
23:10	MP20581-MB2	1089	17083	7139	614
23:14	MP20581-B2	1040	16158	6983	537
23:19	MP20582-MB1	1086	17025	7076	612
23:23	MP20582-B1	1043	16126	6984	538
23:27	F81989-19	950	14732	6824	495
23:31	MP20582-D1	966	14989	6795	496
23:36	MA8948-CCV16	1048	16165	6893	512
23:40	MA8948-CCB17	1120	17283	7103	630
23:44	MP20582-SD1	1052	16208	7043	568
23:48	MP20582-S1	972	15008	6783	473
23:53	MP20582-S2	965	15025	6760	472
23:57	ZZZZZZ	948	14800	6794	485
00:01	ZZZZZZ	947	14986	6775	498
00:06	ZZZZZZ	953	14972	6830	504
00:10	ZZZZZZ	960	15147	6833	506
00:14	ZZZZZZ	991	15346	6870	522
00:19	F81989-22	972	15323	6629	495
00:23	MP20582-D2	967	15280	6667	493
00:27	MA8948-CCV17	1039	16020	6929	509
00:31	MA8948-CCB18	1100	17105	7155	622
00:36	MP20582-MB2	1072	16998	7140	608
00:40	MP20582-B2	1025	16080	6961	531
00:44	MP20584-MB1	1065	16790	6958	599
00:49	MP20584-B1	1035	16045	6889	534

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:53	F82372-3	983	15312	6903	463
00:57	MP20584-D1	1036	15938	6977	506
01:01	MP20584-SD1	1071	16745	6961	554
01:06	MP20584-PS1	1000	15553	6729	464
01:10	MP20584-S1	1049	16108	6936	489
01:14	MP20584-S2	1000	15387	6889	435
01:18	MA8948-CCV18	1044	16226	6960	511
01:22	MA8948-CCB19	1101	17270	7130	625
01:27	ZZZZZZ	978	15314	6773	478
01:31	ZZZZZZ	1003	15584	6908	484
01:36	ZZZZZZ	1147	17537	7496	531
01:40	ZZZZZZ	1148	17325	7395	535
01:44	ZZZZZZ	1129	17114	7365	517
01:48	ZZZZZZ	1086	16847	7117	546
01:53	ZZZZZZ	1112	17193	7038	569
01:57	ZZZZZZ	1111	17340	6936	571
02:01	ZZZZZZ	1105	17046	6939	573
02:05	ZZZZZZ	1109	17132	7082	568
02:09	MA8948-CCV19	1046	16257	6962	512
02:13	MA8948-CCB20	1106	17283	7154	625
02:18	ZZZZZZ	1090	16837	7076	567
02:22	ZZZZZZ	1203	18511	8043	472
02:26	ZZZZZZ	1201	18493	8047	490
02:31	ZZZZZZ	1204	18466	8005	489
02:35	ZZZZZZ	1131	17396	7547	494
02:39	ZZZZZZ	1173	17632	7651	496
02:43	ZZZZZZ	1203	18462	7673	520
02:47	ZZZZZZ	1189	18257	7565	508
02:52	ZZZZZZ	1273	19300	8130	496
02:56	MA8948-CRIA3	1113	17165	7009	595
03:00	MA8948-CCV20	1051	16127	6868	512
03:04	MA8948-CCB21	1115	17184	7069	624
03:09	MA8948-ICSA2	941	14313	6489	414

INTERNAL STANDARD SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
Analyst: RS Run ID: MA8948
Parameters: Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:13	MA8948-ICSAB2	941	14300	6490	412
03:18	MA8948-CCV21	1026	15902	6810	505
03:22	MA8948-CCB22	1098	17047	6999	618

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

7.2.1

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			10:19 ICB1		10:23 ICB2		11:03 CCB1		11:08 CCB2	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	-4.5	<10000			2.9	<10000		
Strontium	10	1								
Thallium	10	1								
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			11:57 CCB3		12:47 CCB4		13:38 CCB5		14:29 CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	11.4	<10000	0.90	<10000	4.8	<10000	-2.1	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			15:20 CCB7		16:01 CCB8		16:52 CCB9		17:43 CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	3.5	<10000	4.7	<10000	10.8	<10000	7.8	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			18:34 CCB11		19:24 CCB12		20:15 CCB13		21:06 CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	9.7	<10000	3.4	<10000	4.2	<10000	7.6	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			21:56 CCB15		22:48 CCB16		23:40 CCB17		00:31 CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	7.3	<10000	34.9	<10000	12.3	<10000	19.1	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA8948 Units: ug/l

Time: / Sample ID:			01:22 CCB19		02:13 CCB20		03:04 CCB21		03:22 CCB22	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20								
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1								
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50								
Manganese	15	1	anr							
Molybdenum	50	1								
Nickel	40	1	anr							
Potassium	10000	50								
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	12.0	<10000	6.7	<10000	4.4	<10000	5.2	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1								
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		10:11			10:57			11:53	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	39800	99.5	40000	41500	103.8	40000	41600	104.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		12:44			13:34			14:25	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	42000	105.0	40000	41700	104.3	40000	42000	105.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		15:16			15:53			16:48	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	42600	106.5	40000	41200	103.0	40000	42200	105.5
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		17:39			18:30			19:20	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	42100	105.3	40000	42100	105.3	40000	42300	105.8
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		20:11			21:02			21:52	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	42800	107.0	40000	43600	109.0	40000	43600	109.0
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		22:45			23:36			00:27	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	44500	111.3*(a	40000	44700	111.8*(a	40000	45000	112.5*(a
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		01:18			02:09			03:00	
Sample ID:	CCV	CCV18		CCV	CCV19		CCV	CCV20	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	40000	45600	114.0*(a	40000	46100	115.3*(a	40000	45500	113.8*(a
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA8948 Units: ug/l

Time:		03:18	
Sample ID:	CCV	CCV21	
Metal	True	Results	% Rec
Aluminum			
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium	40000	46000	115.0*(a
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Na reported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA8948 Units: ug/l

Time:		10:05	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum			
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium	80000	79000	98.8
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA8948 Units: ug/l

Time:			10:26		10:32		02:56	
Sample ID:	CRI	CRIA	CRIA1		CRIA2		CRIA3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	400	200						
Antimony	10	5.0						
Arsenic	20	10	anr					
Barium	400	200	anr					
Beryllium	10	5.0	anr					
Cadmium	10	5.0	anr					
Calcium	2000	1000	anr					
Chromium	20	10	anr					
Cobalt	100	50						
Copper	50	25	anr					
Iron	600	300	anr					
Lead	10	5.0	anr					
Magnesium	10000	5000						
Manganese	30	15	anr					
Molybdenum	100	50						
Nickel	80	40	anr					
Potassium	20000	10000						
Selenium	20	10	anr					
Silver	20	10	anr					
Sodium	20000	10000	9990	99.9			10900	109.0
Strontium	20	10						
Thallium	20	10	anr					
Tin	100	50						
Titanium	20	10						
Vanadium	100	50	anr					
Zinc	40	20	anr					

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA051611M1.ICP Date Analyzed: 05/16/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA8948 Units: ug/l

Time:			10:40		10:47		03:09		03:13	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	470000	94.0	469000	93.8	499000	99.8	502000	100.4
Antimony		1000	0.10		992	99.2	-5.1		1050	105.0
Arsenic		1000	0.60		1010	101.0	2.7		1040	104.0
Barium		500	0.10		494	98.8	0.20		543	108.6
Beryllium		500	0.0		478	95.6	-0.20		464	92.8
Cadmium		1000	-0.20		948	94.8	3.7		929	92.9
Calcium	500000	500000	457000	91.4	455000	91.0	420000	84.0	419000	83.8
Chromium		500	-0.60		479	95.8	0.30		437	87.4
Cobalt		500	0.30		460	92.0	-0.20		460	92.0
Copper		500	-1.3		494	98.8	-0.20		520	104.0
Iron	200000	200000	178000	89.0	177000	88.5	170000	85.0	170000	85.0
Lead		1000	0.0		991	99.1	13.9*(a)		952	95.2
Magnesium	500000	500000	482000	96.4	473000	94.6	458000	91.6	453000	90.6
Manganese		500	0.0		490	98.0	-0.10		453	90.6
Molybdenum		1000	-0.20		960	96.0	-0.20		972	97.2
Nickel		1000	0.10		942	94.2	-0.70		922	92.2
Potassium			-1.7		-18		7.9		-9.0	
Selenium		1000	0.0		977	97.7	-3.1		1030	103.0
Silver		1000	-0.20		1110	111.0	0.0		1070	107.0
Sodium			54.6		57.9		62.9		66.7	
Strontium		1000	0.40		0.50	0.0*	1.0		1.0	0.1*
Thallium		1000	0.0		950	95.0	-8.7		912	91.2
Tin		1000	2.6		859	85.9	2.9		852	85.2
Titanium		1000	-2.7		-2.2	0.0*	-2.4		-1.8	0.0*
Vanadium		500	0.10		495	99.0	0.40		460	92.0
Zinc		1000	1.0		881	88.1	-2.3		832	83.2

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
Analyst: LM Run ID: MA8955
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:49	MA8955-STD1	1		STD01REP1
10:51	MA8955-STD2	1		STD02REP1
10:54	MA8955-STD3	1		STD03REP1
10:57	MA8955-STD4	1		STD04REP1
10:59	MA8955-STD5	1		STD05REP1
11:02	MA8955-STD6	1		STD06REP1
11:04	MA8955-HSTD1	1		
11:07	MA8955-ICV1	1		
11:09	MA8955-ICB1	1		
11:11	MA8955-CRI1	1		
11:14	MA8955-CCV1	1		
11:16	MA8955-CCB1	1		
11:50	MA8955-CCV2	1		
11:53	MA8955-CCB2	1		
11:56	MP20601-MB1	1		
11:58	MP20601-B1	1		
12:00	F82291-1	1		(sample used for QC only; not part of login F82120)
12:03	MP20601-D1	1		
12:05	MP20601-SD1	5		
12:07	MP20601-S1	1		
12:09	MP20601-S2	1		
12:12	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:16	MP20604-MB1	1		
12:18	MA8955-CCV3	1		
12:21	MA8955-CCB3	1		
12:23	MP20604-B1	1		
12:26	F82099-1	1		(sample used for QC only; not part of login F82120)
12:28	MP20604-D1	1		
12:30	MP20604-SD1	5		
12:33	MP20604-S1	1		
12:35	MP20604-S2	1		
12:37	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
Analyst: LM Run ID: MA8955
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:40	ZZZZZZ	1		
12:42	ZZZZZZ	1		
12:45	ZZZZZZ	1		
12:47	MA8955-CCV4	1		
12:49	MA8955-CCB4	1		
12:52	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:06	MA8955-CCV5	1		
13:08	MA8955-CCB5	1		
13:10	MP20603-MB1	1		
13:12	MP20603-B1	1		
13:15	F82095-5	1		(sample used for QC only; not part of login F82120)
13:17	MP20603-D1	1		
13:20	MP20603-SD1	5		
13:22	MP20603-S1	1		
13:25	MP20603-S2	1		
13:27	F82097-9	1		(sample used for QC only; not part of login F82120)
13:29	MP20603-D2	1		
13:32	MP20603-SD2	5		
13:34	MA8955-CCV6	1		
13:37	MA8955-CCB6	1		
13:39	MP20603-S3	1		
13:42	MP20603-S4	1		
13:45	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:57	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
Analyst: LM Run ID: MA8955
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:59	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:05	MA8955-CCV7	1		
14:07	MA8955-CCB7	1		
14:10	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:17	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:23	F82120-1	1		
14:26	F82120-1F	1		
---------->	Last reportable sample/prep for job F82120			
14:28	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:33	MA8955-CCV8	1		
14:36	MA8955-CCB8	1		
14:40	MA8955-CCV9	1		
14:43	MA8955-CCB9	1		
15:10	MP20601-MB2	1		
15:12	MP20601-B2	1		
15:15	MA8955-CRI2	1		
15:18	MA8955-CCV10	1		
15:20	MA8955-CCB10	1		
---------->	Last reportable CCB for job F82120			

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA8955 Units: ug/l

Time: / Sample ID:			11:09 ICB1		11:16 CCB1		11:53 CCB2		12:21 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.071	-0.010	<1.0	-0.0010	<1.0	-0.0080	<1.0	-0.036	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA8955 Units: ug/l

Time:			12:49		13:08		13:37		14:07	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.071	-0.017	<1.0	-0.0090	<1.0	-0.011	<1.0	-0.018	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

7.3.1
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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA8955 Units: ug/l

Time:			14:36		14:43		15:20	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Mercury	1.0	.071	-0.0090	<1.0	-0.024	<1.0	-0.035	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8955 Units: ug/l

Time:		11:07			11:14			11:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.8	93.3	3	2.9	96.7	3	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8955 Units: ug/l

Time:		12:18			12:47			13:06	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3	2.9	96.7	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8955 Units: ug/l

Time:		13:34			14:05			14:33	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3	2.9	96.7	3	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA8955 Units: ug/l

Time:		14:40			15:18	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.9	96.7	3	2.8	93.3

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA8955 Units: ug/l

Time:		11:04	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6.0	6.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H30519W2.PRN Date Analyzed: 05/19/11 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA8955 Units: ug/l

Time:			11:11		15:15	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.17	85.0	0.17	85.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/13/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25	-3.3	<200
Antimony	6.0	1	2	-0.40	<6.0
Arsenic	10	1	2	-1.6	<10
Barium	200	1	5	-0.10	<200
Beryllium	4.0	.1	1	-0.20	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100	9.8	<1000
Chromium	10	1	1	-0.20	<10
Cobalt	50	1	1	-0.10	<50
Copper	25	1	2	0.30	<25
Iron	300	34	35	-2.7	<300
Lead	5.0	1	1	0.0	<5.0
Magnesium	5000	50	100	0.80	<5000
Manganese	15	1	1	0.50	<15
Molybdenum	50	1	2		
Nickel	40	1	2	0.0	<40
Potassium	10000	50	500	31.1	<10000
Selenium	10	2	2	0.80	<10
Silver	10	1	1	-0.60	<10
Sodium	10000	750	1900	217	<10000
Strontium	10	1	1		
Thallium	10	1	1.9	-3.0	<10
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	-0.10	<50
Zinc	20	1	5	1.1	<20

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			05/13/11					05/13/11	
Metal	F82095-5 Original	DUP	RPD	QC Limits	F82095-5 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	637	667	4.6	0-20	637	27500	27000	99.5	80-120
Antimony	0.0	2.3	200.0(a)	0-20	0.0	504	500	100.8	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2080	2000	104.0	80-120
Barium	22.8	23.7	3.9	0-20	22.8	2020	2000	99.9	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	47.5	50	95.0	80-120
Cadmium	0.10	0.0	200.0(a)	0-20	0.10	46.1	50	92.0	80-120
Calcium	285000	283000	0.7	0-20	285000	297000	25000	48.0 (b)	80-120
Chromium	3.3	3.6	8.7	0-20	3.3	194	200	95.4	80-120
Cobalt	1.0	0.0	200.0(a)	0-20	1.0	453	500	90.4	80-120
Copper	2.1	2.1	0.0	0-20	2.1	261	250	103.6	80-120
Iron	419	440	4.9	0-20	419	24300	26000	91.9	80-120
Lead	0.0	0.0	NC	0-20	0.0	468	500	93.6	80-120
Magnesium	165000	163000	1.2	0-20	165000	184000	25000	76.0 (b)	80-120
Manganese	13.9	13.6	2.2	0-20	13.9	502	500	97.6	80-120
Molybdenum									
Nickel	0.0	1.0	200.0(a)	0-20	0.0	454	500	90.8	80-120
Potassium	5520	5530	0.2	0-20	5520	31200	25000	102.7	80-120
Selenium	12.1	16.6	31.4 (a)	0-20	12.1	2150	2000	106.9	80-120
Silver	0.0	0.0	NC	0-20	0.0	54.7	50	109.4	80-120
Sodium	1200000	1260000	4.9	0-20	1200000	1270000	25000	280.0(b)	80-120
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1750	2000	87.5	80-120
Tin									
Titanium									
Vanadium	23.3	23.5	0.9	0-20	23.3	507	500	96.7	80-120
Zinc	184	181	1.6	0-20	184	631	500	89.4	80-120

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/13/11

Metal	F82095-5 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	637	27600	27000	99.9	0.4	20
Antimony	0.0	505	500	101.0	0.2	20
Arsenic	0.0	2080	2000	104.0	0.0	20
Barium	22.8	2030	2000	100.4	0.5	20
Beryllium	0.0	48.0	50	96.0	1.0	20
Cadmium	0.10	46.1	50	92.0	0.0	20
Calcium	285000	302000	25000	68.0 (a)	1.7	20
Chromium	3.3	194	200	95.4	0.0	20
Cobalt	1.0	455	500	90.8	0.4	20
Copper	2.1	262	250	104.0	0.4	20
Iron	419	24400	26000	92.2	0.4	20
Lead	0.0	471	500	94.2	0.6	20
Magnesium	165000	185000	25000	80.0	0.5	20
Manganese	13.9	505	500	98.2	0.6	20
Molybdenum						
Nickel	0.0	452	500	90.4	0.4	20
Potassium	5520	31400	25000	103.5	0.6	20
Selenium	12.1	2140	2000	106.4	0.5	20
Silver	0.0	55.6	50	111.2	1.6	20
Sodium	1200000	1260000	25000	240.0(a)	0.8	20
Strontium						
Thallium	0.0	1760	2000	88.0	0.6	20
Tin						
Titanium						
Vanadium	23.3	513	500	97.9	1.2	20
Zinc	184	629	500	89.0	0.3	20

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/13/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	25700	27000	95.2	80-120
Antimony	476	500	95.2	80-120
Arsenic	1880	2000	94.0	80-120
Barium	1990	2000	99.5	80-120
Beryllium	48.8	50	97.6	80-120
Cadmium	49.1	50	98.2	80-120
Calcium	23700	25000	94.8	80-120
Chromium	201	200	100.5	80-120
Cobalt	493	500	98.6	80-120
Copper	250	250	100.0	80-120
Iron	24800	26000	95.4	80-120
Lead	465	500	93.0	80-120
Magnesium	23000	25000	92.0	80-120
Manganese	516	500	103.2	80-120
Molybdenum				
Nickel	501	500	100.2	80-120
Potassium	24400	25000	97.6	80-120
Selenium	1880	2000	94.0	80-120
Silver	48.1	50	96.2	80-120
Sodium	24700	25000	98.8	80-120
Strontium				
Thallium	1940	2000	97.0	80-120
Tin				
Titanium				
Vanadium	500	500	100.0	80-120
Zinc	477	500	95.4	80-120

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/13/11

Metal	F82095-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	637	638	0.1	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	22.8	25.6	12.3 (a)	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.100	0.900	800.0(a)	0-10
Calcium	285000	298000	4.6	0-10
Chromium	3.30	0.00	100.0(a)	0-10
Cobalt	1.00	0.00	100.0(a)	0-10
Copper	2.10	5.80	176.2(a)	0-10
Iron	419	413	1.3	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	165000	159000	3.3	0-10
Manganese	13.9	14.3	2.9	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	5520	5220	5.5	0-10
Selenium	12.1	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1200000	1300000	7.6	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	23.3	24.8	6.4	0-10
Zinc	184	209	13.8*(b)	0-10

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20570
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/13/11

Metal	Sample ml	Final ml	F82095-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	637.1	624.358	3236	0.2	125	2500	104.5	80-120
Antimony	9.8	10	0	0	105.6	0.2	5	100	105.6	80-120
Arsenic	9.8	10	0	0	110.2	0.2	5	100	110.2	80-120
Barium	9.8	10	22.8	22.344	277.2	0.2	12.5	250	101.9	80-120
Beryllium	9.8	10	0	0	48.1	0.2	2.5	50	96.2	80-120
Cadmium	9.8	10	0.1	0.098	49.4	0.2	2.5	50	98.6	80-120
Calcium	9.8	10	285100	279398	280900	0.2	250	5000	30.0*(a)	80-120
Chromium	9.8	10	3.3	3.234	53.1	0.2	2.5	50	99.7	80-120
Cobalt	9.8	10	1	0.98	47.4	0.2	2.5	50	92.8	80-120
Copper	9.8	10	2.1	2.058	110.7	0.2	5	100	108.6	80-120
Iron	9.8	10	418.8	410.424	3404	0.2	150	3000	99.8	80-120
Lead	9.8	10	0	0	47.2	0.2	2.5	50	94.4	80-120
Magnesium	9.8	10	164700	161406	165000	0.2	250	5000	71.9*(a)	80-120
Manganese	9.8	10	13.9	13.622	64.6	0.2	2.5	50	102.0	80-120
Molybdenum										
Nickel	9.8	10	0	0	95.6	0.2	5	100	95.6	80-120
Potassium	9.8	10	5521	5410.58	16130	0.2	500	10000	107.2	80-120
Selenium	9.8	10	12.1	11.858	127.4	0.2	5	100	115.5	80-120
Silver	9.8	10	0	0	58.4	0.2	2.5	50	116.8	80-120
Sodium	9.8	10	1204000	1179920	1278000	0.2	500	10000	980.8*(a	80-120
Strontium										
Thallium	9.8	10	0	0	87.9	0.2	5	100	87.9	80-120
Tin										
Titanium										
Vanadium	9.8	10	23.3	22.834	73.3	0.2	2.5	50	100.9	80-120
Zinc	9.8	10	183.6	179.928	414.7	0.2	12.5	250	93.9	80-120

Associated samples MP20570: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20603 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/19/11

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.071	.05	0.0030	<1.0

Associated samples MP20603: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20603
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:			05/19/11					05/19/11	
Metal	F82095-5 Original	DUP	RPD	QC Limits	F82095-5 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	3.1	3	103.3	80-120

Associated samples MP20603: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20603 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/19/11

Metal	F82095-5 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.1	3	103.3	0.0	20

Associated samples MP20603: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20603
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/19/11

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.8	3	93.3	80-120

Associated samples MP20603: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP20603 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/19/11 05/19/11

Metal	F82095-5 Original	SDL 1:5	%DIF	QC Limits	F82097-9 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10

Associated samples MP20603: F82120-1, F82120-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44543	5.0	0.0	mg/l	250	258	103.0	90-113%
Chloride	GP16948/GN44436	2.0	0.0	mg/l	50	50.7	101.4	90-110%
Chromium, Hexavalent	GN44401	0.010	0.0	mg/l	.100	0.093	92.8	78-120%
Cyanide, Total	GP16970/GN44471	0.010	0.0	mg/l	0.1	0.105	105.0	90-110%
Nitrogen, Nitrate	GP16948/GN44436	0.10	0.0	mg/l	2.5	2.38	95.2	90-110%
Nitrogen, Nitrite	GP16948/GN44436	0.10	0.0	mg/l	2.5	2.58	103.2	90-110%
Solids, Total Dissolved	GN44442	100	0.0	mg/l				
Sulfate	GP16948/GN44436	2.0	0.0	mg/l	50	52.0	104.0	90-110%

Associated Samples:
Batch GN44401: F82120-1
Batch GN44442: F82120-1
Batch GN44543: F82120-1
Batch GP16948: F82120-1
Batch GP16970: F82120-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44543	F82161-1	mg/l	76.6	75.9	0.9	0-20%
Chloride	GP16948/GN44436	F82106-1	mg/l	89.1	89.3	0.2	0-20%
Chromium, Hexavalent	GN44401	F82120-1	mg/l	0.0	0.0	0.0	0-34%
Cyanide, Total	GP16970/GN44471	F82120-1	mg/l	0.0056	0.0070	22.2(a)	0-20%
Nitrogen, Nitrate	GP16948/GN44436	F82106-1	mg/l	0.52	0.48	8.0	0-20%
Nitrogen, Nitrite	GP16948/GN44436	F82106-1	mg/l	0.050 U	0.0	0.0	0-20%
Solids, Total Dissolved	GN44442	F82134-2	mg/l	1510	1300	14.4*(b)	0-5%
Sulfate	GP16948/GN44436	F82106-1	mg/l	48.5	48.8	0.6	0-20%

Associated Samples:
Batch GN44401: F82120-1
Batch GN44442: F82120-1
Batch GN44543: F82120-1
Batch GP16948: F82120-1
Batch GP16970: F82120-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) High RPD due to possible sample nonhomogeneity.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44543	F82161-1	mg/l	76.6	250	341	106.0	90-113%
Chloride	GP16948/GN44436	F82106-1	mg/l	89.1	50	129	79.8N	90-110%
Chromium, Hexavalent	GN44401	F82120-1	mg/l	0.0	.100	0.086	85.7	78-120%
Cyanide, Total	GP16970/GN44471	F82120-1	mg/l	0.0056	0.1	0.11	104.4	90-110%
Nitrogen, Nitrate	GP16948/GN44436	F82106-1	mg/l	0.52	2.5	2.5	79.2N	90-110%
Nitrogen, Nitrite	GP16948/GN44436	F82106-1	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Sulfate	GP16948/GN44436	F82106-1	mg/l	48.5	50	91.8	86.6N	90-110%

Associated Samples:
Batch GN44401: F82120-1
Batch GN44543: F82120-1
Batch GP16948: F82120-1
Batch GP16970: F82120-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311050601.TXT Date Analyzed: 05/06/11 Methods: EPA 300/SW846 9056A
Analyst: LT Run ID: GN44436
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:55	GN44436-CCV1	1		
09:11	GN44436-CCB1	1		
09:28	GP16948-MB1	1		
09:45	GP16948-B1	1		
10:19	F82106-1	1		(sample used for QC only; not part of login F82120)
10:36	ZZZZZZ	25		
10:53	ZZZZZZ	10		
11:09	ZZZZZZ	5		
11:26	ZZZZZZ	1		
11:43	ZZZZZZ	5		
12:00	ZZZZZZ	100		
12:17	GN44436-CCV2	1		
12:34	GN44436-CCB2	1		
12:51	ZZZZZZ	50		
13:08	F82120-1	50		
13:25	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:58	F82115-4	1		(sample used for QC only; not part of login F82120)
14:15	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:49	GP16948-D1	1		
15:06	GP16948-S1	1		
15:23	GN44436-CCV3	1		
15:39	GN44436-CCB3	1		
15:56	GP16948-D2	1		
16:13	GP16948-S2	1		
16:30	GN44436-CCV4	1		
16:47	GN44436-CCB4	1		
17:04	GP16949-MB1	1		
17:21	GP16949-B1	1		
17:38	F82110-1	1		(sample used for QC only; not part of login F82120)
17:55	GP16949-D1	1		
18:12	GP16949-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311050601.TXT Date Analyzed: 05/06/11 Methods: EPA 300/SW846 9056A
Analyst: LT Run ID: GN44436
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:29	ZZZZZZ	1		
18:46	ZZZZZZ	1		
19:02	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:53	GN44436-CCV5	1		
20:10	GN44436-CCB5	1		
20:27	ZZZZZZ	1		
20:44	F82110-9	1		(sample used for QC only; not part of login F82120)
21:01	GP16949-D2	1		
21:18	GP16949-S2	1		
21:35	ZZZZZZ	1		
21:52	ZZZZZZ	1		
22:08	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:42	ZZZZZZ	1		
22:59	ZZZZZZ	1		
23:16	GN44436-CCV6	1		
23:33	GN44436-CCB6	1		
23:50	ZZZZZZ	50		
00:07	GN44436-CCV7	1		
00:24	GN44436-CCB7	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311050601.TXT Date Analyzed: 05/06/11 Methods: EPA 300/SW846 9056A
Run ID: GN44436 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44436-CCV1	Chloride	50.5	2.0	1.0	50	101.0	90-110
GN44436-CCV1	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44436-CCV1	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44436-CCV1	Sulfate	51.5	2.0	1.0	50	103.0	90-110
GN44436-CCB1	Chloride	1.0 U	2.0	1.0			
GN44436-CCB1	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB1	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV2	Chloride	50.7	2.0	1.0	50	101.4	90-110
GN44436-CCV2	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44436-CCV2	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44436-CCV2	Sulfate	50.0	2.0	1.0	50	100.0	90-110
GN44436-CCB2	Chloride	1.0 U	2.0	1.0			
GN44436-CCB2	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB2	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV3	Chloride	50.8	2.0	1.0	50	101.6	90-110
GN44436-CCV3	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44436-CCV3	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN44436-CCV3	Sulfate	50.0	2.0	1.0	50	100.0	90-110
GN44436-CCB3	Chloride	1.0 U	2.0	1.0			
GN44436-CCB3	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB3	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV4	Chloride	50.7	2.0	1.0	50	101.4	90-110
GN44436-CCV4	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44436-CCV4	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44436-CCV4	Sulfate	51.7	2.0	1.0	50	103.4	90-110
GN44436-CCB4	Chloride	1.0 U	2.0	1.0			
GN44436-CCB4	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB4	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV5	Chloride	50.6	2.0	1.0	50	101.2	90-110
GN44436-CCV5	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN44436-CCV5	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44436-CCV5	Sulfate	50.9	2.0	1.0	50	101.8	90-110
GN44436-CCB5	Chloride	1.0 U	2.0	1.0			
GN44436-CCB5	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB5	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV6	Chloride	50.8	2.0	1.0	50	101.6	90-110
GN44436-CCV6	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44436-CCV6	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44436-CCV6	Sulfate	50.9	2.0	1.0	50	101.8	90-110
GN44436-CCB6	Chloride	1.0 U	2.0	1.0			
GN44436-CCB6	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB6	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN44436-CCB6	Sulfate	1.0 U	2.0	1.0			
GN44436-CCV7	Chloride	50.8	2.0	1.0	50	101.6	90-110
GN44436-CCV7	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN44436-CCV7	Nitrogen, Nitrate	2.3	0.10	0.050	2.5	92.0	90-110
GN44436-CCV7	Sulfate	50.3	2.0	1.0	50	100.6	90-110
GN44436-CCB7	Chloride	1.0 U	2.0	1.0			
GN44436-CCB7	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN44436-CCB7	Nitrogen, Nitrate	0.050 U	0.10	0.050			

Instrument QC Summary
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311050601.TXT Date Analyzed: 05/06/11 Methods: EPA 300/SW846 9056A
Run ID: GN44436 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44436-CCB7	Sulfate	1.0 U	2.0	1.0			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A051111CN1.CSV Date Analyzed: 05/11/11 Methods: EPA 335.4/SW 9012B
Analyst: TC Run ID: GN44471
Parameters: Cyanide, Total

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:27	GN44471-ICV1	1		
14:28	GN44471-ICB1	1		
14:28	GN44471-CCV1	1		
14:29	GN44471-CCB1	1		
14:34	GP16970-D1	1		
14:34	GP16970-S1	1		
14:35	F82120-1	1		
14:36	ZZZZZZ	1		
14:37	GP16970-MB1	1		
14:38	GP16970-B1	1		
14:39	GN44471-CCV2	1		
14:39	GN44471-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F82120
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A051111CN1.CSV Date Analyzed: 05/11/11 Methods: EPA 335.4/SW 9012B
Run ID: GN44471 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN44471-ICV1	Cyanide, Total	0.27	0.010	0.0050	.25	108.0	90-110
GN44471-ICB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44471-CCV1	Cyanide, Total	0.26	0.010	0.0050	.25	104.0	90-110
GN44471-CCB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN44471-CCV2	Cyanide, Total	0.27	0.010	0.0050	.25	108.0	90-110
GN44471-CCB2	Cyanide, Total	0.0050 U	0.010	0.0050			

(!) Outside of QC limits

ANALYTICAL REPORT

Report Date: May 19, 2011

Sue Bell
Accutest Laboratories
4405 Vineland Road
C15
Orlando, FL 32811

Phone: (813) 741-3338
Fax: (813) 741-9137
E-mail: sueb@accutest.com

Workorder: **34-1113713**
Project ID: F82120X
Purchase Order: NA

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
MAO2MW001D	1113713001	05/05/11	05/17/11	

Case Narrative

Method: 6850
Analysis: Perchlorate
Analysis SOP: LC-MS-CLO4
ALS WO ID(s): 1113713

Client: Accutest Laboratories
Matrix: Water
ELMS Batch (HBN) #: 1182 (66508)

General Set Information: There were two field samples in these Work Orders. The samples were analyzed for perchlorate.

Method Summary: Each sample was prepared as noted below and analyzed using an Agilent 1100 LC/MSD system in select ion monitoring (SIM) mode at m/z 83 and 85, which corresponds to the loss of one oxygen atom from the perchlorate molecule. ChemStation software was used for instrument control and data analysis. The ion ratio of m/z 83 to 85 was used to positively identify the response peak as perchlorate. Quantitation was performed using the m/z 83 peak area. An internal standard of ^{18}O labeled perchlorate was added to each sample to establish the perchlorate peak retention time and used in quantitation.

Sample Preparation: A 9.95mL aliquot of each sample, including standards, was transferred into a 15-mL centrifuge tube. 50µL of an ^{18}O labeled perchlorate solution was added to each sample as an internal standard. The samples were then capped, vortexed, and filtered into autosampler vial using Pall 0.45µm Ion Chromatography Acrodiscs.

Holding Times: Holding times were met for all analyses.

Dilutions: No dilutions were necessary for high levels of perchlorate in any of the samples. The internal standard recoveries were low for samples 1113618001 and the 001 matrix spike. The sample and the MS/MSD were reanalyzed at 1 in 5 dilutions.

Method QC data: The method blank (LMB 219407) was less than 1/2 the CRDL. The recovery for LCS 219408 was within acceptable parameters.

MS/MSD Analysis: The matrix spike and matrix spike duplicate were performed on sample 1113618001 (Client ID: MWQ-22). The percent recoveries and the relative percent differences were within the performance limits.

Instrument QC: Instrument initial and continuing calibrations were performed in accordance with published procedures.

NC/CAR(s): None were required for this set.

Sample Calculation: Samples were reported in µg/L. Results were calculated in µg/L by the equation (A)x(B),

where: A = Analyte concentration from the standard curve (µg/L)
B = Dilution performed at time of analysis

Miscellaneous Comments: These samples were analyzed in accordance with the requirements found in the DOD QSM Version 4.2, Table F-12. The ion ratio of m/z 83 to 85 often fails at levels near or below the Limit of Detection.

Thomas Bosch — May 19, 2011
Thomas Bosch — Date

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Analytical Results

Sample ID: **MAO2MW001D**	Sampling Site: NA	Collected: 05/05/2011
Lab ID: 1113713001	Media: 125 mL Plastic Wide Mouth	Received: 05/17/2011
Matrix: Water	Sampling Parameter: NA	

Analysis Method - EPA 6850

Preparation: Not Applicable	**Analysis:** EPA 6850, Water	**Instrument ID:** LCMS02
	Batch: ELMS/1182 (HBN: 66508)	**Percent Solid:** NA
	Analyzed: 05/18/2011 18:51	**Report Basis:** Wet

Analyte	ug/L	MDL	RL	Dilution	Qual.
Perchlorate	**20**	0.20	2.0	**1**	

Report Authorization

Analysis Method - EPA 6850

Thomas Bosch	Thomas T. McKay
Analyst	**Peer Review**

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.datachem.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

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ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

ANALYTICAL REPORT

Workorder: 34-1113713
Client: Accutest Laboratories
Project Manager: Kevin W. Griffiths

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Blank

LMB: 219407
Analyzed: 05/18/2011 17:07
Units: ug/L

Analyte	Result	MDL	RL
Perchlorate	ND	0.2	2

Laboratory Control Sample

LCS: 219408
Analyzed: 05/18/2011 17:28
Units: ug/L

Analyte	Result	Target	% Recovery	QC Limits	
Perchlorate	4.51	5	90.2	80	120

Matrix Spike - Matrix Spike Duplicate

Sample: 1113618001
Analyzed: 05/19/2011 10:48
Units: ug/L

MS: 219409
Analyzed: 05/19/2011 11:09

MSD: 219410
Analyzed: 05/19/2011 11:30

Analyte	Result	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Perchlorate	1.4	21.1	25	84.3	80	120	20.8	83.4	1.11	0	20

Symbols and Definitions

* - See Comments section for more information

▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)

ND - Not Detected

QC results are not adjusted for moisture correction, where applicable.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1113713

Limits: Client SOW/Contract Specified	**Preparation:** NA	**Analysis:** EPA 6850
Basis: DoD QSM V.4.1	**Batch:** NA	**Batch:** ELMS/1182 (HBN: 66508)
	Prepared By: NA	**Analyzed By:** Thomas Bosch

Continuing Calibration Verification

CCV: 219404 **Analyzed:** 05/18/2011 16:04 **Units:** ug/L **Criteria:** ± 15%				**CCV:** 219411 **Analyzed:** 05/18/2011 19:12 **Units:** ug/L **Criteria:** ± 15%			**CCV:** 219544 **Analyzed:** 05/19/2011 10:27 **Units:** ug/L **Criteria:** ± 15%		
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**
Perchlorate	24.5	25	98	25.2	25	101	24.8	25	99.2

CCV: 219545 **Analyzed:** 05/19/2011 11:51 **Units:** ug/L **Criteria:** ± 15%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	25.5	25	102

Interference Check Sample

ICS: 219406 **Analyzed:** 05/18/2011 16:46 **Units:** ug/L **Criteria:** ± 30%			
Analyte	**Result**	**Target**	**% Rec.**
Perchlorate	0.847	1	84.7

Limit of Detection Verification

LODV: 219405 **Analyzed:** 05/18/2011 16:25 **Units:** ug/L **Criteria:** ± 30%				**LODV:** 219412 **Analyzed:** 05/18/2011 19:33 **Units:** ug/L **Criteria:** ± 30%			
Analyte	**Result**	**Target**	**% Rec.**	**Result**	**Target**	**% Rec.**	
Perchlorate	0.159	0.1	*159	0.237	0.1	*237	

Comments

None

QC Data Approved and Reviewed by

Thomas Bosch	Thomas T. McKay	5/19/2011
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - See Comments section for more information
▲ - Sample result is greater than 4 times the spike added.

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable.

1113713

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

4810/#14 1113713

PAGE 1 OF 1

Client / Reporting Information	Project Information	Analytical Information	Matrix Codes
Company Name: Accutest Laboratories	Project Name: F82120X	PERCHLORATE 6850	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe
Address: 4405 Vineland Rd.	Please send report to dawnd@accutest.com		
City: Orlando State: FL Zip: 32811	For any other issues contact munam@accutest.com		
Phone #: (407) 425-6700 Fax#: (407) 425-0707			

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	CONTAINER INFORMATION MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	PERCHLORATE 6850	LAB USE ONLY
1	MAO2MW001D	05/05/11	12:23		GW	1		X								X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:

DUE: 5/20/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [X] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

X FULL EXPANDED DATA PACKAGE AND RAW DATA

Comments / Remarks

Ship to Laboratory - ALS

Approved by -

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 ALSE	5/16/11 1700	2 FED EX	3 FED EX		4 ALS 5-17-11 1011
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: ____

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task:	Split:	Workorder ID: 1113713	Requested Analysis
Client: Accutest Laboratories		Account: 8001	Type: 125PWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	EPA 8650
1	05/05/2011 12:23	MAO2MW001D	1113713001		Water	A	1	A
2								
3								
4								
5								
6								
7								
8								
9								
10								

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Moon, Boone C.	05/17/2011 10:10	ALS Sample Receiving	Sample Login
R Moon	5-17-11 1121	R-33-1 3B	Storage
R-33-1	5-18-4/1300	Tom Bush	CLO4 analysis

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

2011-05-20--03

2011-05-17--02

ALS LABORATORY GROUP SALT LAKE CITY CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: Accutest — Project/Task/Site: 1113713

Date/Time of Receipt: 05.17.11 1010 — Number of Coolers Received: 1

Condition of Coolers:	Acceptable/Unacceptable	Temperature Control:	Present/Not Included
Custody Seals:	Present/Absent/NA	Location Temp Taken:	Control/Between Samples
	Intact/Broken/NA	Are all temperatures within	
Tamper Evident:	Yes/No/NA	project specific guidelines?	Yes/No/NA
Ice Present:	Yes/No/NA	Are all applicable pHs within	
	Frozen/Melted/NA	specific guidelines?	Yes/No/NA

PH Check:							
	Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
	Cyanide	Yes/No/NA	TPH – 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
	Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
	Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A,B, Gamma Spec	Yes/No/NA

Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Cooler No.	Temp.
1	C11-7771	3 °C	4	C11-	°C	7	C11-	°C
2	C11-	°C	5	C11-	°C	8	C11-	°C
3	C11-	°C	6	C11-	°C	9	C11-	°C

Taken By: [signature] (Signature) Boone Mixon (Printed Name) 5.17.11 (Date)

CLIENT-RELATED INFORMATION

☐ Missing Cooler	☐ Missing Samples/Bottles	☐ Incorrect Preservation	☐ Chain of Custody Problems
☐ Cooler Conditions	☐ Broken/Leaking Samples	☐ pH Criteria Not Met	☐ Other:
☐ Missing Paperwork	☐ Incorrect Bottle Type	☐ Head Space in Bottles	EPA Custody Seal:
☐ Missing/Incorrect Bottle labels	☐ Cooler Temperatures Out of range	☐ Insufficient Sample Volume	

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Faxed to Client? YES ☐ NO ☐ (if yes, attach Fax Cover Sheet)

Response Required Within 24 Hours

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

ALS Project Manager: _____ (Printed Name) Returned to Sample Receipt by: _____ (Signature) Date: _____

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Analytical Documentation

Batch Worklist

Batch: ELMS/ 1182
Rule: EPA 6850, Water

Created: 5/18/2011 13:39
Analyst: T. Bosch

Instrument: LCMS02
Status: WP

HBN: 66508

Workorder: 1113618
Workorder: 1113713

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	219404	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
2	219405	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
3	219406	ICS for HBN 66508 [ELMS/1182]			3	ICS		E6850..C3Q	5311		5/20/2011	5/18/2011
4	219407	LMB for HBN 66508 [ELMS/1182]			3	LMB		E6850..3Q	5311		5/20/2011	5/18/2011
5	219408	LCS for HBN 66508 [ELMS/1182]			3	LCS		E6850...3Q	5311		5/20/2011	5/18/2011
6	1113618001	MWQ 22			3	SAMPLE	1113618001-A	E6850...3	5480	6/8/2011	5/24/2011	5/19/2011
7	219409	MWQ 22(1113618001MS)			3	MS		E6850...3Q	5311		5/20/2011	5/19/2011
8	219410	MWQ 22(1113618001MSD)			3	MSD		E6850...3Q	5311		5/20/2011	5/19/2011
9	1113713001	MAO2MW001D			3	SAMPLE	1113713001-A	E6850....3	5480	6/2/2011	5/20/2011	5/18/2011
10	219411	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/18/2011
11	219412	LODV for HBN 66508 [ELMS/1182]			3	LODV		E6850..C3Q	5311		5/20/2011	5/18/2011
12	219544	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011
13	219545	CCV for HBN 66508 [ELMS/1182]			3	CCV		E6850..C3Q	5311		5/20/2011	5/19/2011

ALS Work Order #'s & Sample #( )'s: 1113618 (001); 1113713 (001)
ELMS Batch/HBN ID: 1182 (66508)
Prep Date: 5/18/2011 Analysis Date: 5/18,19/2011 Analyst: T. Bosch
Analyte: **Perchlorate** Matrix: **Water** Method: **6850**
Sequence:\\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.s & 19MAY11P.s
Instrument MDL: **0.200µg/L** Reported PQL: **2.0µg/L**

SAMPLE PREPARATION/ANALYSIS:

Water: All DCL sample #'s agreed with field ID #'s. Samples were prepared by TNB. 9.95mL of each sample was pipetted into a 15-mL centrifuge tube, and 50µL of an oxygen-18 labeled perchlorate solution was added as an internal standard. The samples were capped, vortexed, and filtered with Phenex PES membrane 0.45µm Syringe filters prior to analysis.

REAGENTS: Eluent D: 95% ASTM Type II water(ALS)/ 5% ACN (BDH Lot 904304)/0.1% glacial acetic acid (JT-Baker Lot 04802).
Eluent C: 95% ACN (BDH Lot 904304)/ 5% ASTM Type II water(ALS)/0.1% glacial acetic acid (JT-Baker Lot 04802).

STANDARDS: Internal Standard Spiking Solution Horizon# 10682. Dilutions of Working Standard Solution ID 10684 used for CCV's, LODV's, RLVS and IPC.

CALIBRATION CURVE: Used curve from 2/28/2011, sequence 28FEB11I.s
Offline Quantitation Method: CLO4OFF1.M

INSTRUMENT CONDITIONS: Samples were analyzed with an Agilent 1100 LC/MSD system, in negative SIM mode, monitoring m/z 83, 85, and 89. Tuned: 1/6/2010 Tune Checked: 2/28/2011
Instrument ID: LCMS02 Online Acquisition Method: CLO4-ON.M
Fragmentor: 210 Output Gain: 55 Injection Volume: 20µL
Column: KP-RPPX C8 separator, 250mm Mobile Phase: 10% Eluent C; 90% Eluent D
Flow Gradient: 0.65mL/min to 5min., to 0.3ml/min at 6min., hold to 16min., to 0.65ml/min at 17min. Run Time: 19.00 min.

QC DATA: A 2,000X dilution of QC Solution ID 10686 was used for LCS 219408; Target = 5.0µg/L. ASTM type II water was used for LMB 219407.

MS/MSD: MS/MSD was performed on sample 1113618001 (Client ID: MWQ-22). 5.0µl of Working Standard Solution Horizon ID 10683 was added to 10.0mL of sample preparation.
Spike target = 5.0µg/L.

COMMENTS: 1) Results reported in µg/L. 2) All QC, Blank, CCV, and MS/MSD results were within method parameters. 3) Sample data can be viewed at two directories within the ALS system:\ALSLTWS013\DataReview\HBN# or throughNuGenesis\Tree\PrintData\LCMS\DefaultView. 4) The ISTD recovery and the 83:85 ion ratio failed for samples 1113618001 and 001MS. These samples (+ the MSD) were reanalyzed at 1 in 5 dilutions and reported.

STANDARD REPORT

Working Standard - CLO4 WRK

CLO4 WRK — Description: 6850 Working Standard

Standard:	10684	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 WRK 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	0.1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10683	CLO4 INT	6850 Intermediate Stock	CLO4 INT 02/05/09	1 mL	11/30/2011

STANDARD REPORT

Constituent

Working Standard - CLO4 INT

CLO4 INT				Description - 6850 Intermediate Stock	
Standard:	10683	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 INT 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
7186	CLO4	6850 Stock Standard	CLO4 STOCK	1 mL	11/30/2011

STANDARD REPORT

Constituent

Solvent Standard - ASTM H2O

ASTM H2O	Description: ASTM Type II Water				
Standard:	109	**Expires:**	11/7/2015	**Usable:**	Yes
Lab Lot:	LAB 109	**Created By:**	ALS Support (Lims)	**Amount:**	100 L
Part ID:		**Create Date:**	10/6/2005	**Validated By:**	
MFG:	DCL In House	**MFG Lot:**		**Validated Date:**	

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLO4 STOCK

CLO4 STOCK	Description - 6850 Stock Standard

Standard:	7186	**Expires:**	11/30/2011	**Usable:**	Yes
Lab Lot:	CLO4 STOCK	**Created By:**	T. Bosch	**Amount:**	250 mL
Part ID:	IC-PER-10X-1	**Create Date:**	2/8/2010	**Validated By:**	
MFG:	AccuStandard	**MFG Lot:**	209115027	**Validated Date:**	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

125 Market Street
New Haven, CT 06513
USA

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

AccuIon™ Reference Standard

Item Number: IC-PER-10X-1

Element: Perchlorate

Matrix: Water

Lot Number: 209115027

Expiration Date: Nov / 2011

S 7186

Actual Lot Analysis

Perchlorate 1000 µg/mL

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.

In order to verify the concentrations, the final solution was checked against material traceable to the following NIST SRMs: Ind. Std.

RESULTS: This solution standard was certified for accuracy of the listed components via methodology traceable to primary or well characterized secondary standards.

This standard was prepared gravimetrically to contain the concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, ASTM type I 18 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All solutions are filtered through a 0.2 µm filter prior to being bottled. All bottles are triple rinsed with deionized water prior to use.

Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

L. Snyder

Lydia Snyder
Inorganic QC Supervisor

STANDARD REPORT

Working Standard - CLO4 QC WRK

CLO4 QC WRK				Description: 6850 QC Working Standard	
Standard:	10687	**Expires:**	02/10/2012	**Usable:**	Yes
Lab Lot:	CLO4 QC WRK 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10686	CLO4 QC INT	6850 QC Intermediate Standard	CLO4 QC INT 02/05/09	1 mL	5/31/2014

STANDARD REPORT

Constituent

Stock Standard - CLO4 QCSTOCK

CLO4 QCSTOCK				Description	6850 QC Stock Standard
Standard:	10685	**Expires:**	5/31/2014	**Usable:**	Yes
Lab Lot:	CLO4 QC STOCK	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:	ICC-013	**Create Date:**	2/10/2011	**Validated By:**	
MFG:	Ultra Scientific	**MFG Lot:**	L00429	**Validated Date:**	

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/mL

STANDARD REPORT

Constituent

Working Standard - CLO4 QC INT

CLO4 QC INT				Description: 6850 QC Intermediate Standard	
Standard:	10686	**Expires:**	05/31/2014	**Usable:**	Yes
Lab Lot:	CLO4 QC INT 02/05/09	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	10 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
109	ASTM H2O	ASTM Type II Water	LAB 109	99 mL	11/7/2015
10685	CLO4	6850 QC Stock Standard	CLO4 QC STOCK	1 mL	5/31/2014

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ULTRAgrade™ Ion Chromatography Solution: 1000 µg/mL Perchlorate in low TOC water (< 50 ppb)
Catalog Number: ICC-013
Lot Number: L00429
Job Number: J00011173
Lot Issue Date: 04/17/2010
Expiration Date: 05/31/2014

Starting Material:	potasssium perchlorate
Starting Material Purity:	99.8%
Starting Material Lot No.:	NT00430

Certified Value: 1001 ± 2 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within ± 2.5%, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value for each analyte is determined gravimetrically.

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP-MS) vs. NIST SRM 3141a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

STANDARD REPORT

Working Standard - CLO4ISTDWRK

CLO4ISTDWRK				Description: Perchlorate ISTD Wrk	
Standard:	10682	**Expires:**	02/10/2012	**Usable:**	Yes
Lab Lot:	CLO4ISTDWRK	**Created By:**	T. Bosch	**Amount:**	100 mL
Part ID:		**Create Date:**	02/10/2011	**Validated By:**	T. Bosch
MFG:	ALS/SLC	**MFG Lot:**		**Validated Date:**	02/08/2010

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	1000 ug/L

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume Added	Expires
3915	CLO4ISTDST	Perchlorate ISTD Stock	CLO4ISTDSTK	1 mL	9/28/2017

STANDARD REPORT

Constituent

Stock Standard - CLO4ISTDSTK

CLO4ISTDSTK				Description	Perchlorate ISTD Stock
Standard:	3915	**Expires:**	9/28/2017	**Usable:**	Yes
Lab Lot:	CLO4ISTDSTK	**Created By:**	T. McKay	**Amount:**	1 mL
Part ID:	OLM-7310-1.2	**Create Date:**	2/5/2009	**Validated By:**	T. Bosch
MFG:	Cambridge Isotope	**MFG Lot:**	SCHI-001	**Validated Date:**	2/5/2009

Pos.	Analyte	Name	Concentration
1	14797-73-0	Perchlorate	100 ug/mL

Cambridge Isotope Laboratories, Inc.

50 Frontage Road, Andover, MA 01810-5413 USA
800.322.1174 (N.AMERICA) 978.749.8000 (INTERNATIONAL)
www.isotope.com

CERTIFICATE OF ANALYSIS

Product Name: PERCHLORIC ACID, SODIUM SALT
(Isotopic Label & Enrichment Specification) (18O4, 90%+) 100 UG/ML IN WATER

Lot Number: SCHI-001

Catalog Number: OLM-7310-S

S 3915

Product Information

Chemical Purity Specification:	≥ 98%
Labeled CAS Number:	NA
Unlabeled CAS Number:	7601-89-0
Molecular Weight:	130.4
Chemical Formula:	NaClO4
Storage:	Store at room temperature away from light and moisture.
Stability:	See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible.

Approved by: T. J. Eckersley

Timothy J. Eckersley, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	09/28/2007
Expiration Date	09/28/2017
Concentration Based on Gravimetry	100.0 µg/mL
Chemical Purity of Neat Material(s)	98%
LC/MS for Concentration	105.3 ± 4.4 µg/mL (K=2)

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

Batch Report: C:\HPCHEM\1\DATA\18MAY11P\18MAY11A.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#	*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT		Perchlorate Amount
	*	219404	CCV1	Vial 1	1	18MAY001.D	6.50089e5	12.547	24.49335
	*	219405	LODV1	Vial 2	1	18MAY002.D	4144.22900	12.549	1.59442e-1
	*	219406	ICS	Vial 3	1	18MAY003.D	2.13986e4	12.539	8.46863e-1
	*	219407	LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
	*	219408	LCS	Vial 5	1	18MAY005.D	1.05600e5	12.685	4.50823
	*	1113618001		Vial 6	1	18MAY006.D	2.17021e4	11.241	2.02186
	*	219409	136181S	Vial 7	1	18MAY007.D	8.81038e4	11.297 NR	7.52730
	*	219410	136181D	Vial 8	1	18MAY008.D	1.54466e5	11.287	6.55172
	*	1113713001		Vial 9	1	18MAY009.D	3.58555e5	10.925	19.57302
	*	219411	CCV2	Vial 1	1	18MAY010.D	6.42873e5	12.686	25.16005
	*	219412	LODV2	Vial 2	1	18MAY011.D	6074.81494	12.704	2.36525e-1

NR. Not Reported

#	*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
	*	219404	CCV1	Vial 1	1	18MAY001.D	2.08862e5	12.563	25.80039
	*	219405	LODV1	Vial 2	1	18MAY002.D	1670.90063	12.486	1.20886e-1
	*	219406	ICS	Vial 3	1	18MAY003.D	6626.75000	12.562	7.91232e-1
	*	219407	LMB	Vial 4	1	18MAY004.D	0.00000	0.000	0.00000
	*	219408	LCS	Vial 5	1	18MAY005.D	3.45846e4	12.696	4.87492
	*	1113618001		Vial 6	1	18MAY006.D	4403.96973	11.262	1.29501
	*	219409	136181S	Vial 7	1	18MAY007.D	2.03173e4	11.294	5.78414
	*	219410	136181D	Vial 8	1	18MAY008.D	4.28009e4	11.305	6.02725
	*	1113713001		Vial 9	1	18MAY009.D	1.18943e5	10.937	21.32566
	*	219411	CCV2	Vial 1	1	18MAY010.D	2.05124e5	12.700	26.32232
	*	219412	LODV2	Vial 2	1	18MAY011.D	2212.16699	12.686	1.94904e-1

#	*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
	*	219404	CCV1	Vial 1	1	18MAY001.D	9.64246e4	12.566	5.00000
	*	219405	LODV1	Vial 2	1	18MAY002.D	1.02264e5	12.616	5.00000
	*	219406	ICS	Vial 3	1	18MAY003.D	9.91827e4	12.555	5.00000
	*	219407	LMB	Vial 4	1	18MAY004.D	1.05239e5	12.644	5.00000
	*	219408	LCS	Vial 5	1	18MAY005.D	9.08126e4	12.692	5.00000
	*	1113618001		Vial 6	1	18MAY006.D	4.19646e4	11.286	5.00000
	*	219409	136181S	Vial 7	1	18MAY007.D	4.49222e4	11.305	5.00000
	*	219410	136181D	Vial 8	1	18MAY008.D	9.07809e4	11.310	5.00000
	*	1113713001		Vial 9	1	18MAY009.D	6.75993e4	10.934	5.00000
	*	219411	CCV2	Vial 1	1	18MAY010.D	9.26331e4	12.696	5.00000
	*	219412	LODV2	Vial 2	1	18MAY011.D	1.01024e5	12.742	5.00000

*** End of Report ***

Internal Standard Peak Area Responses

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s

ELMS Batch: 1182
HBN ID: 66508

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219404 CCV1	96,425	96,425	100.0%	Pass
Horizon# 10684	219405 LODV1	102,264	96,425	106.1%	Pass
Horizon# 10684	219406 ICS	99,183	96,425	102.9%	Pass
DI Water	219407 LMB	105,239	96,425	109.1%	Pass
Horizon# 10687	219408 LCS	90,813	96,425	94.2%	Pass
MWQ 22	1113618001	41,965	96,425	43.5%	Fail
MWQ 22 MS	219409 1113618001MS	44,922	96,425	46.6%	Fail
MWQ 22 MSD	219410 1113618001MSD	90,781	96,425	94.1%	Pass
MAO2MW001D	1113713001	67,599	96,425	70.1%	Pass
Horizon# 10684	219411 CCV2	92,633	96,425	96.1%	Pass
Horizon# 10684	219412 LODV2	101,024	96,425	104.8%	Pass

Sequence ID: 19MAY11P.s

Client Sample ID	DCL Sample ID	ISTD Peak Area	Target Peak Area	Percent Recovery	Pass/Fail
Horizon# 10684	219544 CCV4	94,733	94,733.0	100.0%	Pass
MWQ 22 5X	1113618001 5X	54,580	94,733.0	57.6%	Pass
MWQ 22 MS 5X	219409 1113618001MS 5X	62,677	94,733.0	66.2%	Pass
MWQ 22 MSD 5X	219410 1113618001MSD 5X	103,499	94,733.0	109.3%	Pass
Horizon# 10684	219545 CCV5	96,011	94,733.0	101.3%	Pass

Perchlorate Confirmation by 83:85 Ratio

Instrument ID: LCMS02

DCL Set ID(s): 1113618; 1113713

Sequence ID: 18MAY11P.s & 19MAY11P.s

ELMS Batch: 1182

HBN ID: 66508

Client Sample ID	DCL Sample ID	Mass 83 Peak Area	Mass 85 Peak Area	*Target Ratio Range	Mass 83/85 Ratio	Confirm Yes/No	
Horizon# 10684	219404 CCV1	650,089	208,862	2.3 - 3.8	3.11	Yes	
Horizon# 10684	219405 LODV1	4,144	1,671	2.3 - 3.8	2.48	Yes	
Horizon# 10684	219406 ICS	21,399	6,627	2.3 - 3.8	3.23	Yes	
DI Water	219407 LMB	ND	ND	2.3 - 3.8	ND	NA	
Horizon# 10687	219408 LCS	105,600	34,585	2.3 - 3.8	3.05	Yes	
MWQ 22	1113618001	21,702	4,404	2.3 - 3.8	4.93	No	**
MWQ 22 MS	219409 1113618001MS	88,104	20,317	2.3 - 3.8	4.34	No	**
MWQ 22 MSD	219410 1113618001MSD	154,466	42,801	2.3 - 3.8	3.61	Yes	
MAO2MW001D	1113713001	358,555	118,943	2.3 - 3.8	3.01	Yes	
Horizon# 10684	219411 CCV2	642,873	205,124	2.3 - 3.8	3.13	Yes	
Horizon# 10684	219412 LODV2	6,075	2,212	2.3 - 3.8	2.75	Yes	
Horizon# 10684	219544 CCV4	647,016	204,474	2.3 - 3.8	3.16	Yes	
MWQ 22 5X	1113618001 5X	3,853	3,752	2.3 - 3.8	1.03	No	
MWQ 22 MS 5X	219409 1113618001MS 5X	68,075	25,653	2.3 - 3.8	2.65	Yes	
MWQ 22 MSD 5X	219410 1113618001MSD 5X	111,150	41,160	2.3 - 3.8	2.70	Yes	
Horizon# 10684	219545 CCV5	674,705	208,426	2.3 - 3.8	3.24	Yes	

*Comments: 83/85 ratio often fails at levels near or below the LOD (See RLVS & LODVs).

** Sample fails ratio criteria due to baseline interference.

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\18MAY11P.S

Sequence Table:

Method and Injection Info Part:

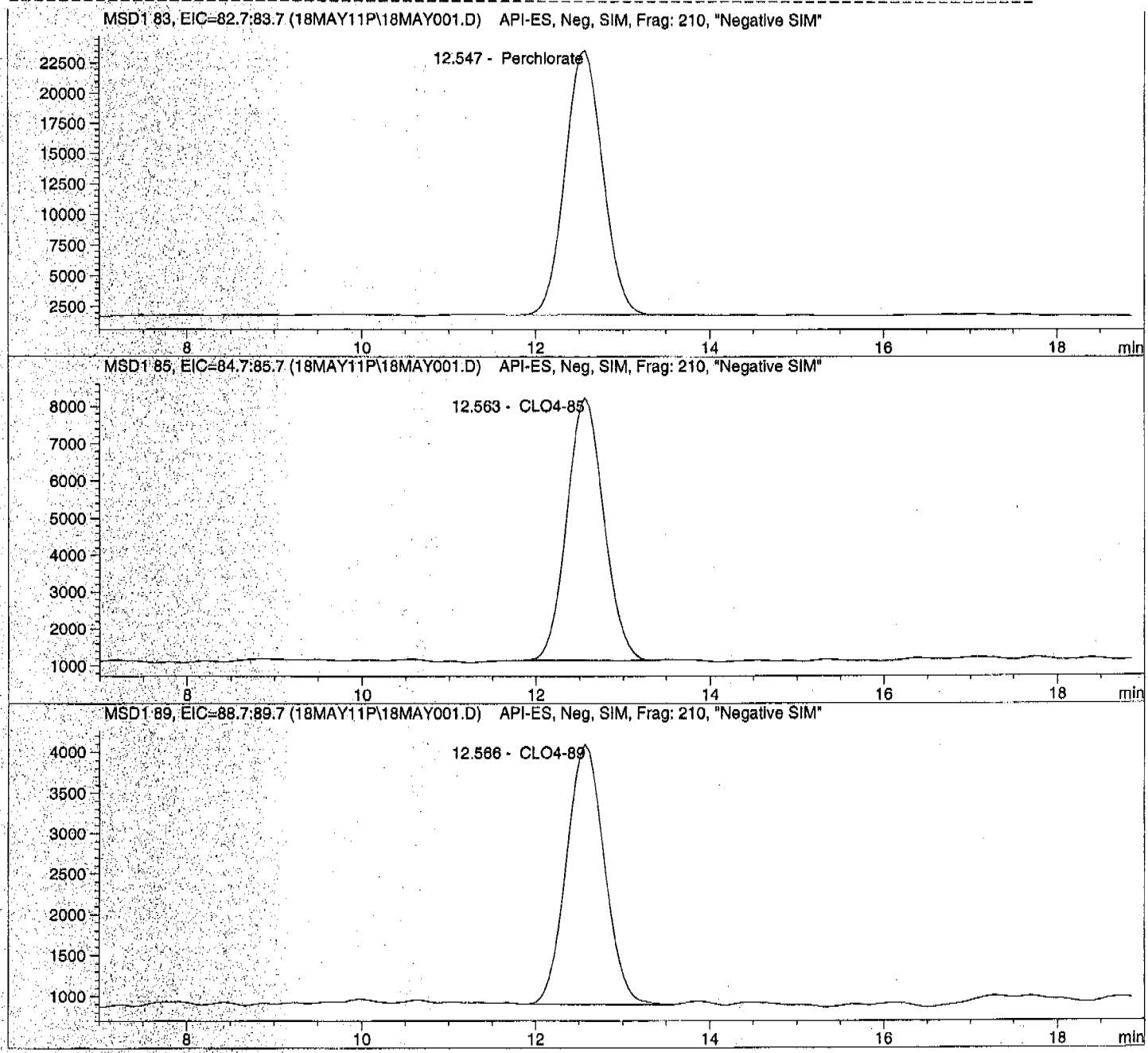
Line	Location	SampleName		Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219404	CCV1	CLO4-ON	1	Ctrl Samp		
2	Vial 2	219405	LODV1	CLO4-ON	1	Ctrl Samp		
3	Vial 3	219406	ICS	CLO4-ON	1	Ctrl Samp		
4	Vial 4	219407	LMB	CLO4-ON	1	Ctrl Samp		
5	Vial 5	219408	LCS	CLO4-ON	1	Ctrl Samp		
6	Vial 6	1113618001		CLO4-ON	1	Sample		
7	Vial 7	219409	136181S	CLO4-ON	1	Sample		
8	Vial 8	219410	136181D	CLO4-ON	1	Sample		
9	Vial 9	1113713001		CLO4-ON	1	Sample		
10	Vial 1	219411	CCV2	CLO4-ON	1	Ctrl Samp		
11	Vial 2	219412	LODV2	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY001.D Sample Name: 219404 CCV1

Injection Date:	5/18/2011 16:04:58	Seq Line:	1
Sample Name:	219404 CCV1	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.547	MM	650088.6	24.4933	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.563	MM	208862.4	25.8004	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.566	MM	96424.6	5.0000	CLO4-89

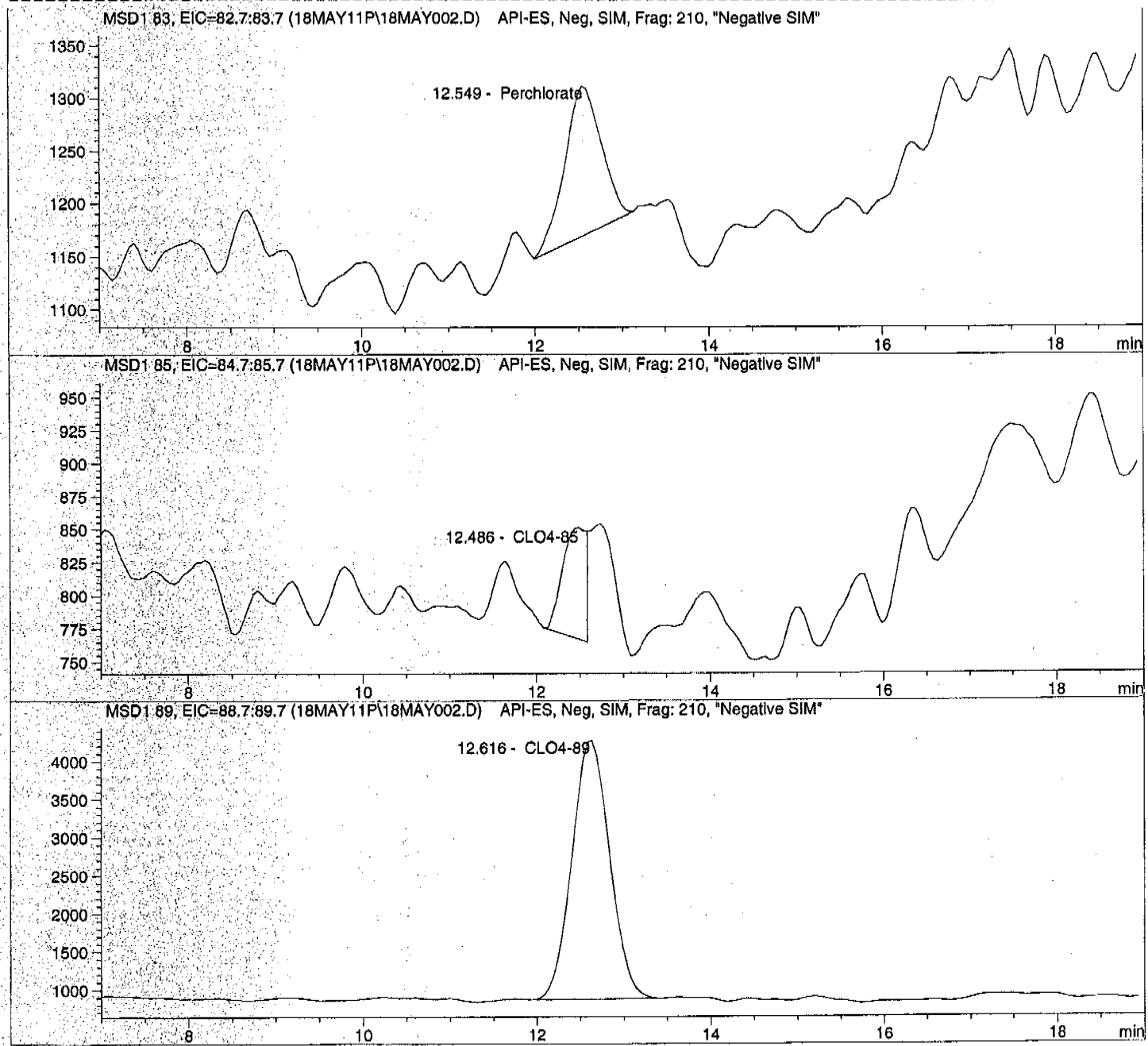
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY002.D Sample Name: 219405 LODV1

Injection Date:	5/18/2011 16:25:43	Seq Line:	2
Sample Name:	219405 LODV1	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.549	MM	4144.2	0.1594	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.486	MF	1670.9	0.1209	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.616	MM	102264.1	5.0000	CLO4-89

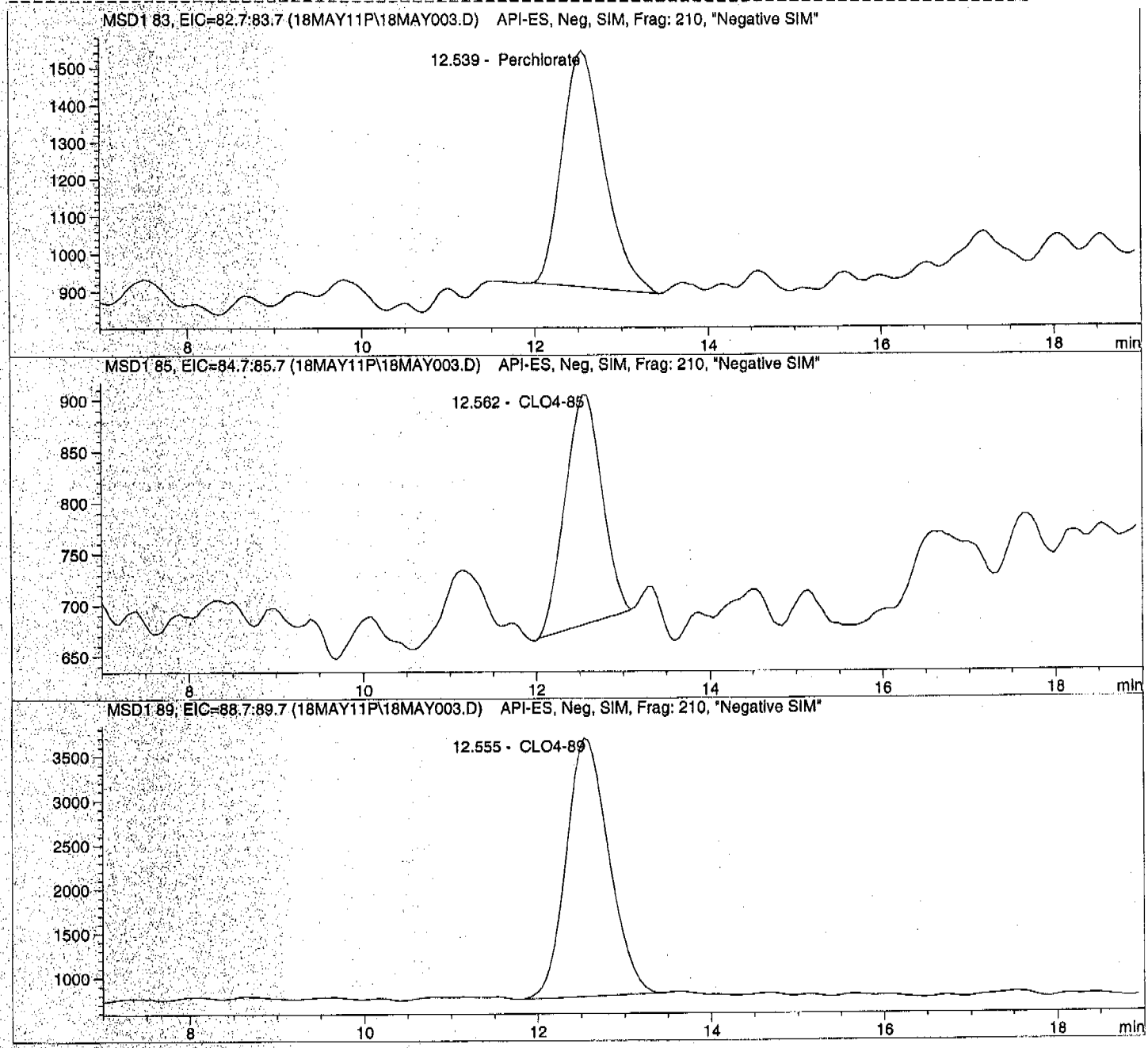
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY003.D Sample Name: 219406 ICS

Injection Date:	5/18/2011 16:46:34	Seq Line:	3
Sample Name:	219406 ICS	Location:	Vial 3
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.539	MM	21398.6	0.8469	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.562	MM	6626.7	0.7912	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.555	MM	99182.7	5.0000	CLO4-89

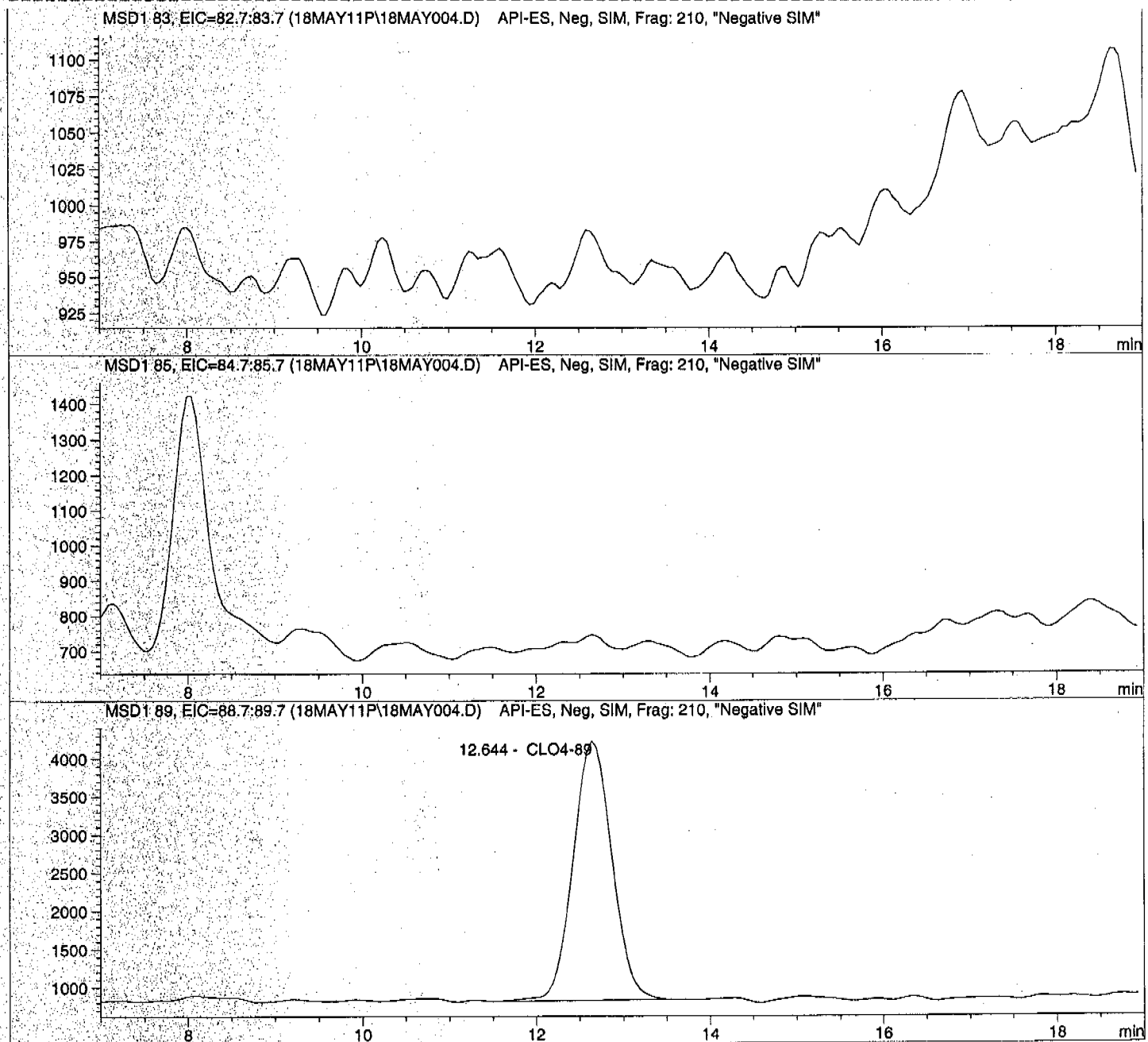
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY004.D Sample Name: 219407 LMB

Injection Date:	5/18/2011 17:07:23	Seq Line:	4
Sample Name:	219407 LMB	Location:	Vial 4
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
0.000		0.0	0.0000	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.644	MM	105238.7	5.0000	CLO4-89

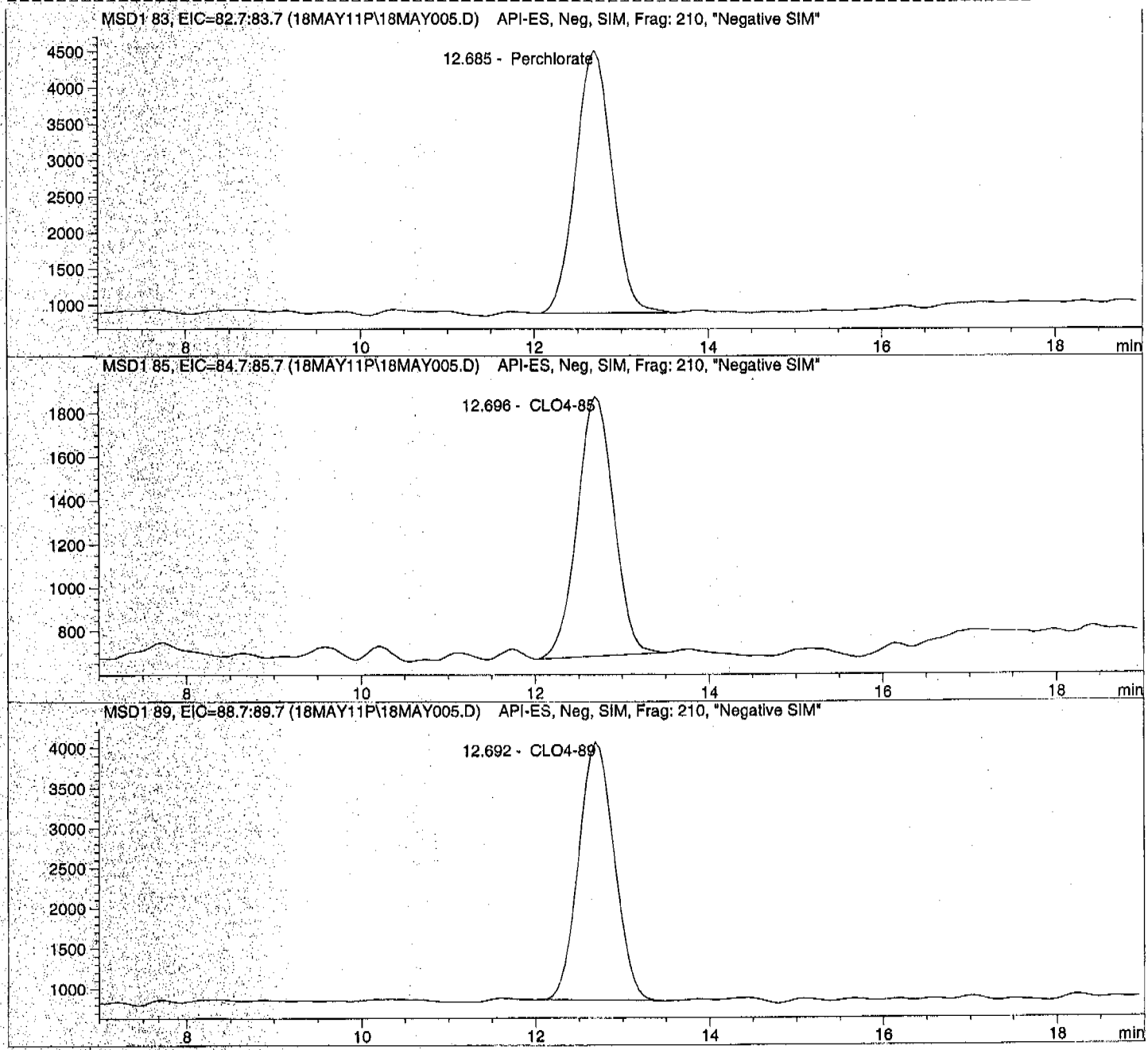
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY005.D Sample Name: 219408 LCS

Injection Date:	5/18/2011 17:28:11	Seq Line:	5
Sample Name:	219408 LCS	Location:	Vial 5
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.685	MM	105600.0	4.5082	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	VB	34584.6	4.8749	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.692	MM	90812.6	5.0000	CLO4-89

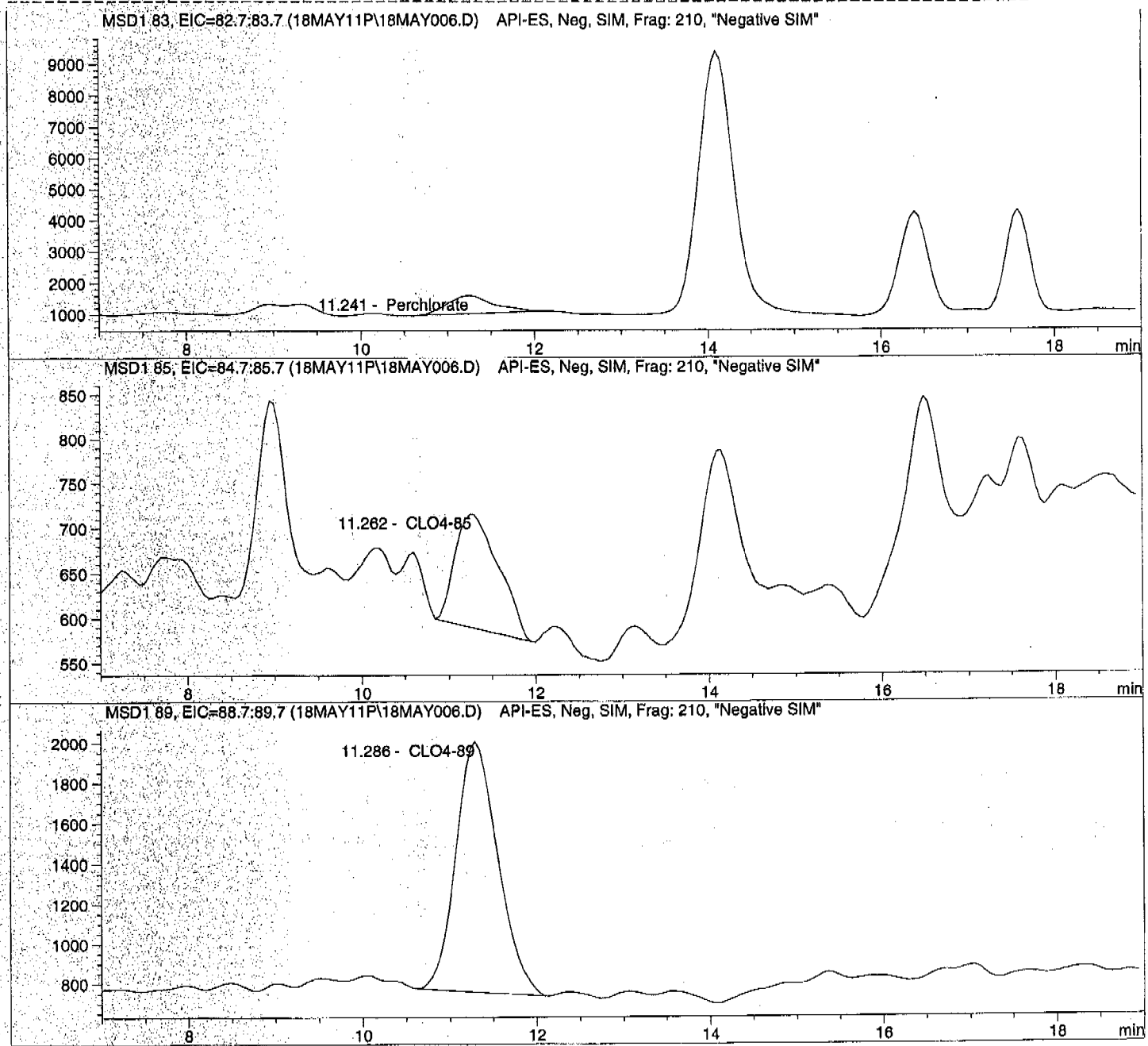
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY006.D Sample Name: 1113618001

Injection Date:	5/18/2011 17:49:01	Seq Line:	6
Sample Name:	1113618001	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.241	MM	21702.1	2.0219	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.262	VB	4404.0	1.2950	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.286	PBA	41964.6	5.0000	CLO4-89

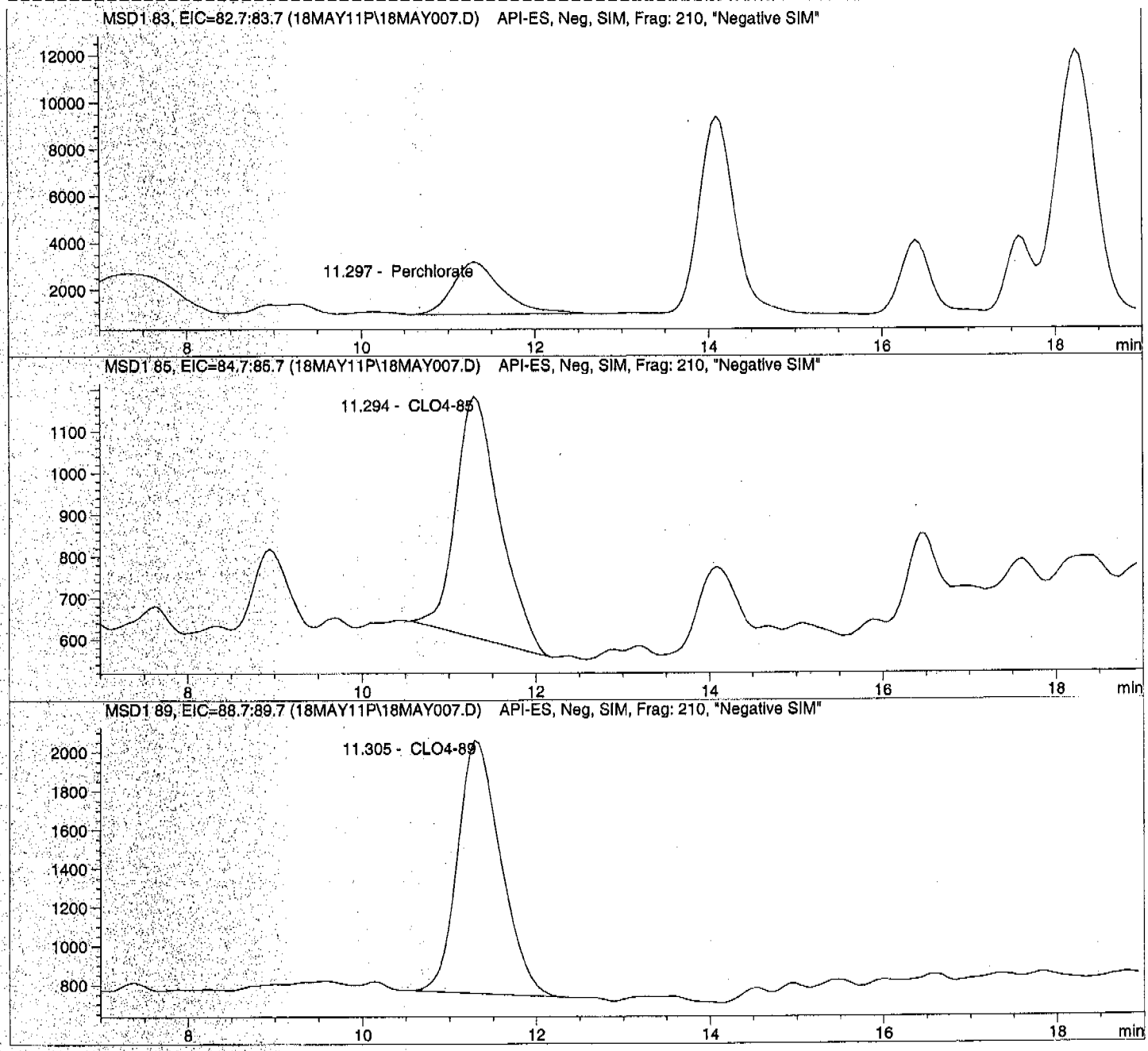
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY007.D Sample Name: 219409 136181S

Injection Date:	5/18/2011 18:09:51	Seq Line:	7
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.297	VBA	88103.8	7.5273	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.294	MM	20317.3	5.7841	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	MM	44922.2	5.0000	CLO4-89

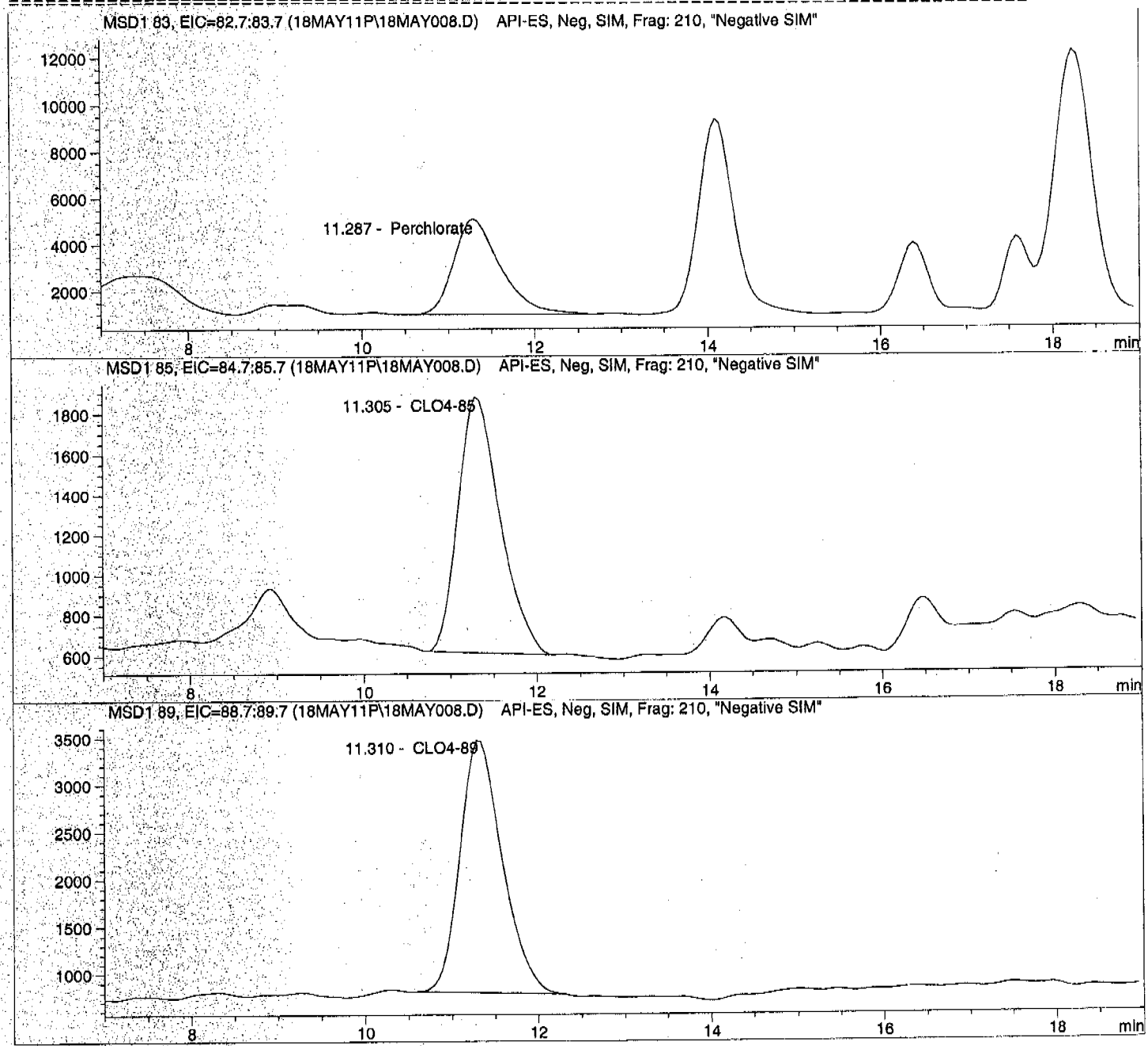
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date:	5/18/2011 18:30:40	Seq Line:	8
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY008.D Sample Name: 219410 136181D

Injection Date: 5/18/2011 18:30:40 Seq Line: 8
Sample Name: 219410 136181D Location: Vial 8
Acq Operator: TNB Inj. No.: 1
Inj. Vol.: 20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.287	MM	154465.8	6.5517	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.305	PBA	42800.9	6.0272	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
11.310	MM	90780.9	5.0000	CLO4-89

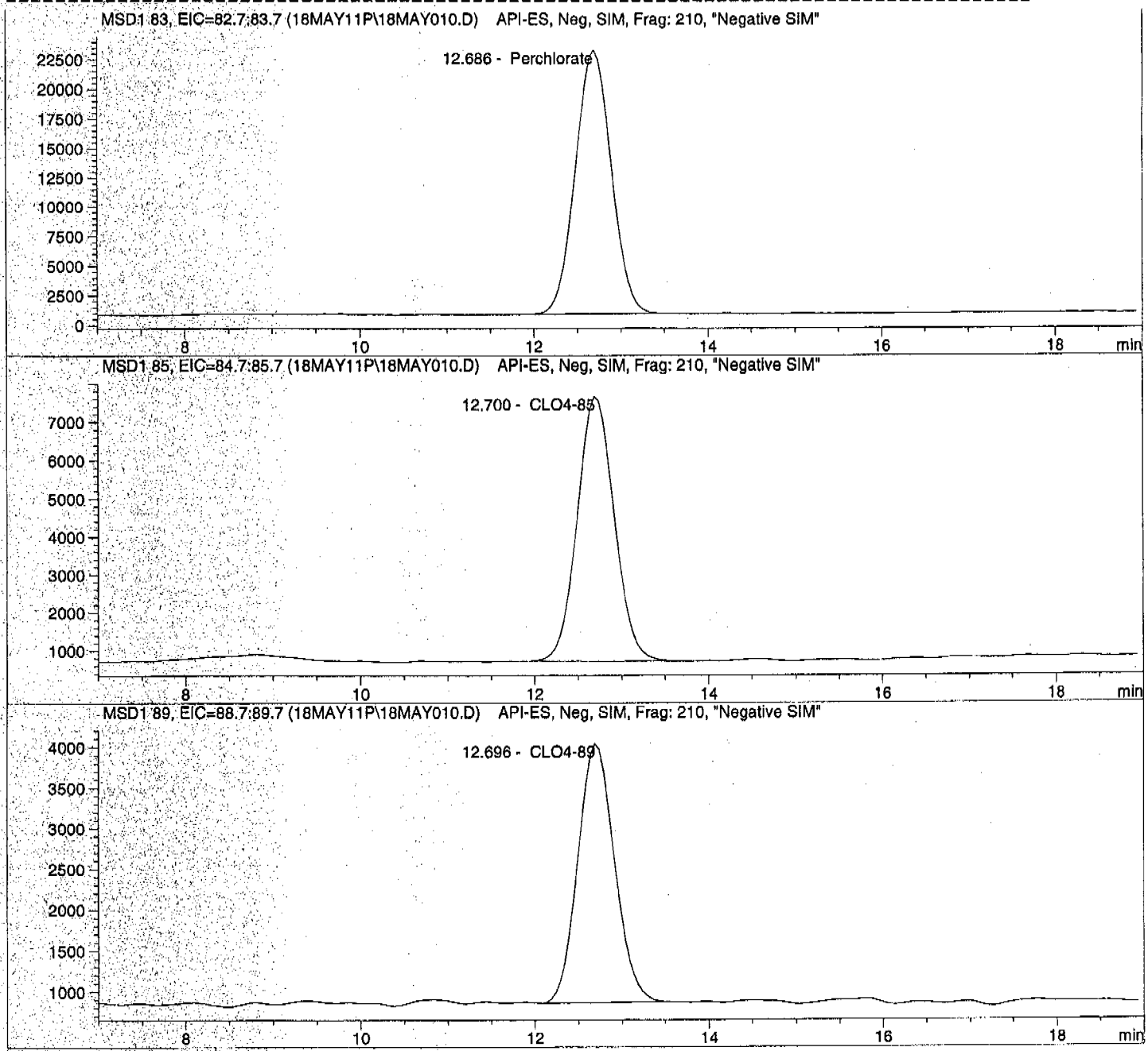
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY010.D Sample Name: 219411 CCV2

Injection Date:	5/18/2011 19:12:20	Seq Line:	10
Sample Name:	219411 CCV2	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	642872.6	25.1600	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.700	MM	205123.5	26.3223	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.696	MM	92633.1	5.0000	CLO4-89

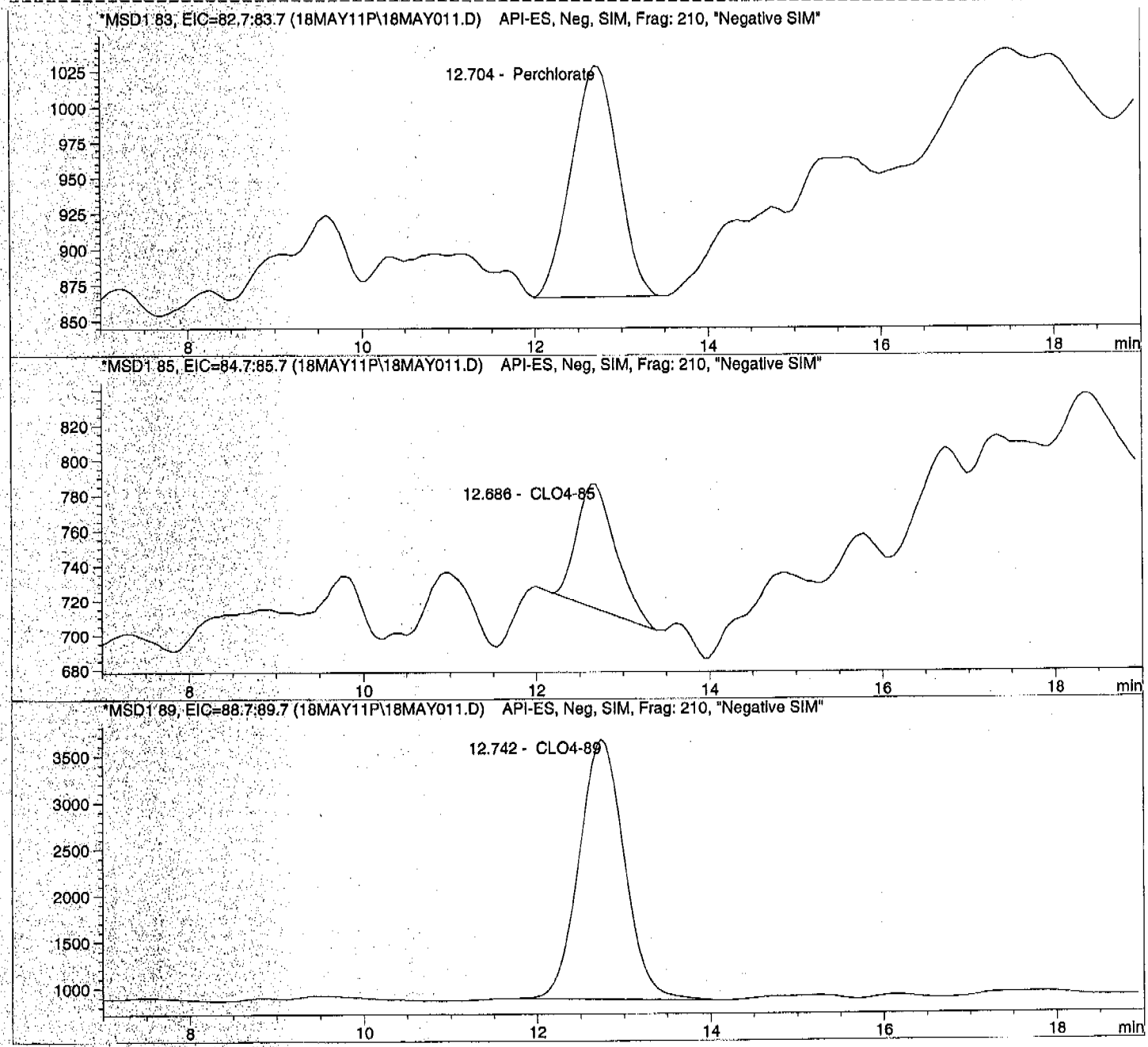
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\18MAY11P\18MAY011.D Sample Name: 219412 LODV2

Injection Date:	5/18/2011 19:33:10	Seq Line:	11
Sample Name:	219412 LODV2	Location:	Vial 2
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.704	MM	6074.8	0.2365	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.686	MM	2212.2	0.1949	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.742	MM	101023.7	5.0000	CLO4-89

*** End of Report ***

Batch Report: C:\HPCHEM\1\DATA\19MAY11P\19MAY11P.B

Batch Review Method:
C:\HPCHEM\1\METHODS\CLO4OFF1.M

['#' ==> Run has not been reprocessed with Batch Review Method
'*' ==> Run has been saved with batch file]

#	*	Sample	Location	Dilution	DataFile	Perchlorate Area	Perchlorate RT	Perchlorate Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	6.47016e5	12.832	24.78978
	*	1113618001 5X	Vial 6	5	19MAY002.D	3852.83130	12.033	1.38811
	*	219409 136181S	Vial 7	5	19MAY003.D	6.80751e4	12.034	21.07493
	*	219410 136181D	Vial 8	5	19MAY004.D	1.11150e5	12.036	20.84154
	*	219545 CCV4	Vial 1	1	19MAY005.D	6.74705e5	12.792	25.45333

#	*	Sample	Location	Dilution	DataFile	CLO4-85 Area	CLO4-85 RT	CLO4-85 Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	2.04474e5	12.845	25.71764
	*	1113618001 5X	Vial 6	5	19MAY002.D	3752.44458	12.187	4.08445
	*	219409 136181S	Vial 7	5	19MAY003.D	2.56534e4	12.057	26.18980
	*	219410 136181D	Vial 8	5	19MAY004.D	4.11599e4	12.052	25.45005
	*	219545 CCV4	Vial 1	1	19MAY005.D	2.08426e5	12.810	25.85212

#	*	Sample	Location	Dilution	DataFile	CLO4-89 Area	CLO4-89 RT	CLO4-89 Amount
	*	219544 CCV3	Vial 1	1	19MAY001.D	9.47329e4	12.848	5.00000
	*	1113618001 5X	Vial 6	5	19MAY002.D	5.45798e4	12.058	25.00000
	*	219409 136181S	Vial 7	5	19MAY003.D	6.26771e4	12.056	25.00000
	*	219410 136181D	Vial 8	5	19MAY004.D	1.03499e5	12.062	25.00000
	*	219545 CCV4	Vial 1	1	19MAY005.D	9.60113e4	12.812	5.00000

*** End of Report ***

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\MAY11\19MAY11P.S

Sequence Table:

Method and Injection Info Part:

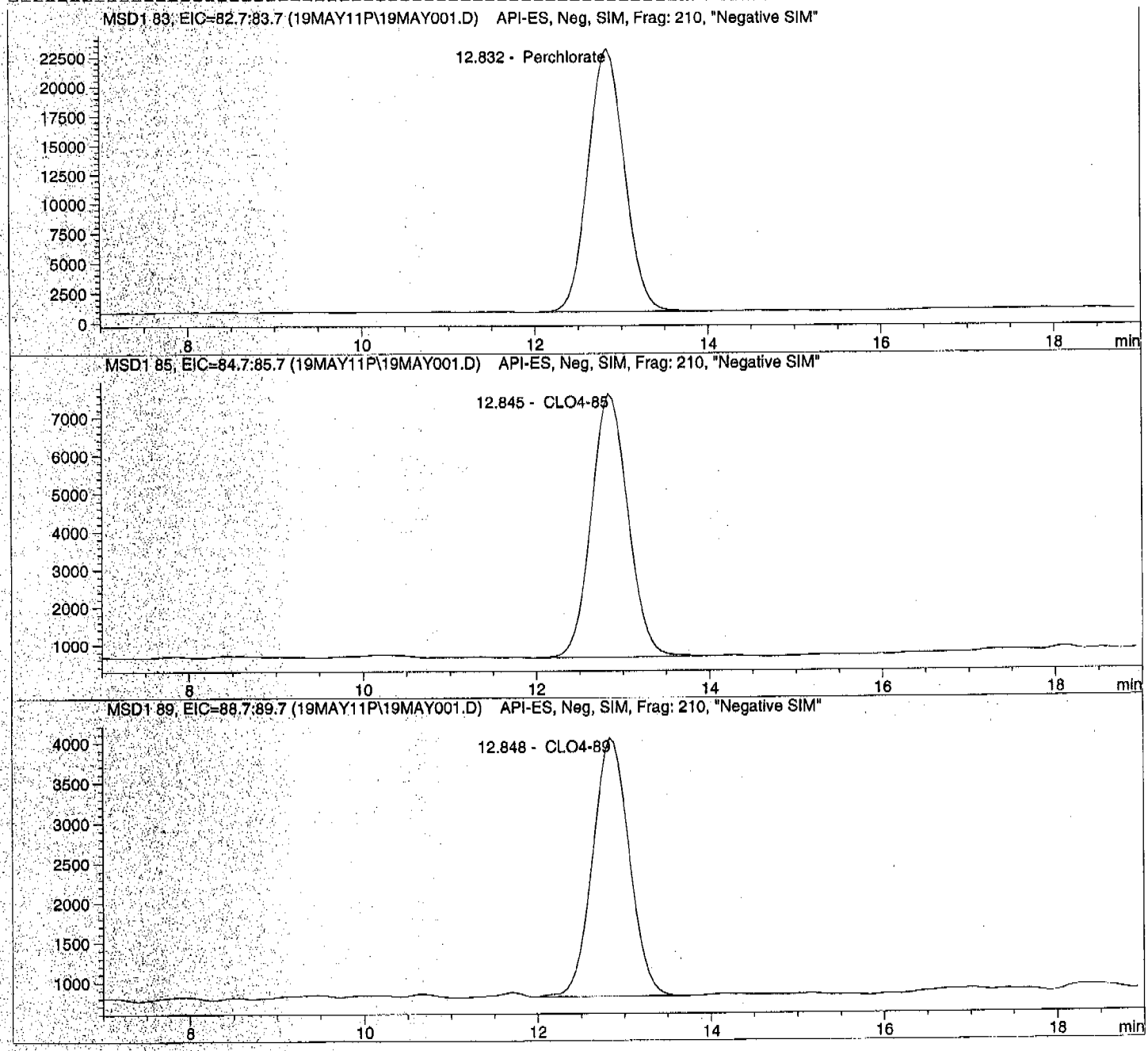
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	219544 CCV3	CLO4-ON	1	Ctrl Samp		
2	Vial 6	1113618001 5X	CLO4-ON	1	Sample		
3	Vial 7	219409 136181S	CLO4-ON	1	Sample		
4	Vial 8	219410 136181D	CLO4-ON	1	Sample		
5	Vial 1	219545 CCV4	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY001.D Sample Name: 219544 CCV3

Injection Date:	5/19/2011 10:27:53	Seq Line:	1
Sample Name:	219544 CCV3	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.832	MM	647016.4	24.7898	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.845	MM	204474.3	25.7176	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.848	VBA	94732.9	5.0000	CLO4-89

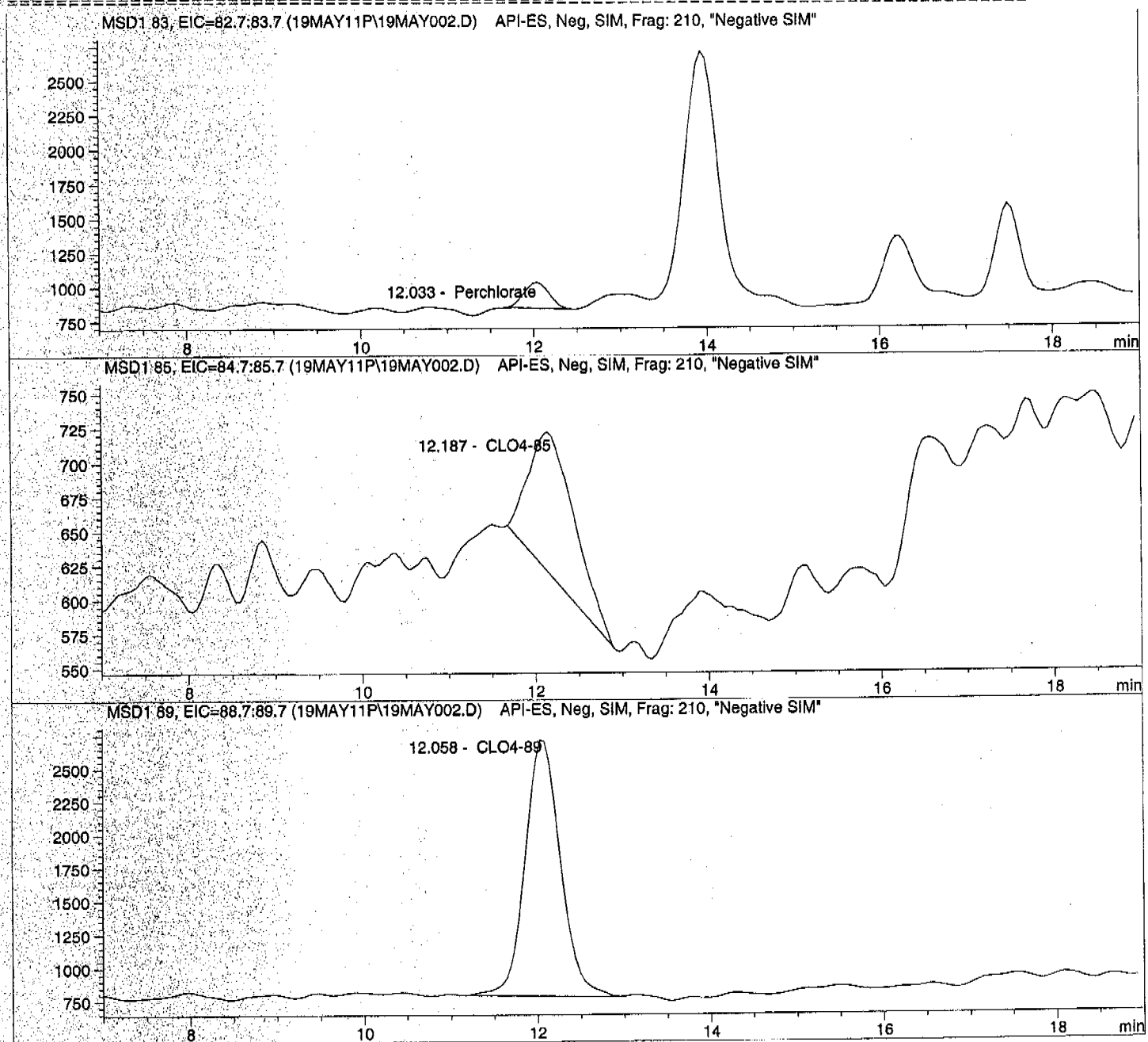
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY002.D Sample Name: 1113618001 5X

Injection Date:	5/19/2011 10:48:43	Seq Line:	2
Sample Name:	1113618001 5X	Location:	Vial 6
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.033	MM	3852.8	1.3881	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.187	MM	3752.4	4.0844	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.058	MM	54579.8	25.0000	CLO4-89

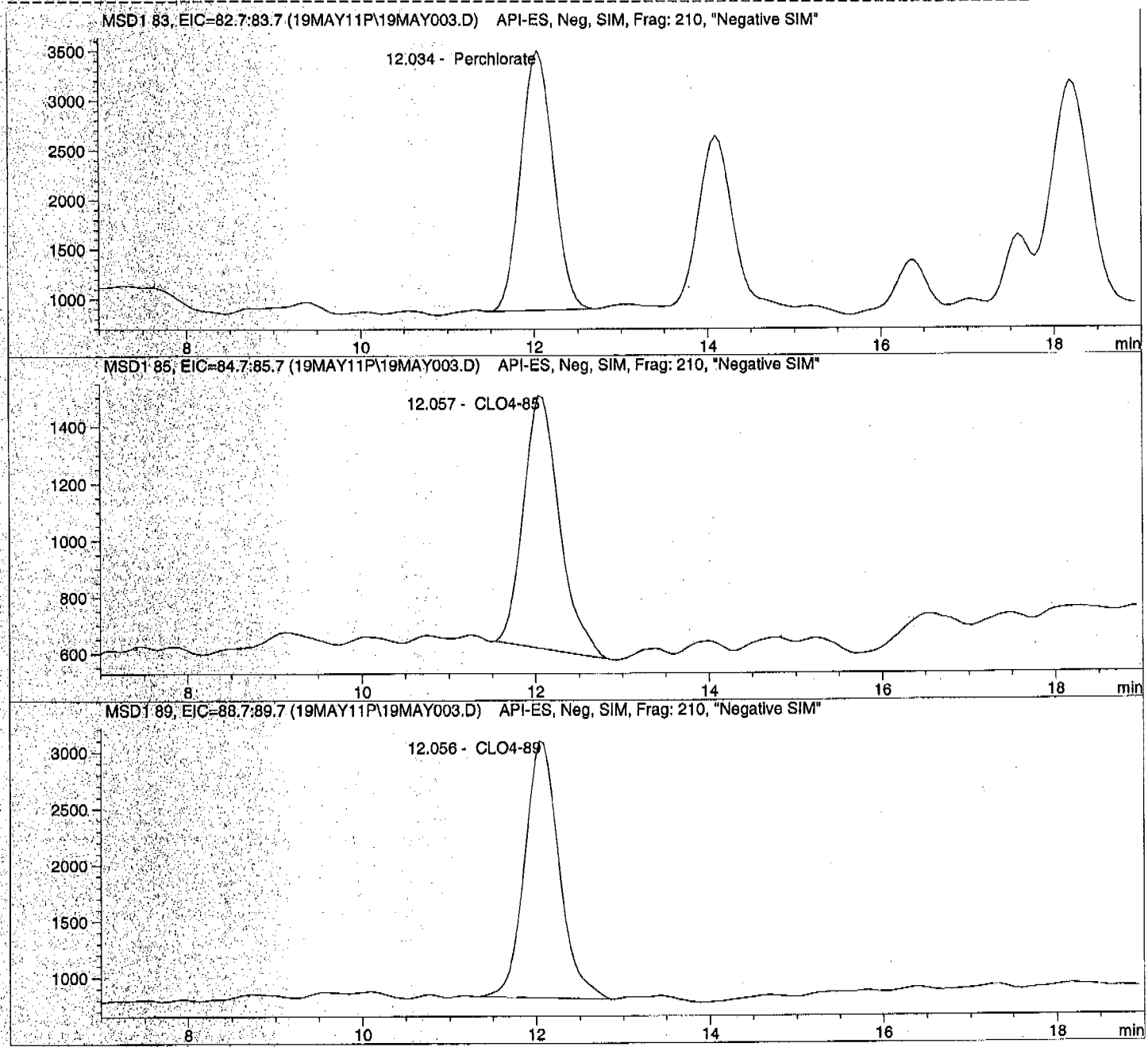
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY003.D Sample Name: 219409 136181S

Injection Date:	5/19/2011 11:09:33	Seq Line:	3
Sample Name:	219409 136181S	Location:	Vial 7
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	5.000000
Sample Amount:	0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.034	MM	68075.1	21.0749	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.057	MM	25653.4	26.1898	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.056	MM	62677.1	25.0000	CLO4-89

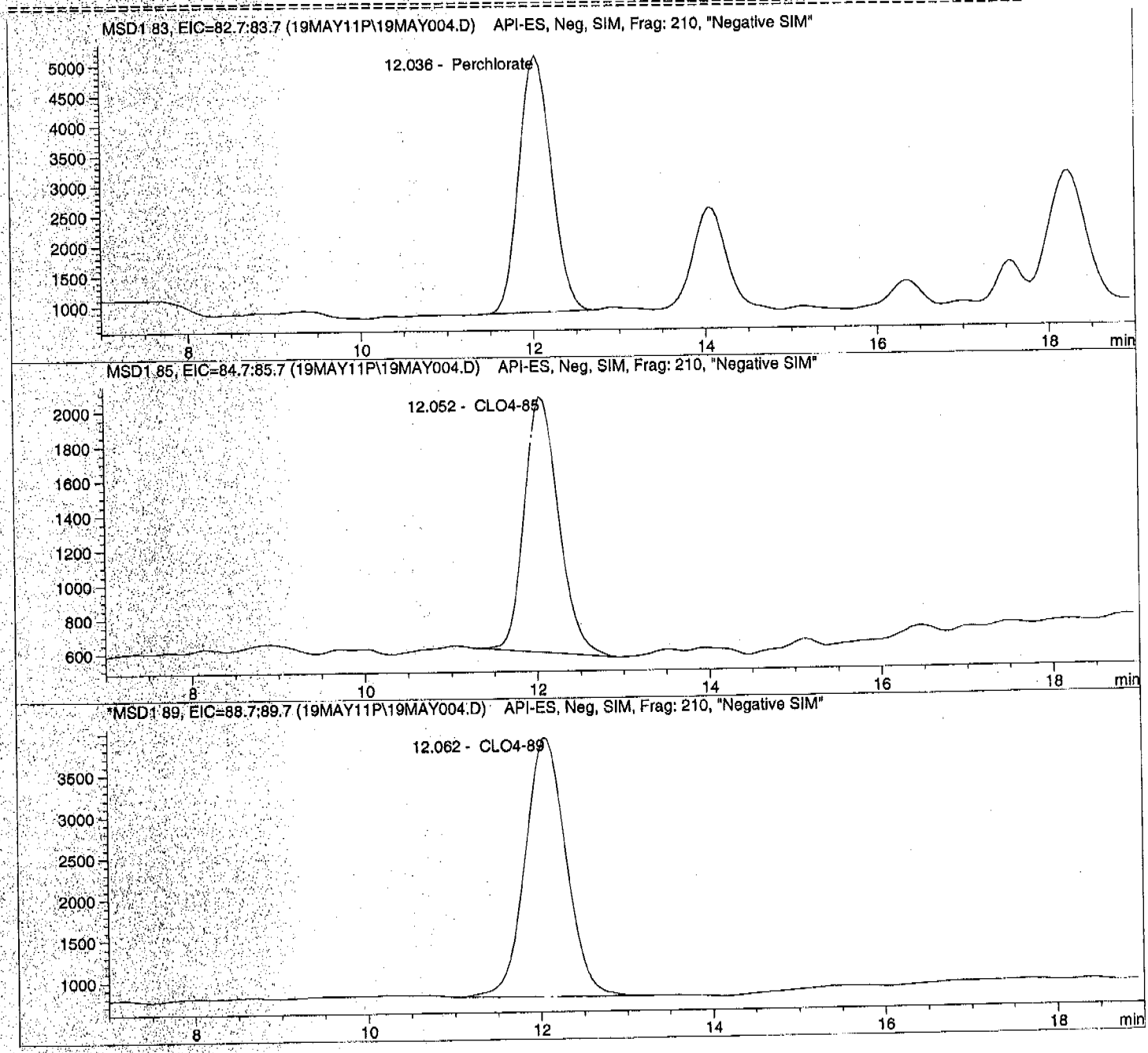
*** End of Report ***

Data File: C:\HPCHEM\1\DATA\19MAY004.D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY004.D Sample Name: 219410 136181D

Injection Date:	5/19/2011 11:30:23	Seq Line:	4
Sample Name:	219410 136181D	Location:	Vial 8
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Thu, 17. Mar. 2011,08:29:23 am
Multiplier: 1.000000
Dilution: 5.000000
Sample Amount: 0.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.036	MM	111150.0	20.8415	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.052	VBA	41159.9	25.4500	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.062	MM	103498.7	25.0000	CLO4-89

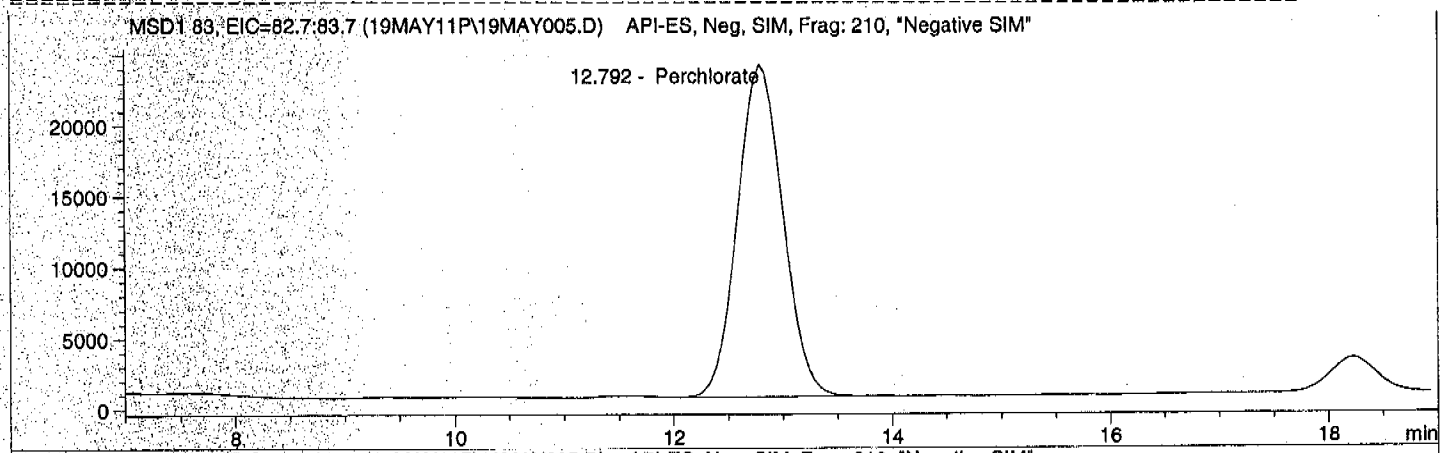
*** End of Report ***

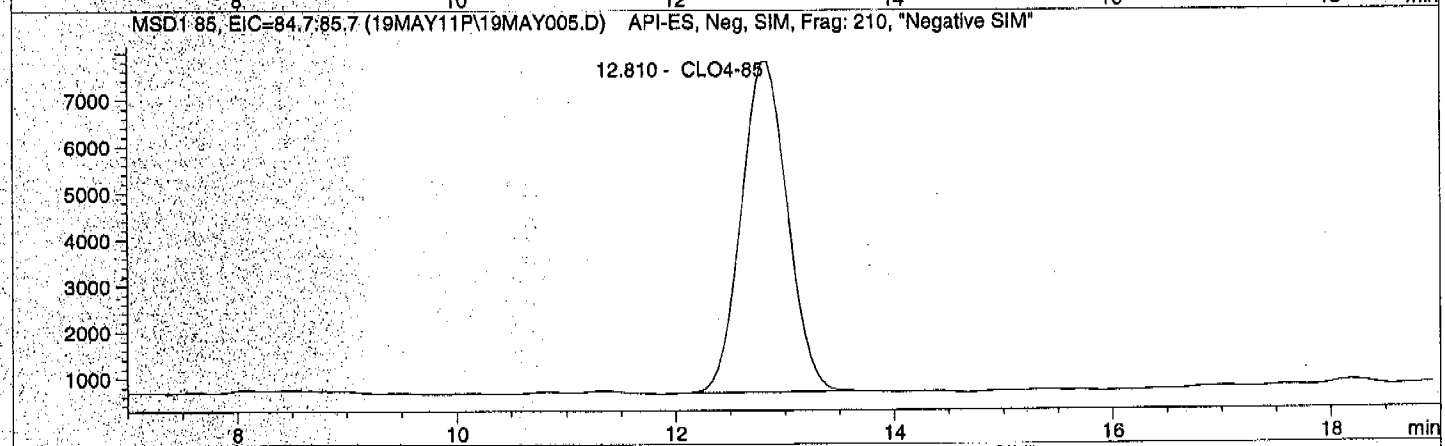
Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

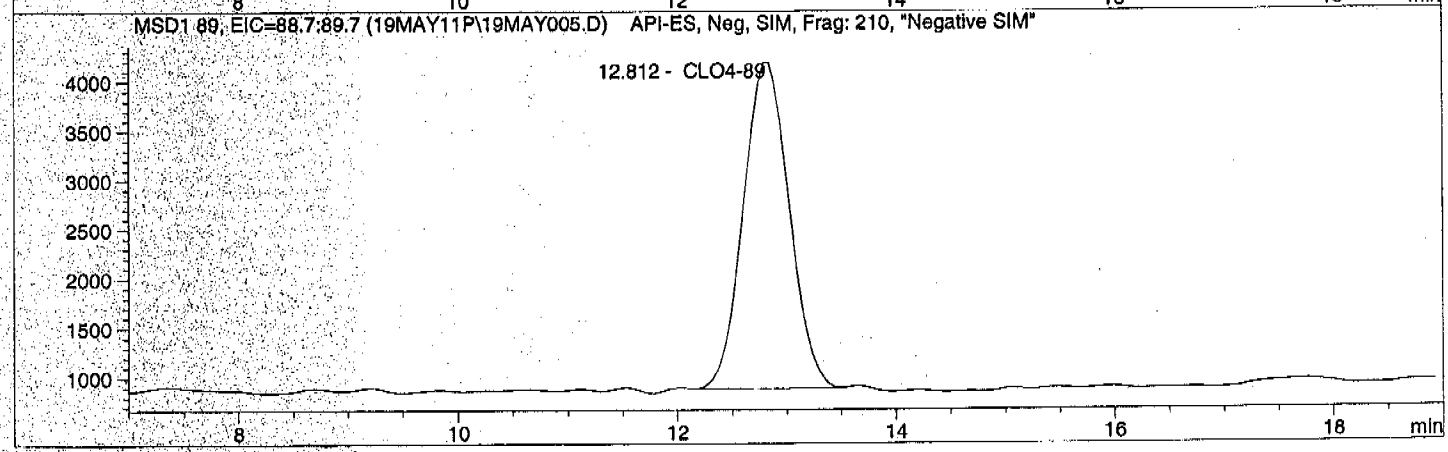
Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\19MAY11P\19MAY005.D Sample Name: 219545 CCV4

Injection Date:	5/19/2011 11:51:15	Seq Line:	5
Sample Name:	219545 CCV4	Location:	Vial 1
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 5/18/2011 10:08:26

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Thu, 17. Mar. 2011,08:29:23 am
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.792	VBA	674705.4	25.4533	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.810	MM	208426.0	25.8521	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
12.812	MM	96011.3	5.0000	CLO4-89

*** End of Report ***

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Raw Data

ICAL

Calibration Table

Perchlorate

Calib. Data Modified : 3/1/2011 1:40:13 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 20.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 20.000 %
Abs. Non-ref. Window : 0.000 min
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Quadratic (some peaks differ, see below)
Origin : Ignored (some peaks differ, see below)
Weight : Linear (Amnt) (some peaks differ, see below)

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	CLO4-89

Signal 1: MSD1 83, EIC=82.7:83.7
Signal 2: MSD1 85, EIC=84.7:85.7
Signal 3: MSD1 89, EIC=88.7:89.7

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
14.057	1	1	1.00000e-1	3246.67529	3.08007e-5	1		Perchlorate
		2	2.00000e-1	6422.78564	3.11391e-5			
		3	5.00000e-1	1.76784e4	2.82831e-5			
		4	1.00000	3.17938e4	3.14526e-5			
		5	5.00000	1.48379e5	3.36974e-5			
		6	10.00000	3.04915e5	3.27960e-5			
		7	25.00000	8.50482e5	2.93951e-5			
		8	50.00000	1.73668e6	2.87906e-5			
14.072	3	1	5.00000	1.22887e5	4.06878e-5	+I1		CLO4-89
		2	5.00000	1.24408e5	4.01905e-5			
		3	5.00000	1.28066e5	3.90425e-5			
		4	5.00000	1.22882e5	4.06893e-5			
		5	5.00000	1.23453e5	4.05013e-5			
		6	5.00000	1.30983e5	3.81730e-5			
		7	5.00000	1.22545e5	4.08013e-5			
		8	5.00000	1.14310e5	4.37409e-5			
14.074	2	1	1.00000e-1	2039.09863	4.90413e-5	1		CLO4-85
		2	2.00000e-1	1967.01294	1.01677e-4			
		3	5.00000e-1	7175.34229	6.96831e-5			
		4	1.00000	8889.86523	1.12488e-4			
		5	5.00000	5.17160e4	9.66818e-5			

ethod C:\HPCHEM\1\METHODS\CLO4OFF1.M

RetTime [min]	Sig	Lvl	Amount [ug/L]	Area	Amt/Area	Ref	Grp	Name
		6	10.00000	9.73733e4	1.02698e-4			
		7	25.00000	2.60350e5	9.60248e-5			
		8	50.00000	5.24553e5	9.53193e-5			

More compound-specific settings:

Compound: Perchlorate
- Time Window : From 10.107 min To 18.107 min
- Curve Type : Quadratic
- Origin : Forced
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.25
  - Level 3 : 0.04
  - Level 4 : 0.01
  - Level 5 : 0.0004
  - Level 6 : 0.0001
  - Level 7 : 0.000016
  - Level 8 : 4e-006

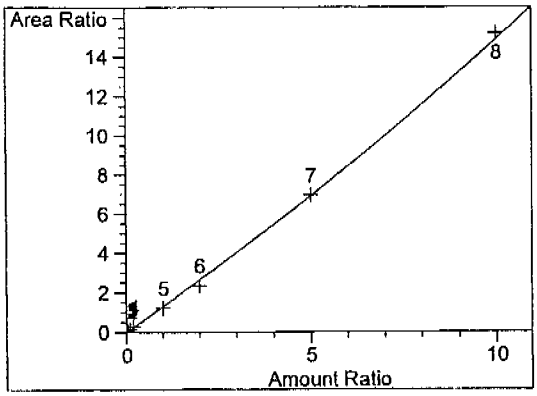
Compound: CLO4-89
- Time Window : From 10.065 min To 18.065 min
- Curve Type : Linear
- Origin : Included
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 1
  - Level 3 : 1
  - Level 4 : 1
  - Level 5 : 1
  - Level 6 : 1
  - Level 7 : 1
  - Level 8 : 1

Compound: CLO4-85
- Time Window : From 10.121 min To 18.121 min
- Curve Type : Quadratic
- Origin : Ignored
- Calibration Level Weights:/
  - Level 1 : 1
  - Level 2 : 0.5
  - Level 3 : 0.2
  - Level 4 : 0.1
  - Level 5 : 0.02
  - Level 6 : 0.01
  - Level 7 : 0.004
  - Level 8 : 0.002

Peak Sum Table

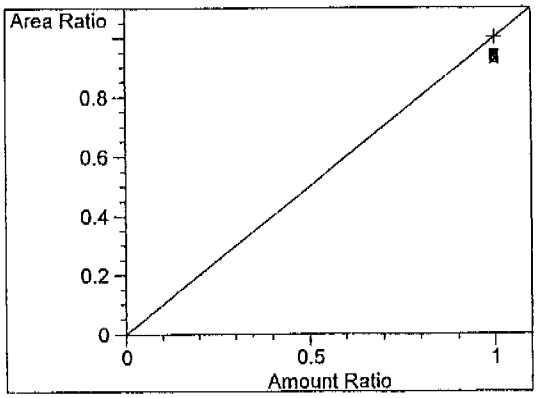
No Entries in table

Calibration Curves



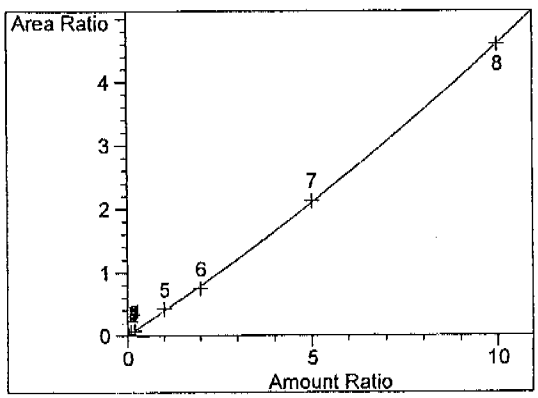
Perchlorate at exp. RT: 14.057
MSD1 83, EIC=82.7:83.7
Correlation: 0.99834
Residual Std. Dev.: 0.17128
Formula: $y = ax^2 + bx$
a: 2.16665e-2
b: 1.27014
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:

Level 1	: 1
Level 2	: 0.25
Level 3	: 0.04
Level 4	: 0.01
Level 5	: 0.0004
Level 6	: 0.0001
Level 7	: 0.000016
Level 8	: 4e-006



CLO4-89 at exp. RT: 14.072
MSD1 89, EIC=88.7:89.7
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:

Level 1	: 1
Level 2	: 1
Level 3	: 1
Level 4	: 1
Level 5	: 1
Level 6	: 1
Level 7	: 1
Level 8	: 1



CLO4-85 at exp. RT: 14.074
MSD1 85, EIC=84.7:85.7
Correlation: 0.99924
Residual Std. Dev.: 0.02721
Formula: $y = ax^2 + bx + c$
a: 8.41456e-3
b: 3.74946e-1
c: 7.26902e-3
x: Amount Ratio
y: Area Ratio
Calibration Level Weights:

Level 1	: 1
Level 2	: 0.5
Level 3	: 0.2
Level 4	: 0.1
Level 5	: 0.02
Level 6	: 0.01
Level 7	: 0.004
Level 8	: 0.002

Sequence: C:\HPCHEM\1\SEQUENCE\CLO4\FEB11\28FEB11I.S

Sequence Table:

Method and Injection Info Part:

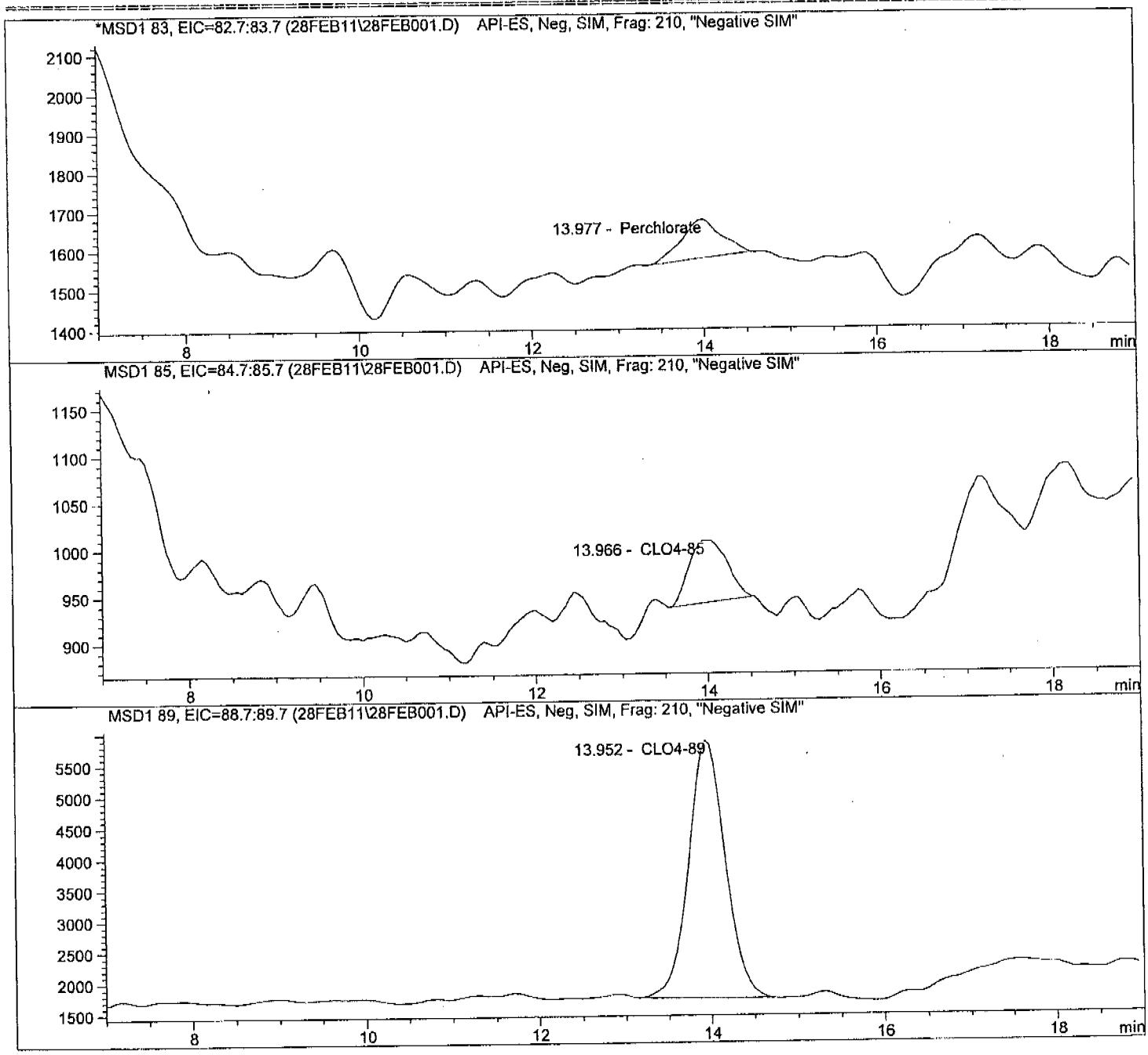
Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 21	CLO4 ICAL#1@ .1	CLO4-ON	1	Ctrl Samp		
2	Vial 22	CLO4 ICAL#2@ .2	CLO4-ON	1	Ctrl Samp		
3	Vial 23	CLO4 ICAL#3@ .5	CLO4-ON	1	Ctrl Samp		
4	Vial 24	CLO4 ICAL#4@ 1.	CLO4-ON	1	Ctrl Samp		
5	Vial 25	CLO4 ICAL#5@ 5.	CLO4-ON	1	Ctrl Samp		
6	Vial 26	CLO4 ICAL#6@ 10	CLO4-ON	1	Ctrl Samp		
7	Vial 27	CLO4 ICAL#7@ 25	CLO4-ON	1	Ctrl Samp		
8	Vial 28	CLO4 ICAL#8@ 50	CLO4-ON	1	Ctrl Samp		
9	Vial 29	CLO4 ICV @ 10	CLO4-ON	1	Ctrl Samp		

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB001.D Sample Name: CLO4 ICAL#1@ .1

Injection Date:	2/28/2011 13:44:22	Seq Line:	1
Sample Name:	CLO4 ICAL#1@ .1	Location:	Vial 21
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By:	Signal
Calib. Data Modified:	Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier:	1.000000
Dilution:	1.000000
Sample Amount:	0.100 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.977	MM	3246.7	0.1040	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.966	MM	2039.1	0.1243	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.952	VB	122887.0	5.0000	CLO4-89

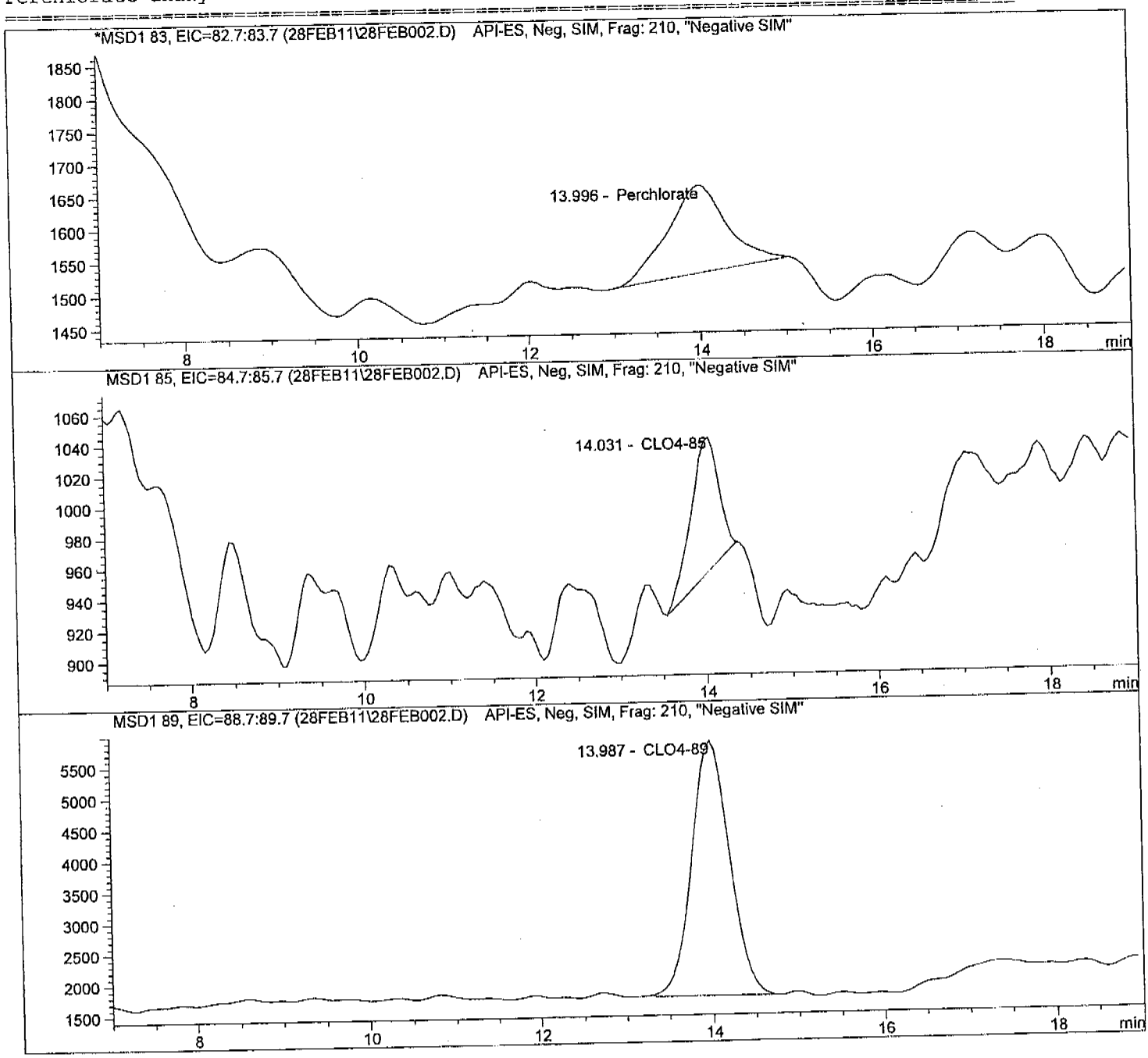
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB002.D Sample Name: CLO4 ICAL#2@ .2

Injection Date:	2/28/2011 14:05:13	Seq Line:	2
Sample Name:	CLO4 ICAL#2@ .2	Location:	Vial 22
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.200 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.996	MM	6422.8	0.2031	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.031	MM	1967.0	0.1139	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.987	MM	124407.5	5.0000	CLO4-89

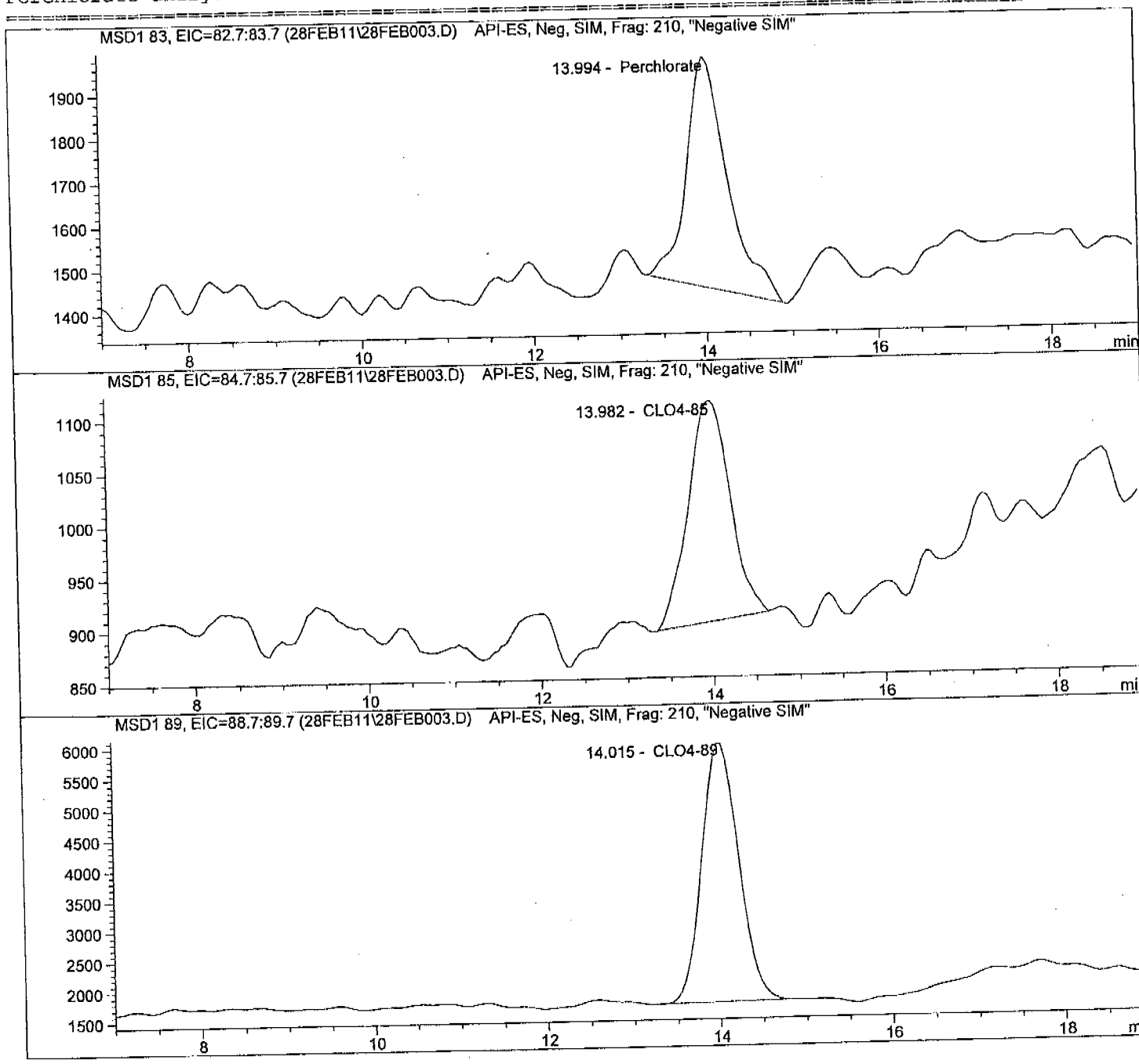
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB003.D Sample Name: CLO4 ICAL#3@ .5

Injection Date:	2/28/2011 14:26:04	Seq Line:	3
Sample Name:	CLO4 ICAL#3@ .5	Location:	Vial 23
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 0.500 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.994	VB	17678.4	0.5424	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.982	VBA	7175.3	0.6483	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.015	MM	128065.6	5.0000	CLO4-89

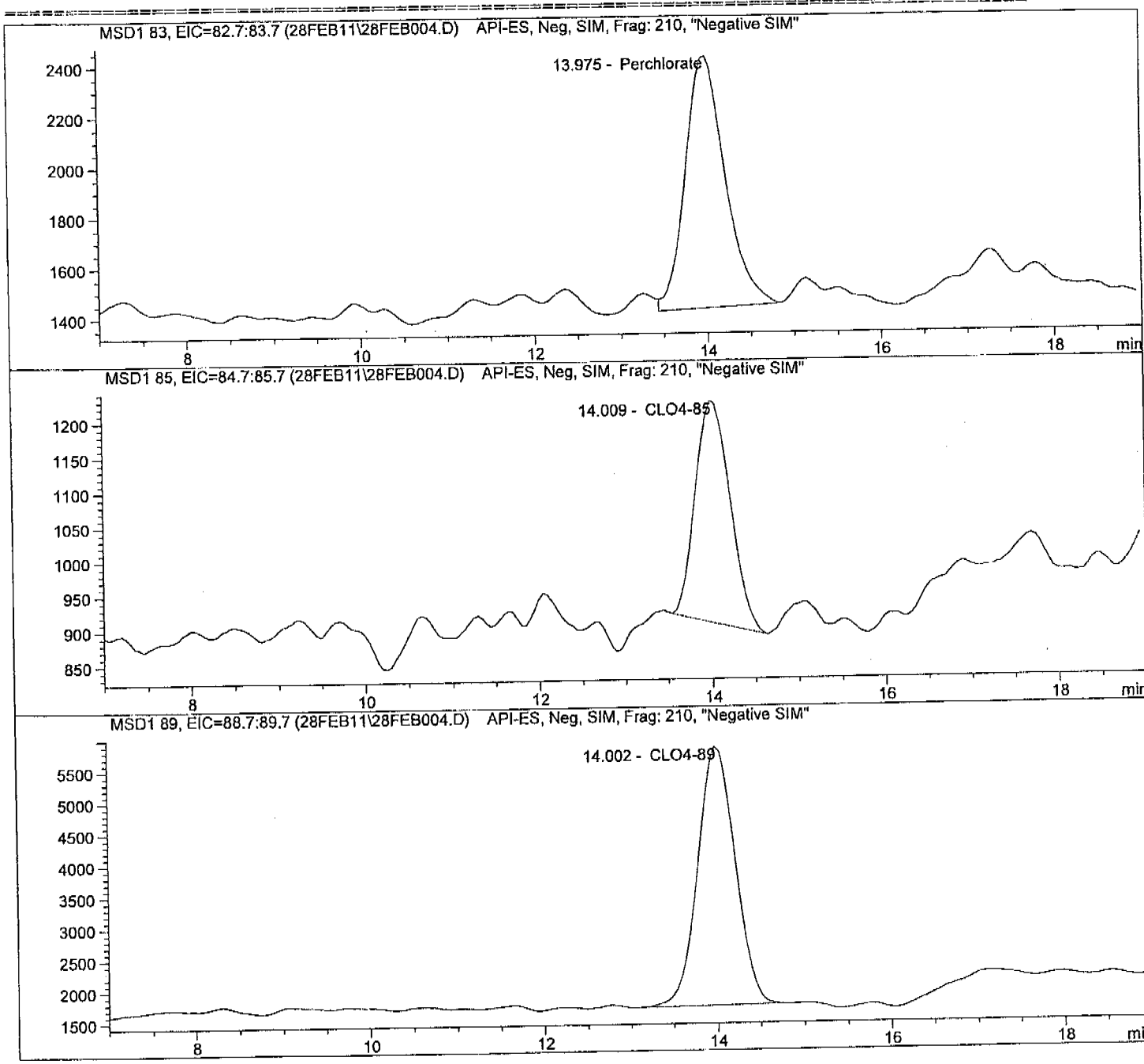
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB004.D Sample Name: CLO4 ICAL#4@ 1.

Injection Date:	2/28/2011 14:46:57	Seq Line:	4
Sample Name:	CLO4 ICAL#4@ 1.	Location:	Vial 24
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 1.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
13.975	FM	31793.8	1.0150	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.009	VB	8889.9	0.8644	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.002	MM	122882.4	5.0000	CLO4-89

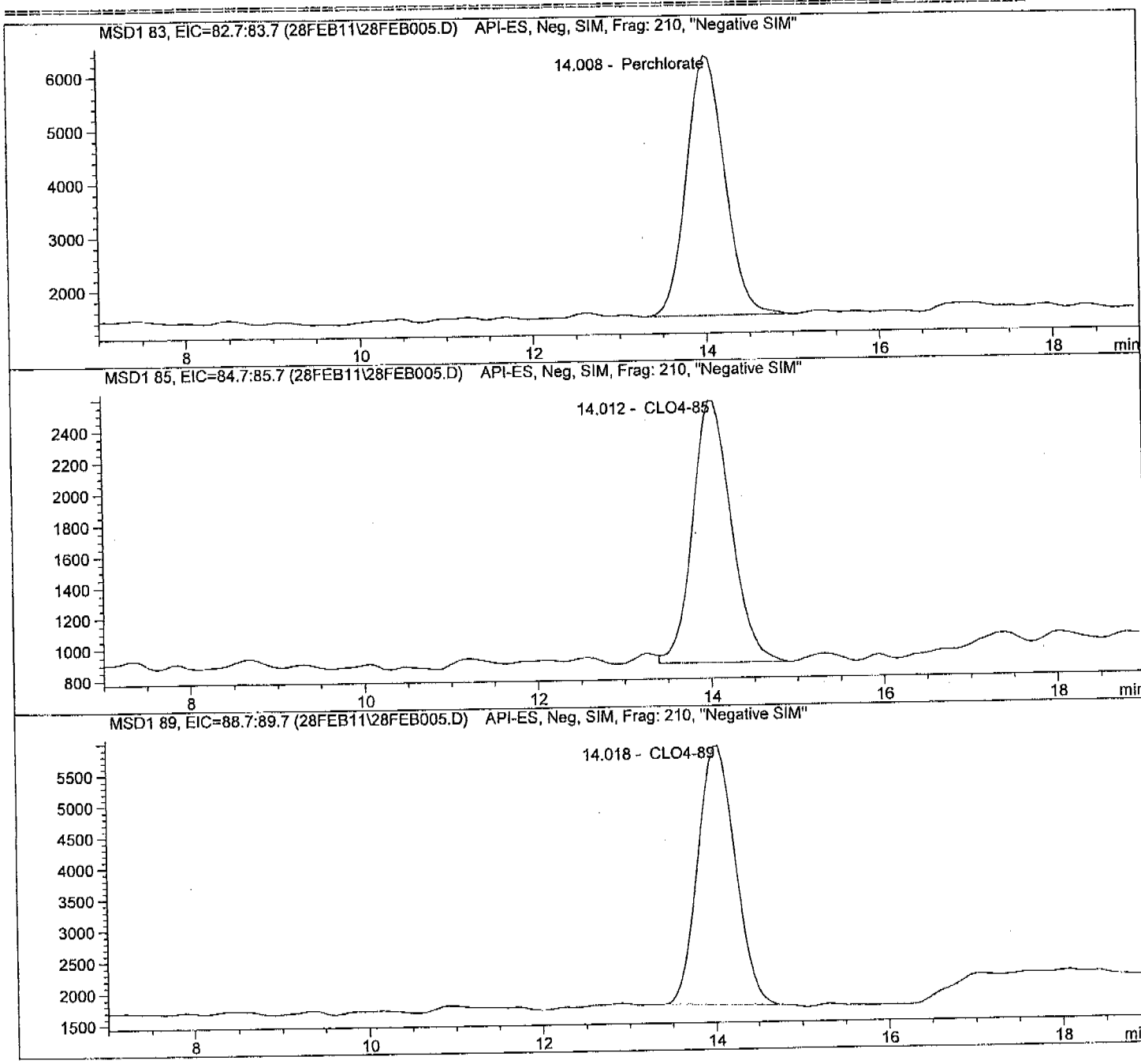
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB005.D Sample Name: CLO4 ICAL#5@ 5.

Injection Date:	2/28/2011 15:07:49	Seq Line:	5
Sample Name:	CLO4 ICAL#5@ 5.	Location:	Vial 25
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 5.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.008	MM	148379.2	4.6574	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.012	FM	51716.0	5.3604	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.018	MM	123453.0	5.0000	CLO4-89

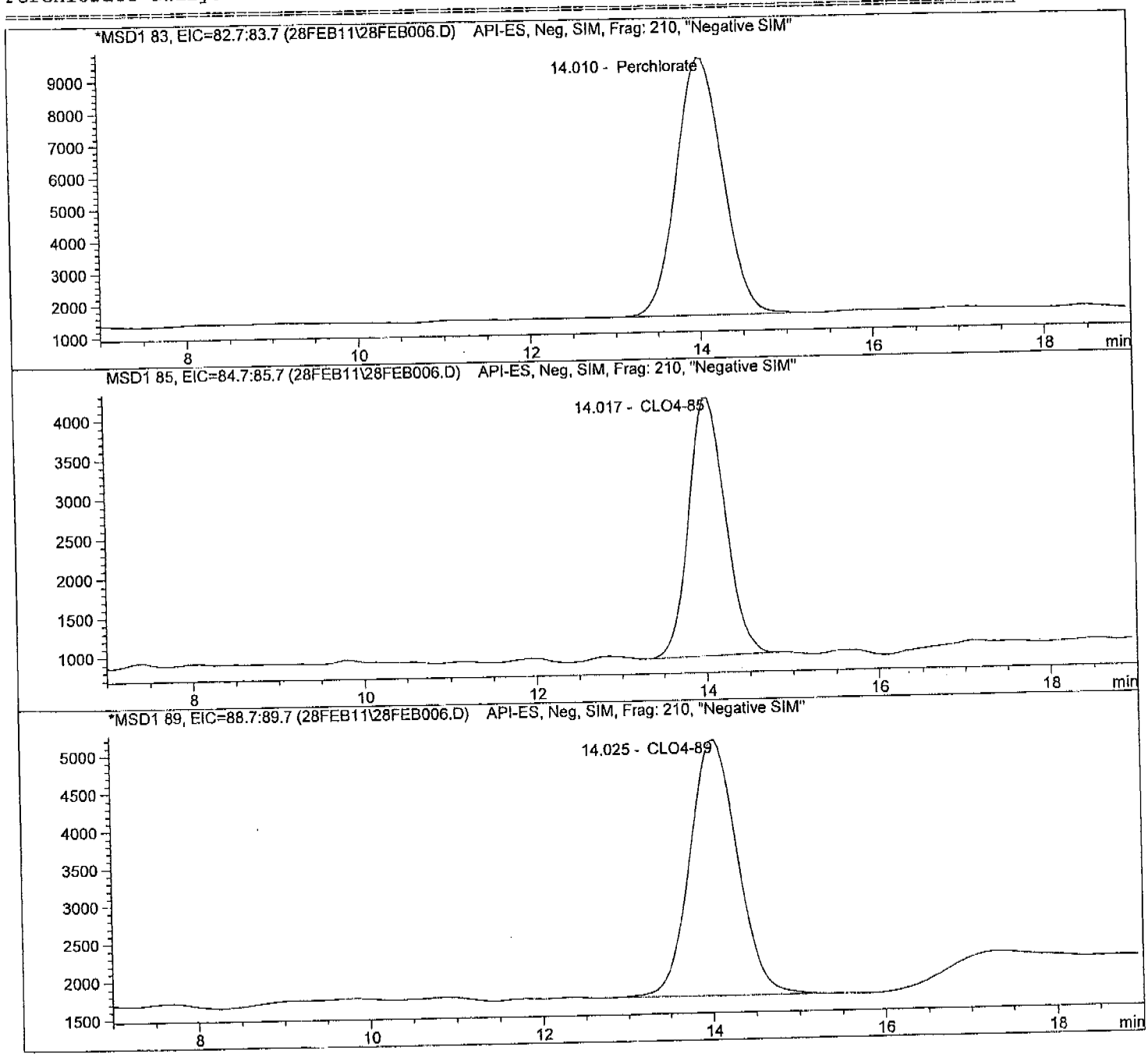
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB006.D Sample Name: CLO4 ICAL#6@ 10

Injection Date:	2/28/2011 15:28:40	Seq Line:	6
Sample Name:	CLO4 ICAL#6@ 10	Location:	Vial 26
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.010	MM	304915.2	8.8941	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.017	VBA	97373.3	9.4184	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.025	MM	130982.7	5.0000	CLO4-89

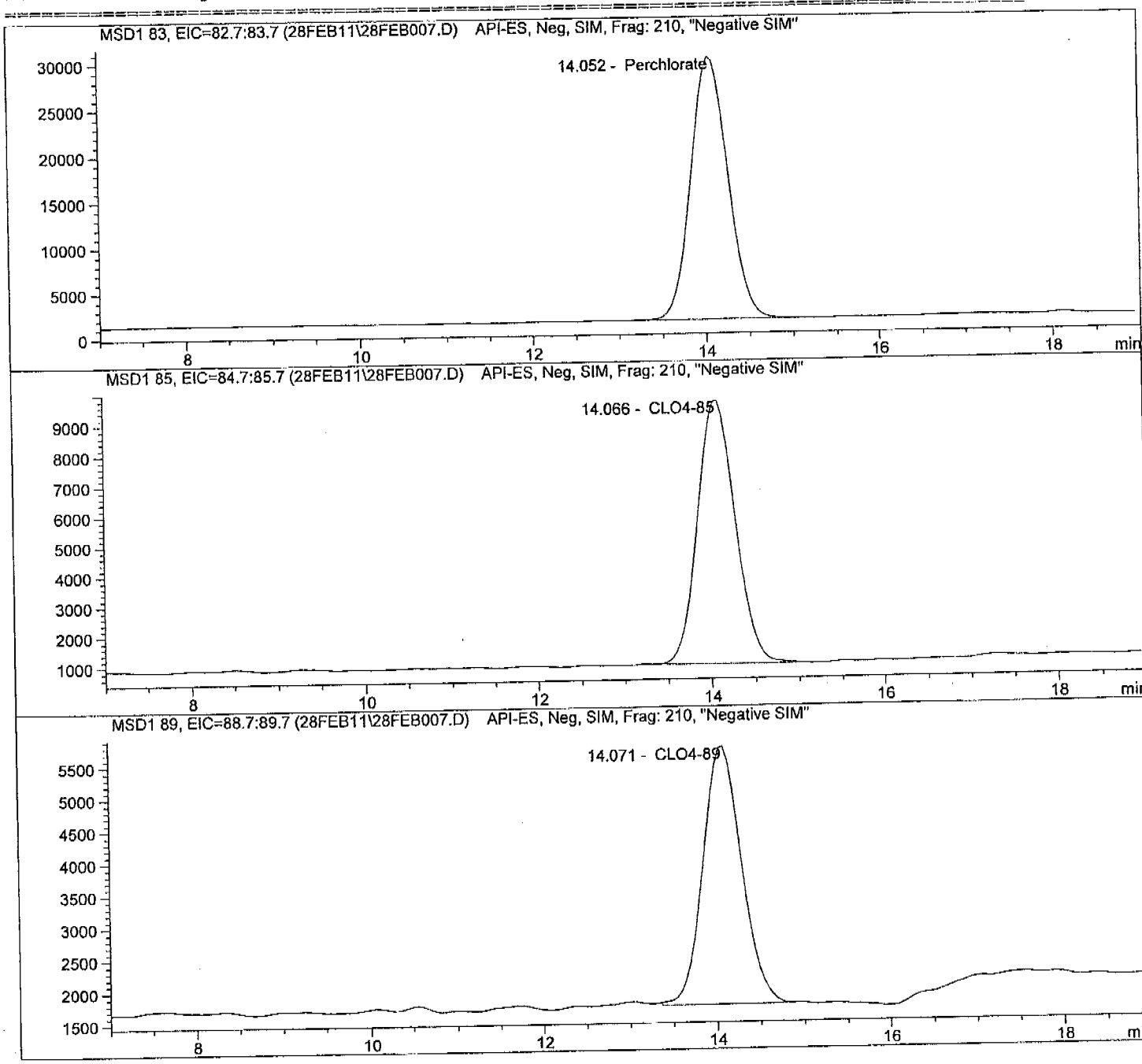
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB007.D Sample Name: CLO4 ICAL#7@ 25

Injection Date:	2/28/2011 15:49:33	Seq Line:	7
Sample Name:	CLO4 ICAL#7@ 25	Location:	Vial 27
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 25.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.052	MM	850482.3	25.1606	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.066	MM	260349.5	25.3498	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.071	BBA	122545.2	5.0000	CLO4-89

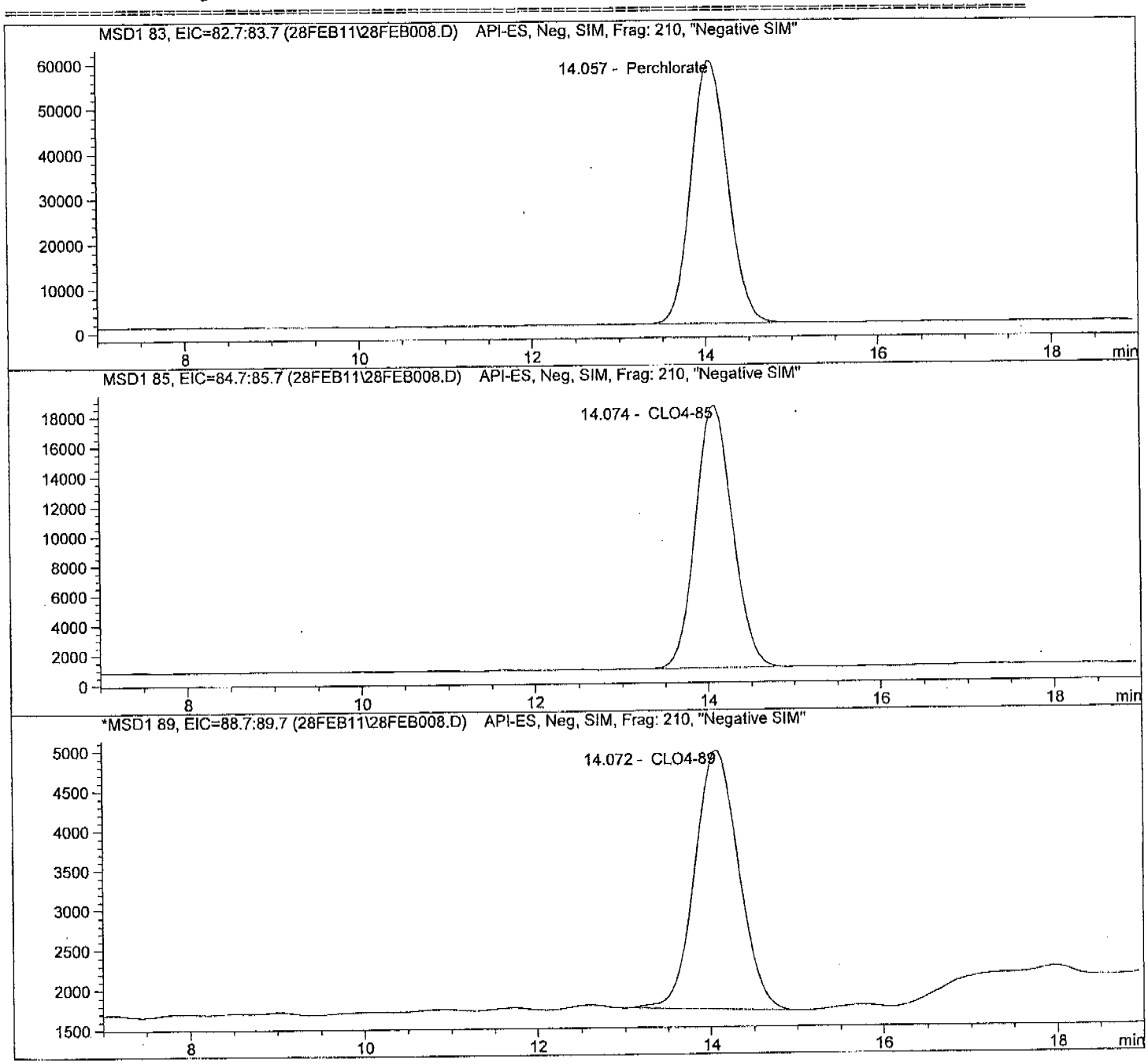
*** End of Report ***

Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis



Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB008.D Sample Name: CLO4 ICAL#8@ 50

Injection Date:	2/28/2011 16:10:24	Seq Line:	8
Sample Name:	CLO4 ICAL#8@ 50	Location:	Vial 28
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 50.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.057	MM	1736680.5	50.9508	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.074	VB	524552.6	49.9143	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.072	VBA	114309.5	5.0000	CLO4-89

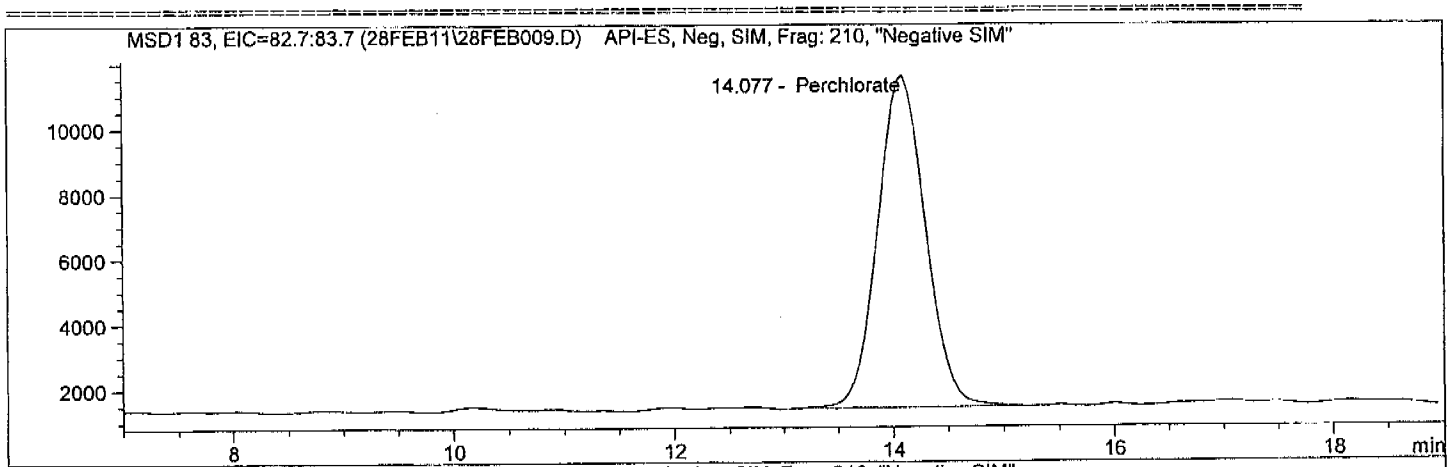
*** End of Report ***

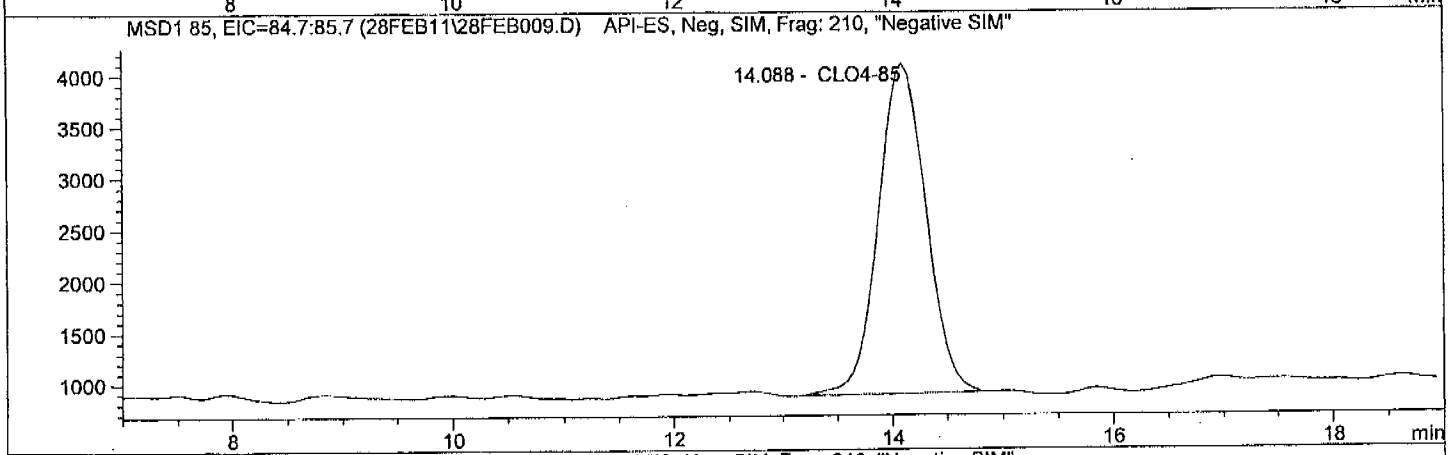
Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

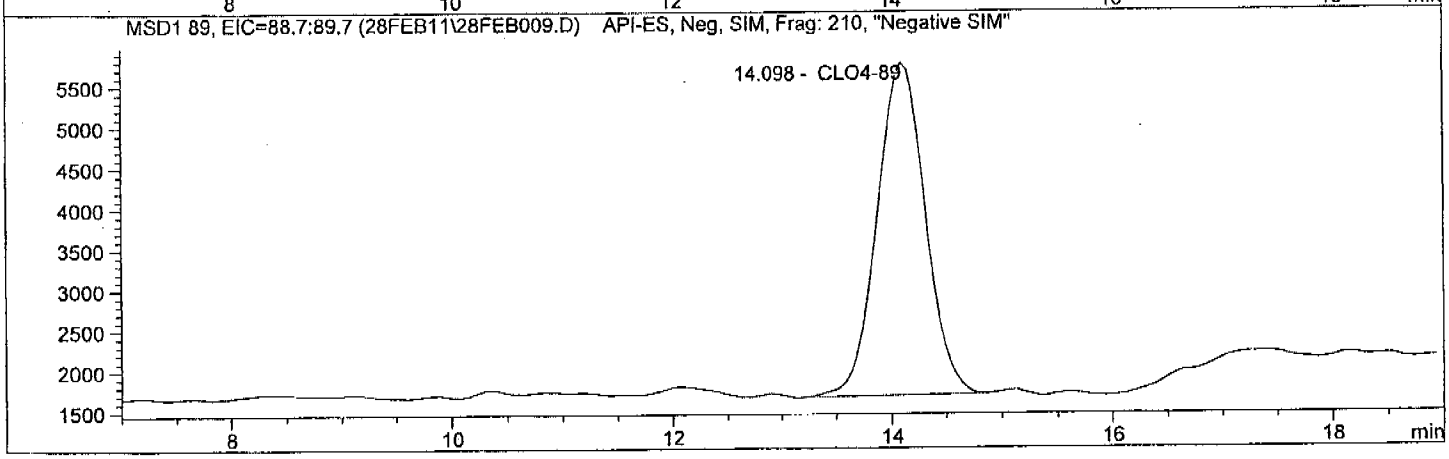
Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis







Data file: C:\HPCHEM\1\DATA\28FEB11\28FEB009.D Sample Name: CLO4 ICV @ 10

Injection Date:	2/28/2011 16:31:16	Seq Line:	9
Sample Name:	CLO4 ICV @ 10	Location:	Vial 29
Acq Operator:	TNB	Inj. No.:	1
		Inj. Vol.:	20 µl

Acq. Method: CLO4-ON.M
Analysis Method: C:\HPCHEM\1\METHODS\CLO4OFF1.M
Last Changed: 3/1/2011 13:47:29

Perchlorate analysis

Sample Information

Sorted By: Signal
Calib. Data Modified: Tue, 1. Mar. 2011, 01:40:13 pm
Multiplier: 1.000000
Dilution: 1.000000
Sample Amount: 10.000 ug/L

LCMS Results

Signal1: MSD1 83, EIC=82.7:83.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.077	MM	307470.9	9.4526	Perchlorate

Signal2: MSD1 85, EIC=84.7:85.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.088	VBA	96492.5	9.8414	CLO4-85

Signal3: MSD1 89, EIC=88.7:89.7

RT [min]	Type	Area	Amount [ug/L]	Compound Name
14.098	MM	124047.5	5.0000	CLO4-89

*** End of Report ***

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 10/14/2011

GCAL Report 211092804

Deliver To	TRINITY Analysis & Development Corp. 1002 N Eglin Pkwy Shalimar, FL 32579 850-613-6800
Attn	Jonathan Kramer

Project Melrose - Semi-Annual

CASE NARRATIVE

Client: TRINITY Analysis & Development Corp. **Report:** 211092804

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

Q- LCS/LCSD recovery and/or RPD was outside control limits/CCV did not meet acceptance criteria.

J - Indicates a positive result was obtained and the sample had a surrogate failure above the upper control limit or the sample had positive results and/or non-detects and had a surrogate recovery below the lower control limit.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 466398, the % Drift is outside ±20% for Chloroethane in the CCV. The recovery is high and this compound was not detected in the associated sample.

In the SW-846 8260B analysis for analytical batch 466441, the % Drift is outside ±20% for n-Butylbenezene in the CCV. The recovery is high and this compound was not detected in the associated sample.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8330 analysis of prep batch 466485, the MSD exhibited a recovery failure. All other batch QC is acceptable.

In the SW-846 8330 analysis, the recovery for the surrogate is below the lower control limit in samples 21109280410 (MWQ 23), 21109280412 (MA01 MW0002), 21110010505 (M114MW002), and 21110010506 (M114MW003). The first two samples were not re-extracted due to expiration of the holding time. The client was notified of the exception. Sample 21110010505 (M114MW002) was re-extracted and re-analyzed with a recovery of 37% (first extract recovery 61%) and sample 21110010506 (M114MW003) was re-extracted and re-analyzed with a recovery of 34% (first extract recovery 67%).

In the SW-846 8330 analysis, the recovery for 2,6-Dinitrotoluene is above the upper control limit in the ICV. This compound was not detected in the associated samples.

METALS

Several dissolved metal concentrations are greater than the total concentration of these analytes in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010C analysis, samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D) and 21109280408 (FD-1) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the SW-846 6010C analysis, a chemical or physical interference necessitated a dilution for sample 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002) and 21110010506 (M114MW003). This is reflected in the elevated detection limits.

In the SW-846 6010C analysis for prep batch 466323, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Calcium, Magnesium, and Sodium because the sample concentration is greater than four times the spike concentration. Sodium was detected in the method blank at a concentration > ½ the RL. The concentration is acceptable at <RL for this common lab contaminant.

In the SW-846 6010C analysis for prep batch 466324, the MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium and Calcium because the sample concentration is greater than four times the spike concentration. The method blank (992256) was re-analyzed for Calcium on ICP6 10/05/11 at 1342. The rerun data is reported on the Form 3 with the data from the original run because only one schedule can be entered in the data system for a method blank. Calcium was detected at concentration greater than the PQL in the method blank. The concentration is less than 10% of the concentration detected in the associated samples.

In the SW-846 6010C analysis for prep batch 466511, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 123% for Arsenic, 109% for Potassium, and 124% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010C analysis for prep batch 466510, the MS and/or MSD recovery is outside the control limits for Arsenic, Selenium, and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 117% for Arsenic, 111% for Potassium, and 117% for Selenium. The MS/MSD recoveries and post-digestion spike recoveries are not applicable for Magnesium, Sodium, and Calcium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A Dissolved and SW-846 7470A analysis for prep batch 466512, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B analysis, Sodium was detected in a CCB (ICP6, 10/04/11 0023) at a concentration > LOD. The concentration is less than 10% of the concentration detected in the associated samples.

pCONVENTIONALS

In the EPA 300.0 analysis, samples 21109280401 (MA01MW001), 21109280402 (MA01MW003), 21109280403 (MA01MW003-MS), 21109280404 (MA01MW003-MSD), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21109280410 (MWQ-23), 21109280411 (MA01-MW004), 21109280412 (MA01-MW002), 21110010501 (M114MW004), 21110010502 (M114MW001), 21110010505 (M114MW002), and 21110010506 (M114MW003) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument.

In the EPA 353.2 analysis, samples 21109280407 (MA02 MW001D), 21109280408 (FD-1)21110010501 (M114MW004) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the EPA 353.2 analysis for analytical batch 466506, the MS/MSD recovery was outside the control limits for Nitrate. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

The Sample/Duplicate RPD for Chromium VI for analytical batch 466230 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

Samples 21109280401 (MA01MW001), 21109280407 (MA02 MW001D), 21109280408 (FD-1), 21110010505 (M114MW002), were received with insufficient time to process the samples in receiving and start the Chromium VI analysis within the 24-hour holding time. Sample 21110010504 (EB-1) was received outside the 24-hour holding time for Chromium VI.

Q Flag Application

Lab Work Order ID: **211092804**

Lab Sample ID: **21109280407**

Analysis Date: **10/2/2011 9:33:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Chloroethane	75-00-3	X				

Lab Sample ID: **21109280408**

Analysis Date: **10/2/2011 9:54:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Chloroethane	75-00-3	X				

Lab Sample ID: **21109280409**

Analysis Date: **10/2/2011 10:15:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
Chloroethane	75-00-3	X				

Lab Sample ID: **21109280410**

Analysis Date: **10/3/2011 1:45:00 PM**

Compound Name	Compound Label	CCV OUL	LCS/LCSD OUL	SURROGATE OUL	ANALYTE NC	IS OUL
n-Butylbenzene	104-51-8	X				

Sample Test Summary Report: 211092804

Lab Sample ID	Cust. Sample ID	Matrix	Proc. Desc.
21109280401	MA01MW001	W	SM 2540C TDS
21109280401	MA01MW001	W	SM 2320B Alkalinity Water
21109280401	MA01MW001	W	EPA 300.0 Inorganic Anions
21109280401	MA01MW001	W	SW-846 6010C
21109280401	MA01MW001	W	SW-846 6010C Dissolved
21109280401	MA01MW001	W	SW-846 6010C Dissolved Prep
21109280401	MA01MW001	W	SW-846 6010C Prep Water
21109280401	MA01MW001	W	SW-846 7196A Chromium VI
21109280401	MA01MW001	W	SW-846 7470A Water
21109280401	MA01MW001	W	SW-846 7470A Prep Water
21109280401	MA01MW001	W	SW-846 7470A Dissolved Prep
21109280401	MA01MW001	W	SW-846 7470A Dissolved
21109280401	MA01MW001	W	SW-846 8260B DOD Water
21109280401	MA01MW001	W	SW-846 8330 Water
21109280401	MA01MW001	W	SW-846 8330 Prep Water
21109280401	MA01MW001	W	SW-846 9012A Cyanide Water
21109280401	MA01MW001	W	SW-846 9012A Cyanide Prep Water
21109280401	MA01MW001	W	EPA 353.2 Nitrite
21109280401	MA01MW001	W	EPA 353.2 Nitrate
21109280401	MA01MW001	W	Ship work pending results
21109280402	MA01MW003	W	SM 2540C TDS
21109280402	MA01MW003	W	SM 2320B Alkalinity Water
21109280402	MA01MW003	W	EPA 300.0 Inorganic Anions
21109280402	MA01MW003	W	SW-846 6010C
21109280402	MA01MW003	W	SW-846 6010C Dissolved
21109280402	MA01MW003	W	SW-846 6010C Dissolved Prep
21109280402	MA01MW003	W	SW-846 6010C Prep Water
21109280402	MA01MW003	W	SW-846 7196A Chromium VI
21109280402	MA01MW003	W	SW-846 7470A Water
21109280402	MA01MW003	W	SW-846 7470A Prep Water
21109280402	MA01MW003	W	SW-846 7470A Dissolved Prep
21109280402	MA01MW003	W	SW-846 7470A Dissolved
21109280402	MA01MW003	W	SW-846 8260B DOD Water
21109280402	MA01MW003	W	SW-846 8330 Water
21109280402	MA01MW003	W	SW-846 8330 Prep Water
21109280402	MA01MW003	W	SW-846 9012A Cyanide Water
21109280402	MA01MW003	W	SW-846 9012A Cyanide Prep Water
21109280402	MA01MW003	W	EPA 353.2 Nitrite
21109280402	MA01MW003	W	EPA 353.2 Nitrate
21109280402	MA01MW003	W	Ship work pending results
21109280403	MA01MW003-MS	W	EPA 300.0 Inorganic Anions
21109280403	MA01MW003-MS	W	SW-846 6010C
21109280403	MA01MW003-MS	W	SW-846 6010C Dissolved
21109280403	MA01MW003-MS	W	SW-846 6010C Dissolved Prep
21109280403	MA01MW003-MS	W	SW-846 6010C Prep Water
21109280403	MA01MW003-MS	W	SW-846 7196A Chromium VI
21109280403	MA01MW003-MS	W	SW-846 7470A Water
21109280403	MA01MW003-MS	W	SW-846 7470A Prep Water

21109280403	MA01MW003-MS	W	SW-846 7470A Dissolved Prep
21109280403	MA01MW003-MS	W	SW-846 7470A Dissolved
21109280403	MA01MW003-MS	W	SW-846 8260B DOD Water
21109280403	MA01MW003-MS	W	SW-846 8330 Water
21109280403	MA01MW003-MS	W	SW-846 8330 Prep Water
21109280403	MA01MW003-MS	W	SW-846 9012A Cyanide Water
21109280403	MA01MW003-MS	W	SW-846 9012A Cyanide Prep Water
21109280403	MA01MW003-MS	W	EPA 353.2 Nitrite
21109280403	MA01MW003-MS	W	EPA 353.2 Nitrate
21109280403	MA01MW003-MS	W	Ship work pending results
21109280404	MA01MW003-MSD	W	EPA 300.0 Inorganic Anions
21109280404	MA01MW003-MSD	W	SW-846 6010C
21109280404	MA01MW003-MSD	W	SW-846 6010C Dissolved
21109280404	MA01MW003-MSD	W	SW-846 6010C Dissolved Prep
21109280404	MA01MW003-MSD	W	SW-846 6010C Prep Water
21109280404	MA01MW003-MSD	W	SW-846 7196A Chromium VI
21109280404	MA01MW003-MSD	W	SW-846 7470A Water
21109280404	MA01MW003-MSD	W	SW-846 7470A Prep Water
21109280404	MA01MW003-MSD	W	SW-846 7470A Dissolved Prep
21109280404	MA01MW003-MSD	W	SW-846 7470A Dissolved
21109280404	MA01MW003-MSD	W	SW-846 8260B DOD Water
21109280404	MA01MW003-MSD	W	SW-846 8330 Water
21109280404	MA01MW003-MSD	W	SW-846 8330 Prep Water
21109280404	MA01MW003-MSD	W	SW-846 9012A Cyanide Water
21109280404	MA01MW003-MSD	W	SW-846 9012A Cyanide Prep Water
21109280404	MA01MW003-MSD	W	EPA 353.2 Nitrite
21109280404	MA01MW003-MSD	W	EPA 353.2 Nitrate
21109280404	MA01MW003-MSD	W	Ship work pending results
21109280405	TB-1	W	SW-846 8260B DOD Water
21109280406	MA01MW003-DUP	W	SM 2540C TDS
21109280406	MA01MW003-DUP	W	SM 2320B Alkalinity Water
21109280407	MA02 MW001D	W	SM 2540C TDS
21109280407	MA02 MW001D	W	SM 2320B Alkalinity Water
21109280407	MA02 MW001D	W	EPA 300.0 Inorganic Anions
21109280407	MA02 MW001D	W	SW-846 6010C
21109280407	MA02 MW001D	W	SW-846 6010C Dissolved
21109280407	MA02 MW001D	W	SW-846 6010C Dissolved Prep
21109280407	MA02 MW001D	W	SW-846 6010C Prep Water
21109280407	MA02 MW001D	W	SW-846 7196A Chromium VI
21109280407	MA02 MW001D	W	SW-846 7470A Water
21109280407	MA02 MW001D	W	SW-846 7470A Prep Water
21109280407	MA02 MW001D	W	SW-846 7470A Dissolved Prep
21109280407	MA02 MW001D	W	SW-846 7470A Dissolved
21109280407	MA02 MW001D	W	SW-846 8260B DOD Water
21109280407	MA02 MW001D	W	SW-846 8330 Water
21109280407	MA02 MW001D	W	SW-846 8330 Prep Water
21109280407	MA02 MW001D	W	SW-846 9012A Cyanide Water
21109280407	MA02 MW001D	W	SW-846 9012A Cyanide Prep Water
21109280407	MA02 MW001D	W	EPA 353.2 Nitrite
21109280407	MA02 MW001D	W	EPA 353.2 Nitrate
21109280407	MA02 MW001D	W	Ship work pending results
21109280408	FD-1	W	SM 2540C TDS

21109280408	FD-1	W	SM 2320B Alkalinity Water
21109280408	FD-1	W	EPA 300.0 Inorganic Anions
21109280408	FD-1	W	SW-846 6010C
21109280408	FD-1	W	SW-846 6010C Dissolved
21109280408	FD-1	W	SW-846 6010C Dissolved Prep
21109280408	FD-1	W	SW-846 6010C Prep Water
21109280408	FD-1	W	SW-846 7196A Chromium VI
21109280408	FD-1	W	SW-846 7470A Water
21109280408	FD-1	W	SW-846 7470A Prep Water
21109280408	FD-1	W	SW-846 7470A Dissolved Prep
21109280408	FD-1	W	SW-846 7470A Dissolved
21109280408	FD-1	W	SW-846 8260B DOD Water
21109280408	FD-1	W	SW-846 8330 Water
21109280408	FD-1	W	SW-846 8330 Prep Water
21109280408	FD-1	W	SW-846 9012A Cyanide Water
21109280408	FD-1	W	SW-846 9012A Cyanide Prep Water
21109280408	FD-1	W	EPA 353.2 Nitrite
21109280408	FD-1	W	EPA 353.2 Nitrate
21109280408	FD-1	W	Ship work pending results
21109280409	TB-2	W	SW-846 8260B DOD Water
21109280410	MWQ-23	W	SM 2540C TDS
21109280410	MWQ-23	W	SM 2320B Alkalinity Water
21109280410	MWQ-23	W	EPA 300.0 Inorganic Anions
21109280410	MWQ-23	W	SW-846 6010C
21109280410	MWQ-23	W	SW-846 6010C Dissolved
21109280410	MWQ-23	W	SW-846 6010C Dissolved Prep
21109280410	MWQ-23	W	SW-846 6010C Prep Water
21109280410	MWQ-23	W	SW-846 7196A Chromium VI
21109280410	MWQ-23	W	SW-846 7470A Water
21109280410	MWQ-23	W	SW-846 7470A Prep Water
21109280410	MWQ-23	W	SW-846 7470A Dissolved Prep
21109280410	MWQ-23	W	SW-846 7470A Dissolved
21109280410	MWQ-23	W	SW-846 8260B DOD Water
21109280410	MWQ-23	W	SW-846 8330 Water
21109280410	MWQ-23	W	SW-846 8330 Prep Water
21109280410	MWQ-23	W	SW-846 9012A Cyanide Water
21109280410	MWQ-23	W	SW-846 9012A Cyanide Prep Water
21109280410	MWQ-23	W	EPA 353.2 Nitrite
21109280410	MWQ-23	W	EPA 353.2 Nitrate
21109280410	MWQ-23	W	Ship work pending results
21109280411	MA01-MW004	W	SM 2540C TDS
21109280411	MA01-MW004	W	SM 2320B Alkalinity Water
21109280411	MA01-MW004	W	EPA 300.0 Inorganic Anions
21109280411	MA01-MW004	W	SW-846 6010C
21109280411	MA01-MW004	W	SW-846 6010C Dissolved
21109280411	MA01-MW004	W	SW-846 6010C Dissolved Prep
21109280411	MA01-MW004	W	SW-846 6010C Prep Water
21109280411	MA01-MW004	W	SW-846 7196A Chromium VI
21109280411	MA01-MW004	W	SW-846 7470A Water
21109280411	MA01-MW004	W	SW-846 7470A Prep Water
21109280411	MA01-MW004	W	SW-846 7470A Dissolved Prep
21109280411	MA01-MW004	W	SW-846 7470A Dissolved

21109280411	MA01-MW004	W	SW-846 8260B DOD Water
21109280411	MA01-MW004	W	SW-846 8330 Water
21109280411	MA01-MW004	W	SW-846 8330 Prep Water
21109280411	MA01-MW004	W	SW-846 9012A Cyanide Water
21109280411	MA01-MW004	W	SW-846 9012A Cyanide Prep Water
21109280411	MA01-MW004	W	EPA 353.2 Nitrite
21109280411	MA01-MW004	W	EPA 353.2 Nitrate
21109280411	MA01-MW004	W	Ship work pending results
21109280412	MA01-MW002	W	SM 2540C TDS
21109280412	MA01-MW002	W	SM 2320B Alkalinity Water
21109280412	MA01-MW002	W	EPA 300.0 Inorganic Anions
21109280412	MA01-MW002	W	SW-846 6010C
21109280412	MA01-MW002	W	SW-846 6010C Dissolved
21109280412	MA01-MW002	W	SW-846 6010C Dissolved Prep
21109280412	MA01-MW002	W	SW-846 6010C Prep Water
21109280412	MA01-MW002	W	SW-846 7196A Chromium VI
21109280412	MA01-MW002	W	SW-846 7470A Water
21109280412	MA01-MW002	W	SW-846 7470A Prep Water
21109280412	MA01-MW002	W	SW-846 7470A Dissolved Prep
21109280412	MA01-MW002	W	SW-846 7470A Dissolved
21109280412	MA01-MW002	W	SW-846 8260B DOD Water
21109280412	MA01-MW002	W	SW-846 8330 Water
21109280412	MA01-MW002	W	SW-846 8330 Prep Water
21109280412	MA01-MW002	W	SW-846 9012A Cyanide Water
21109280412	MA01-MW002	W	SW-846 9012A Cyanide Prep Water
21109280412	MA01-MW002	W	EPA 353.2 Nitrite
21109280412	MA01-MW002	W	EPA 353.2 Nitrate
21109280412	MA01-MW002	W	Ship work pending results
21109280413	TB-4	W	SW-846 8260B DOD Water
21110010501	M114MW004	W	SM 2540C TDS
21110010501	M114MW004	W	SM 2320B Alkalinity Water
21110010501	M114MW004	W	EPA 300.0 Inorganic Anions
21110010501	M114MW004	W	SW-846 6010C
21110010501	M114MW004	W	SW-846 6010C Dissolved
21110010501	M114MW004	W	SW-846 6010C Dissolved Prep
21110010501	M114MW004	W	SW-846 6010C Prep Water
21110010501	M114MW004	W	SW-846 7196A Chromium VI
21110010501	M114MW004	W	SW-846 7470A Water
21110010501	M114MW004	W	SW-846 7470A Prep Water
21110010501	M114MW004	W	SW-846 7470A Dissolved Prep
21110010501	M114MW004	W	SW-846 7470A Dissolved
21110010501	M114MW004	W	SW-846 8260B DOD Water
21110010501	M114MW004	W	SW-846 8330 Water
21110010501	M114MW004	W	SW-846 8330 Prep Water
21110010501	M114MW004	W	SW-846 9012A Cyanide Water
21110010501	M114MW004	W	SW-846 9012A Cyanide Prep Water
21110010501	M114MW004	W	EPA 353.2 Nitrite
21110010501	M114MW004	W	EPA 353.2 Nitrate
21110010501	M114MW004	W	Ship work pending results
21110010502	M114MW001	W	SM 2540C TDS
21110010502	M114MW001	W	SM 2320B Alkalinity Water
21110010502	M114MW001	W	EPA 300.0 Inorganic Anions

21110010502	M114MW001	W	SW-846 6010C
21110010502	M114MW001	W	SW-846 6010C Dissolved
21110010502	M114MW001	W	SW-846 6010C Dissolved Prep
21110010502	M114MW001	W	SW-846 6010C Prep Water
21110010502	M114MW001	W	SW-846 7196A Chromium VI
21110010502	M114MW001	W	SW-846 7470A Water
21110010502	M114MW001	W	SW-846 7470A Prep Water
21110010502	M114MW001	W	SW-846 7470A Dissolved Prep
21110010502	M114MW001	W	SW-846 7470A Dissolved
21110010502	M114MW001	W	SW-846 8260B DOD Water
21110010502	M114MW001	W	SW-846 8330 Water
21110010502	M114MW001	W	SW-846 8330 Prep Water
21110010502	M114MW001	W	SW-846 9012A Cyanide Water
21110010502	M114MW001	W	SW-846 9012A Cyanide Prep Water
21110010502	M114MW001	W	EPA 353.2 Nitrite
21110010502	M114MW001	W	EPA 353.2 Nitrate
21110010502	M114MW001	W	Ship work pending results
21110010503	TB-5	W	SW-846 8260B DOD Water
21110010504	EB-1	W	SM 2540C TDS
21110010504	EB-1	W	SM 2320B Alkalinity Water
21110010504	EB-1	W	EPA 300.0 Inorganic Anions
21110010504	EB-1	W	SW-846 6010C
21110010504	EB-1	W	SW-846 6010C Dissolved
21110010504	EB-1	W	SW-846 6010C Dissolved Prep
21110010504	EB-1	W	SW-846 6010C Prep Water
21110010504	EB-1	W	SW-846 7196A Chromium VI
21110010504	EB-1	W	SW-846 7470A Water
21110010504	EB-1	W	SW-846 7470A Prep Water
21110010504	EB-1	W	SW-846 7470A Dissolved Prep
21110010504	EB-1	W	SW-846 7470A Dissolved
21110010504	EB-1	W	SW-846 8260B DOD Water
21110010504	EB-1	W	SW-846 8330 Water
21110010504	EB-1	W	SW-846 8330 Prep Water
21110010504	EB-1	W	SW-846 9012A Cyanide Water
21110010504	EB-1	W	SW-846 9012A Cyanide Prep Water
21110010504	EB-1	W	EPA 353.2 Nitrite
21110010504	EB-1	W	EPA 353.2 Nitrate
21110010504	EB-1	W	Ship work pending results
21110010505	M114MW002	W	SM 2540C TDS
21110010505	M114MW002	W	SM 2320B Alkalinity Water
21110010505	M114MW002	W	EPA 300.0 Inorganic Anions
21110010505	M114MW002	W	SW-846 6010C
21110010505	M114MW002	W	SW-846 6010C Dissolved
21110010505	M114MW002	W	SW-846 6010C Dissolved Prep
21110010505	M114MW002	W	SW-846 6010C Prep Water
21110010505	M114MW002	W	SW-846 7196A Chromium VI
21110010505	M114MW002	W	SW-846 7470A Water
21110010505	M114MW002	W	SW-846 7470A Prep Water
21110010505	M114MW002	W	SW-846 7470A Dissolved Prep
21110010505	M114MW002	W	SW-846 7470A Dissolved
21110010505	M114MW002	W	SW-846 8260B DOD Water
21110010505	M114MW002	W	SW-846 8330 Water

21110010505	M114MW002	W	SW-846 8330 Prep Water	
21110010505	M114MW002	W	SW-846 9012A Cyanide Water	
21110010505	M114MW002	W	SW-846 9012A Cyanide Prep Water	
21110010505	M114MW002	W	EPA 353.2 Nitrite	
21110010505	M114MW002	W	EPA 353.2 Nitrate	
21110010505	M114MW002	W	Ship work pending results	
21110010506	M114MW003	W	SM 2540C TDS	
21110010506	M114MW003	W	SM 2320B Alkalinity Water	
21110010506	M114MW003	W	EPA 300.0 Inorganic Anions	
21110010506	M114MW003	W	SW-846 6010C	
21110010506	M114MW003	W	SW-846 6010C Dissolved	
21110010506	M114MW003	W	SW-846 6010C Dissolved Prep	
21110010506	M114MW003	W	SW-846 6010C Prep Water	
21110010506	M114MW003	W	SW-846 7196A Chromium VI	
21110010506	M114MW003	W	SW-846 7470A Water	
21110010506	M114MW003	W	SW-846 7470A Prep Water	
21110010506	M114MW003	W	SW-846 7470A Dissolved Prep	
21110010506	M114MW003	W	SW-846 7470A Dissolved	
21110010506	M114MW003	W	SW-846 8260B DOD Water	
21110010506	M114MW003	W	SW-846 8330 Water	
21110010506	M114MW003	W	SW-846 8330 Prep Water	
21110010506	M114MW003	W	SW-846 9012A Cyanide Water	
21110010506	M114MW003	W	SW-846 9012A Cyanide Prep Water	
21110010506	M114MW003	W	EPA 353.2 Nitrite	
21110010506	M114MW003	W	EPA 353.2 Nitrate	
21110010506	M114MW003	W	Ship work pending results	
21110010507	TB-6	W	SW-846 8260B DOD Water	

Manual Integrations

Manual Integrations: 211092804

Lab Sample ID	Cust. Sample ID	Prod. Desc.	Compound	Comp. Name
21109280403	MA01MW003-MS	SW-846 8260B	108-86-1	Bromobenzene
21109280403	MA01MW003-MS	SW-846 8260B	56-23-5	Carbon tetrachloride
21109280403	MA01MW003-MS	SW-846 8330	88-72-2	2-Nitrotoluene
21109280404	MA01MW003-MSD	SW-846 8260B	56-23-5	Carbon tetrachloride
21109280404	MA01MW003-MSD	SW-846 8330	88-72-2	2-Nitrotoluene
21109280410	MWQ-23	SW-846 8330	528-29-0	1,2-Dinitrobenzene
21109280411	MA01-MW004	SW-846 8330	528-29-0	1,2-Dinitrobenzene
21109280412	MA01-MW002	SW-846 8330	528-29-0	1,2-Dinitrobenzene
21110010502	M114MW001	SW-846 8260B	75-09-2	Methylene chloride
21110010505	M114MW002	SW-846 8330	528-29-0	1,2-Dinitrobenzene
21110010506	M114MW003	SW-846 8330	528-29-0	1,2-Dinitrobenzene

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 211092804

THIS REPORT CONTAINS 677 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10
21109280405	TB-1	Water	09/27/2011 16:33	09/28/2011 09:10
21109280406	MA01MW003-DUP	Water	09/27/2011 12:21	09/28/2011 09:10
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15
21109280409	TB-2	Water	09/28/2011 10:28	09/29/2011 09:15
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15
21109280413	TB-4	Water	09/29/2011 08:40	09/30/2011 09:15
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00
21110010503	TB-5	Water	09/30/2011 10:00	10/01/2011 09:00
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00
21110010507	TB-6	Water	10/03/2011 08:00	10/04/2011 09:00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21109280401

Level: (low/med) Lab File ID: 2111002p/c7814

% Moisture: not dec. Date Collected: 09/27/11 Time: 0933

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 09/28/11

Instrument ID: MSV7 Date Analyzed: 10/02/11 Time: 2106

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: SLR

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280401

Lab File ID: 2111002p/c7814

Date Collected: 09/27/11 Time: 0933

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2106

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21109280401

Level: (low/med) Lab File ID: 2111002p/c7814

% Moisture: not dec. Date Collected: 09/27/11 Time: 0933

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 09/28/11

Instrument ID: MSV7 Date Analyzed: 10/02/11 Time: 2106

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: SLR

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280402

Lab File ID: 2111002p/c7813

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2045

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280402

Lab File ID: 2111002p/c7813

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2045

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

211092804 1S

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280402

Lab File ID: 2111002p/c7813

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2045

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280403

Lab File ID: 2111002p/c7815ms

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2127

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	52.9		0.150	1.00
71-55-6	1,1,1-Trichloroethane	52.8		0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	52.4		0.112	1.00
79-00-5	1,1,2-Trichloroethane	51.8		0.179	1.00
75-34-3	1,1-Dichloroethane	51.0		0.064	1.00
75-35-4	1,1-Dichloroethene	50.8		0.183	1.00
563-58-6	1,1-Dichloropropene	55.1		0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	52.0		0.107	1.00
96-18-4	1,2,3-Trichloropropane	52.2		0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	53.6		0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	52.5		0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	49.8		0.082	1.00
106-93-4	1,2-Dibromoethane	53.2		0.169	1.00
95-50-1	1,2-Dichlorobenzene	51.6		0.086	1.00
107-06-2	1,2-Dichloroethane	52.3		0.121	1.00
78-87-5	1,2-Dichloropropane	52.7		0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	56.6		0.053	1.00
541-73-1	1,3-Dichlorobenzene	50.6		0.080	1.00
142-28-9	1,3-Dichloropropane	52.3		0.113	1.00
106-46-7	1,4-Dichlorobenzene	50.2		0.058	1.00
594-20-7	2,2-Dichloropropane	53.9		0.112	1.00
78-93-3	2-Butanone	41.3		0.235	5.00
95-49-8	2-Chlorotoluene	53.5		0.090	1.00
591-78-6	2-Hexanone	43.7		0.302	5.00
106-43-4	4-Chlorotoluene	54.0		0.046	1.00
99-87-6	4-Isopropyltoluene	51.1		0.175	1.00
108-10-1	4-Methyl-2-pentanone	57.1		0.142	5.00
67-64-1	Acetone	28.9		0.322	5.00
71-43-2	Benzene	52.3		0.049	1.00
108-86-1	Bromobenzene	49.8		0.095	1.00
74-97-5	Bromochloromethane	53.3		0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280403

Lab File ID: 2111002p/c7815ms

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2127

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	54.2		0.071	1.00
75-25-2	Bromoform	58.4		0.278	1.00
74-83-9	Bromomethane	47.4		0.276	1.00
75-15-0	Carbon disulfide	51.6		0.190	1.00
56-23-5	Carbon tetrachloride	53.2		0.056	1.00
108-90-7	Chlorobenzene	49.3		0.055	1.00
75-00-3	Chloroethane	58.6		0.279	1.00
67-66-3	Chloroform	49.1		0.062	1.00
74-87-3	Chloromethane	53.1		0.076	1.00
74-95-3	Dibromomethane	54.2		0.197	1.00
75-71-8	Dichlorodifluoromethane	49.0		0.088	1.00
100-41-4	Ethylbenzene	53.5		0.180	1.00
87-68-3	Hexachlorobutadiene	49.0		0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	51.2		0.058	1.00
75-09-2	Methylene chloride	54.8		0.102	5.00
91-20-3	Naphthalene	48.5		0.175	1.00
100-42-5	Styrene	51.3		0.058	1.00
127-18-4	Tetrachloroethene	49.6		0.141	1.00
108-88-3	Toluene	49.3		0.078	1.00
79-01-6	Trichloroethene	51.5		0.094	1.00
75-69-4	Trichlorofluoromethane	50.7		0.094	1.00
75-01-4	Vinyl chloride	50.1		0.104	1.00
156-59-2	cis-1,2-Dichloroethene	53.4		0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	55.0		0.105	1.00
136777-61-	m,p-Xylene	104		0.099	2.00
104-51-8	n-Butylbenzene	55.6		0.068	1.00
103-65-1	n-Propylbenzene	53.5		0.069	1.00
95-47-6	o-Xylene	51.9		0.077	1.00
135-98-8	sec-Butylbenzene	54.1		0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	53.2		0.084	5.00
98-06-6	tert-Butylbenzene	57.4		0.058	1.00
156-60-5	trans-1,2-Dichloroethene	50.9		0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280403

Lab File ID: 2111002p/c7815ms

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2127

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	58.7		0.068	1.00

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280404

Lab File ID: 2111002p/c7816msd

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2148

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	51.8		0.150	1.00
71-55-6	1,1,1-Trichloroethane	50.5		0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	51.9		0.112	1.00
79-00-5	1,1,2-Trichloroethane	51.7		0.179	1.00
75-34-3	1,1-Dichloroethane	49.0		0.064	1.00
75-35-4	1,1-Dichloroethene	49.0		0.183	1.00
563-58-6	1,1-Dichloropropene	52.3		0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	52.5		0.107	1.00
96-18-4	1,2,3-Trichloropropane	50.7		0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	54.5		0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	51.7		0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	48.4		0.082	1.00
106-93-4	1,2-Dibromoethane	53.2		0.169	1.00
95-50-1	1,2-Dichlorobenzene	51.0		0.086	1.00
107-06-2	1,2-Dichloroethane	49.6		0.121	1.00
78-87-5	1,2-Dichloropropane	51.4		0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	55.6		0.053	1.00
541-73-1	1,3-Dichlorobenzene	50.1		0.080	1.00
142-28-9	1,3-Dichloropropane	52.3		0.113	1.00
106-46-7	1,4-Dichlorobenzene	48.9		0.058	1.00
594-20-7	2,2-Dichloropropane	50.6		0.112	1.00
78-93-3	2-Butanone	40.4		0.235	5.00
95-49-8	2-Chlorotoluene	53.7		0.090	1.00
591-78-6	2-Hexanone	44.0		0.302	5.00
106-43-4	4-Chlorotoluene	52.8		0.046	1.00
99-87-6	4-Isopropyltoluene	50.1		0.175	1.00
108-10-1	4-Methyl-2-pentanone	54.2		0.142	5.00
67-64-1	Acetone	27.8		0.322	5.00
71-43-2	Benzene	49.9		0.049	1.00
108-86-1	Bromobenzene	49.5		0.095	1.00
74-97-5	Bromochloromethane	51.2		0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280404

Lab File ID: 2111002p/c7816msd

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2148

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	51.3		0.071	1.00
75-25-2	Bromoform	57.0		0.278	1.00
74-83-9	Bromomethane	47.1		0.276	1.00
75-15-0	Carbon disulfide	49.3		0.190	1.00
56-23-5	Carbon tetrachloride	49.1		0.056	1.00
108-90-7	Chlorobenzene	49.3		0.055	1.00
75-00-3	Chloroethane	56.5		0.279	1.00
67-66-3	Chloroform	46.6		0.062	1.00
74-87-3	Chloromethane	50.3		0.076	1.00
74-95-3	Dibromomethane	51.2		0.197	1.00
75-71-8	Dichlorodifluoromethane	46.4		0.088	1.00
100-41-4	Ethylbenzene	52.5		0.180	1.00
87-68-3	Hexachlorobutadiene	48.9		0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	49.9		0.058	1.00
75-09-2	Methylene chloride	51.8		0.102	5.00
91-20-3	Naphthalene	49.1		0.175	1.00
100-42-5	Styrene	50.4		0.058	1.00
127-18-4	Tetrachloroethene	49.4		0.141	1.00
108-88-3	Toluene	49.1		0.078	1.00
79-01-6	Trichloroethene	49.3		0.094	1.00
75-69-4	Trichlorofluoromethane	47.2		0.094	1.00
75-01-4	Vinyl chloride	48.1		0.104	1.00
156-59-2	cis-1,2-Dichloroethene	50.6		0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	53.6		0.105	1.00
136777-61-	m,p-Xylene	102		0.099	2.00
104-51-8	n-Butylbenzene	54.0		0.068	1.00
103-65-1	n-Propylbenzene	52.5		0.069	1.00
95-47-6	o-Xylene	50.6		0.077	1.00
135-98-8	sec-Butylbenzene	53.4		0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	50.8		0.084	5.00
98-06-6	tert-Butylbenzene	55.7		0.058	1.00
156-60-5	trans-1,2-Dichloroethene	48.1		0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01MW003-MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280404

Lab File ID: 2111002p/c7816msd

Date Collected: 09/27/11 Time: 1221

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2148

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	55.3		0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280405

Lab File ID: 2111002p/c7818

Date Collected: 09/27/11 Time: 1633

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2230

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280405

Lab File ID: 2111002p/c7818

Date Collected: 09/27/11 Time: 1633

Date Received: 09/28/11

Date Analyzed: 10/02/11 Time: 2230

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 21109280405

Level: (low/med)

Lab File ID: 2111002p/c7818

% Moisture: not dec.

Date Collected: 09/27/11 Time: 1633

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received: 09/28/11

Instrument ID: MSV7

Date Analyzed: 10/02/11 Time: 2230

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: SLR

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02 MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280407

Lab File ID: 2111002/h2090

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2133

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02 MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21109280407

Level: (low/med) Lab File ID: 2111002/h2090

% Moisture: not dec. Date Collected: 09/28/11 Time: 1028

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 09/29/11

Instrument ID: MSV12 Date Analyzed: 10/02/11 Time: 2133

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: EDS

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	UQ	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA02 MW001D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280407

Lab File ID: 2111002/h2090

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2133

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FD-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280408

Lab File ID: 2111002/h2091

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2154

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FD-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280408

Lab File ID: 2111002/h2091

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2154

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	UQ	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FD-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280408

Lab File ID: 2111002/h2091

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2154

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280409

Lab File ID: 2111002/h2092

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2215

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 21109280409

Level: (low/med)

Lab File ID: 2111002/h2092

% Moisture: not dec.

Date Collected: 09/28/11 Time: 1028

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received: 09/29/11

Instrument ID: MSV12

Date Analyzed: 10/02/11 Time: 2215

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: EDS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	UQ	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

211092804 ST

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-2

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280409

Lab File ID: 2111002/h2092

Date Collected: 09/28/11 Time: 1028

Date Received: 09/29/11

Date Analyzed: 10/02/11 Time: 2215

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWQ-23

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280410

Lab File ID: 2111003/c7839

Date Collected: 09/29/11 Time: 0840

Date Received: 09/30/11

Date Analyzed: 10/03/11 Time: 1345

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWQ-23

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21109280410

Level: (low/med) Lab File ID: 2111003/c7839

% Moisture: not dec. Date Collected: 09/29/11 Time: 0840

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 09/30/11

Instrument ID: MSV7 Date Analyzed: 10/03/11 Time: 1345

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: SLR

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	UQ	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWQ-23

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280410

Lab File ID: 2111003/c7839

Date Collected: 09/29/11 Time: 0840

Date Received: 09/30/11

Date Analyzed: 10/03/11 Time: 1345

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280411

Lab File ID: 2111002p/c7819

Date Collected: 09/29/11 Time: 1110

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2251

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280411

Lab File ID: 2111002p/c7819

Date Collected: 09/29/11 Time: 1110

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2251

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280411

Lab File ID: 2111002p/c7819

Date Collected: 09/29/11 Time: 1110

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2251

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280412

Lab File ID: 2111002p/c7820

Date Collected: 09/29/11 Time: 1306

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2312

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21109280412

Level: (low/med) Lab File ID: 2111002p/c7820

% Moisture: not dec. Date Collected: 09/29/11 Time: 1306

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 09/30/11

Instrument ID: MSV7 Date Analyzed: 10/02/11 Time: 2312

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: SLR

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MA01-MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280412

Lab File ID: 2111002p/c7820

Date Collected: 09/29/11 Time: 1306

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2312

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280413

Lab File ID: 2111002p/c7821

Date Collected: 09/29/11 Time: 0840

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2332

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.322	U	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280413

Lab File ID: 2111002p/c7821

Date Collected: 09/29/11 Time: 0840

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2332

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-4

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21109280413

Lab File ID: 2111002p/c7821

Date Collected: 09/29/11 Time: 0840

Date Received: 09/30/11

Date Analyzed: 10/02/11 Time: 2332

Dilution Factor: 1 Analyst: SLR

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010501

Lab File ID: 2111007/h2288

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1235

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	5.42		0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010501

Lab File ID: 2111007/h2288

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1235

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW004

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010501

Lab File ID: 2111007/h2288

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1235

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010502

Lab File ID: 2111007/h2289

Date Collected: 09/30/11 Time: 1236

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1256

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	1.41	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21110010502

Level: (low/med) Lab File ID: 2111007/h2289

% Moisture: not dec. Date Collected: 09/30/11 Time: 1236

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 10/01/11

Instrument ID: MSV12 Date Analyzed: 10/07/11 Time: 1256

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: EDS

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.891	J	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW001

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010502

Lab File ID: 2111007/h2289

Date Collected: 09/30/11 Time: 1236

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1256

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010503

Lab File ID: 2111007/h2290

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1317

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	2.50	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010503

Lab File ID: 2111007/h2290

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1317

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	1.04	J	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-5

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010503

Lab File ID: 2111007/h2290

Date Collected: 09/30/11 Time: 1000

Date Received: 10/01/11

Date Analyzed: 10/07/11 Time: 1317

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010504

Lab File ID: 2111005/h2172

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1037

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	2.38	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010504

Lab File ID: 2111005/h2172

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1037

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	3.55	J	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB-1

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010504

Lab File ID: 2111005/h2172

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1037

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 21110010505

Level: (low/med) Lab File ID: 2111007/h2292

% Moisture: not dec. Date Collected: 10/03/11 Time: 0932

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received: 10/04/11

Instrument ID: MSV12 Date Analyzed: 10/07/11 Time: 1419

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: EDS

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	0.909	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010505

Lab File ID: 2111007/h2292

Date Collected: 10/03/11 Time: 0932

Date Received: 10/04/11

Date Analyzed: 10/07/11 Time: 1419

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW002

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010505

Lab File ID: 2111007/h2292

Date Collected: 10/03/11 Time: 0932

Date Received: 10/04/11

Date Analyzed: 10/07/11 Time: 1419

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010506

Lab File ID: 2111007/h2293

Date Collected: 10/03/11 Time: 1146

Date Received: 10/04/11

Date Analyzed: 10/07/11 Time: 1441

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	1.75	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 21110010506

Level: (low/med)

Lab File ID: 2111007/h2293

% Moisture: not dec.

Date Collected: 10/03/11 Time: 1146

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received: 10/04/11

Instrument ID: MSV12

Date Analyzed: 10/07/11 Time: 1441

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: EDS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	1.37	J	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

M114MW003

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010506

Lab File ID: 2111007/h2293

Date Collected: 10/03/11 Time: 1146

Date Received: 10/04/11

Date Analyzed: 10/07/11 Time: 1441

Dilution Factor: 1 Analyst: EDS

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010507

Lab File ID: 2111005/h2173

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1058

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
67-64-1	Acetone	2.31	J	0.322	5.00
71-43-2	Benzene	0.049	U	0.049	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010507

Lab File ID: 2111005/h2173

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1058

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
108-90-7	Chlorobenzene	0.055	U	0.055	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
108-88-3	Toluene	0.078	U	0.078	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB-6

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 21110010507

Lab File ID: 2111005/h2173

Date Collected: 10/03/11 Time: 0800

Date Received: 10/04/11

Date Analyzed: 10/05/11 Time: 1058

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992648

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 992648

Level: (low/med) Lab File ID: 2111002/h2067

% Moisture: not dec. Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Received:

Instrument ID: MSV12 Date Analyzed: 10/02/11 Time: 1303

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	1.59	J	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992648

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992648

Lab File ID: 2111002/h2067

Date Collected: Time:

Date Received:

Date Analyzed: 10/02/11 Time: 1303

Dilution Factor: 1 Analyst: CLH

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992648

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 992648

Level: (low/med)

Lab File ID: 2111002/h2067

% Moisture: not dec.

Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received:

Instrument ID: MSV12

Date Analyzed: 10/02/11 Time: 1303

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: CLH

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466398

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992654

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992654

Lab File ID: 2111002p/c7812

Date Collected: Time:

Date Received:

Date Analyzed: 10/02/11 Time: 2007

Dilution Factor: 1 Analyst: JCK

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992654

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992654

Lab File ID: 2111002p/c7812

Date Collected: Time:

Date Received:

Date Analyzed: 10/02/11 Time: 2007

Dilution Factor: 1 Analyst: JCK

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992654

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992654

Lab File ID: 2111002p/c7812

Date Collected: Time:

Date Received:

Date Analyzed: 10/02/11 Time: 2007

Dilution Factor: 1 Analyst: JCK

Prep Batch: Analytical Batch: 466401

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB993481

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 993481

Lab File ID: 2111005/h2170

Date Collected: Time:

Date Received:

Date Analyzed: 10/05/11 Time: 0902

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB993481

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 993481

Level: (low/med)

Lab File ID: 2111005/h2170

% Moisture: not dec.

Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received:

Instrument ID: MSV12

Date Analyzed: 10/05/11 Time: 0902

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: CGC

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB993481

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 993481

Level: (low/med)

Lab File ID: 2111005/h2170

% Moisture: not dec.

Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received:

Instrument ID: MSV12

Date Analyzed: 10/05/11 Time: 0902

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: CGC

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466593

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB994448

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 994448

Lab File ID: 2111007/h2284D

Date Collected: Time:

Date Received:

Date Analyzed: 10/07/11 Time: 1019

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB994448

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 994448

Lab File ID: 2111007/h2284D

Date Collected: Time:

Date Received:

Date Analyzed: 10/07/11 Time: 1019

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB994448

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV12

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 994448

Lab File ID: 2111007/h2284D

Date Collected: Time:

Date Received:

Date Analyzed: 10/07/11 Time: 1019

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466778

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992820

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 992820

Level: (low/med)

Lab File ID: 2111003/c7830

% Moisture: not dec.

Date Collected: Time:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Received:

Instrument ID: MSV7

Date Analyzed: 10/03/11 Time: 0840

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: CGC

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
67-64-1	Acetone	0.322	U	0.322	5.00
74-97-5	Bromochloromethane	0.238	U	0.238	1.00
75-27-4	Bromodichloromethane	0.071	U	0.071	1.00
75-25-2	Bromoform	0.278	U	0.278	1.00
74-83-9	Bromomethane	0.276	U	0.276	1.00
75-15-0	Carbon disulfide	0.190	U	0.190	1.00
56-23-5	Carbon tetrachloride	0.056	U	0.056	1.00
75-00-3	Chloroethane	0.279	U	0.279	1.00
136777-61-	m,p-Xylene	0.099	U	0.099	2.00
67-66-3	Chloroform	0.062	U	0.062	1.00
74-87-3	Chloromethane	0.076	U	0.076	1.00
74-95-3	Dibromomethane	0.197	U	0.197	1.00
75-71-8	Dichlorodifluoromethane	0.088	U	0.088	1.00
75-34-3	1,1-Dichloroethane	0.064	U	0.064	1.00
107-06-2	1,2-Dichloroethane	0.121	U	0.121	1.00
156-59-2	cis-1,2-Dichloroethene	0.104	U	0.104	1.00
156-60-5	trans-1,2-Dichloroethene	0.096	U	0.096	1.00
75-09-2	Methylene chloride	0.102	U	0.102	5.00
78-87-5	1,2-Dichloropropane	0.114	U	0.114	1.00
10061-01-5	cis-1,3-Dichloropropene	0.105	U	0.105	1.00
10061-02-6	trans-1,3-Dichloropropene	0.068	U	0.068	1.00
100-41-4	Ethylbenzene	0.180	U	0.180	1.00
591-78-6	2-Hexanone	0.302	U	0.302	5.00
98-82-8	Isopropylbenzene (Cumene)	0.058	U	0.058	1.00
78-93-3	2-Butanone	0.235	U	0.235	5.00
108-10-1	4-Methyl-2-pentanone	0.142	U	0.142	5.00
103-65-1	n-Propylbenzene	0.069	U	0.069	1.00
100-42-5	Styrene	0.058	U	0.058	1.00
127-18-4	Tetrachloroethene	0.141	U	0.141	1.00
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	1.00
79-34-5	1,1,2,2-Tetrachloroethane	0.112	U	0.112	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992820

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992820

Lab File ID: 2111003/c7830

Date Collected: Time:

Date Received:

Date Analyzed: 10/03/11 Time: 0840

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	0.138	U	0.138	1.00
71-55-6	1,1,1-Trichloroethane	0.078	U	0.078	1.00
79-00-5	1,1,2-Trichloroethane	0.179	U	0.179	1.00
75-69-4	Trichlorofluoromethane	0.094	U	0.094	1.00
96-18-4	1,2,3-Trichloropropane	0.063	U	0.063	1.00
95-63-6	1,2,4-Trimethylbenzene	0.080	U	0.080	1.00
108-67-8	1,3,5-Trimethylbenzene	0.053	U	0.053	1.00
75-01-4	Vinyl chloride	0.104	U	0.104	1.00
95-47-6	o-Xylene	0.077	U	0.077	1.00
96-12-8	1,2-Dibromo-3-chloropropane	0.082	U	0.082	1.00
106-93-4	1,2-Dibromoethane	0.169	U	0.169	1.00
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084	U	0.084	5.00
99-87-6	4-Isopropyltoluene	0.175	U	0.175	1.00
594-20-7	2,2-Dichloropropane	0.112	U	0.112	1.00
563-58-6	1,1-Dichloropropene	0.071	U	0.071	1.00
142-28-9	1,3-Dichloropropane	0.113	U	0.113	1.00
108-86-1	Bromobenzene	0.095	U	0.095	1.00
95-49-8	2-Chlorotoluene	0.090	U	0.090	1.00
106-43-4	4-Chlorotoluene	0.046	U	0.046	1.00
98-06-6	tert-Butylbenzene	0.058	U	0.058	1.00
135-98-8	sec-Butylbenzene	0.088	U	0.088	1.00
541-73-1	1,3-Dichlorobenzene	0.080	U	0.080	1.00
106-46-7	1,4-Dichlorobenzene	0.058	U	0.058	1.00
104-51-8	n-Butylbenzene	0.068	U	0.068	1.00
95-50-1	1,2-Dichlorobenzene	0.086	U	0.086	1.00
87-68-3	Hexachlorobutadiene	0.347	U	0.347	1.00
91-20-3	Naphthalene	0.175	U	0.175	1.00
87-61-6	1,2,3-Trichlorobenzene	0.107	U	0.107	1.00
75-35-4	1,1-Dichloroethene	0.183	U	0.183	1.00
71-43-2	Benzene	0.049	U	0.049	1.00
79-01-6	Trichloroethene	0.094	U	0.094	1.00
108-88-3	Toluene	0.078	U	0.078	1.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB992820

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: RTX-VMS-30 ID: .25 (mm)

Instrument ID: MSV7

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 992820

Lab File ID: 2111003/c7830

Date Collected: Time:

Date Received:

Date Analyzed: 10/03/11 Time: 0840

Dilution Factor: 1 Analyst: CGC

Prep Batch: Analytical Batch: 466441

Analytical Method: SW-846 8260B

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
108-90-7	Chlorobenzene	0.055	U	0.055	1.00

FORM I VOA

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 8260B

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	MA01MW001	96		99		102		98		0
2.	MA01-MW004	97		100		104		100		0
3.	MA01-MW002	94		101		103		101		0
4.	TB-4	94		100		102		101		0
5.	M114MW004	100		93		105		94		0
6.	M114MW001	101		94		104		95		0
7.	TB-5	102		94		104		96		0
8.	EB-1	101		94		106		95		0
9.	M114MW002	101		91		105		94		0
10.	M114MW003	100		92		102		96		0
11.	TB-6	101		93		106		95		0
12.	MA01MW003	99		97		104		95		0
13.	LCS992649	99		101		101		98		0
14.	LCS992655	107		98		101		93		0
15.	LCS992821	100		102		99		100		0
16.	LCS993482	102		93		100		97		0
17.	LCS994449	100		94		101		97		0
18.	LCSD992650	100		101		101		99		0
19.	LCSD992656	106		98		101		93		0
20.	LCSD993483	101		96		102		97		0
21.	LCSD994450	97		97		101		99		0
22.	MB992648	103		96		105		94		0
23.	MA01MW003-MS	101		101		97		101		0
24.	MB992654	99		97		104		93		0
25.	MB993481	102		93		105		94		0
26.	MB994448	101		92		106		94		0
27.	MB992820	94		99		102		100		0
28.	MA01MW003-MSD	103		99		98		97		0
29.	TB-1	96		99		103		98		0
30.	MA02 MW001D	101		94		105		95		0
31.	FD-1	102		95		105		94		0
32.	TB-2	102		95		104		95		0
33.	MWQ-23	91		102		103		104		0

FORM II VOA-1

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 8260B

SAMPLE NO.		SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
		QC LIMITS								
SMC 1	4-Bromofluorobenzene	75 - 120								
SMC 2	Dibromofluoromethane	85 - 115								
SMC 3	Toluene-d8	85 - 120								
SMC 4	1,2-Dichloroethane-d4	70 - 120								

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466398

SAMPLE NO. : 992649

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	51.7	103		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	54.5	109		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	48.8	98		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	49.2	98		75 - 125
1,1-Dichloroethane	ug/L	50	0	55.3	111		70 - 135
1,1-Dichloroethene	ug/L	50	0	51.9	104		70 - 130
1,1-Dichloropropene	ug/L	50	0	53.9	108		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	55.4	111		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	46.9	94		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	57.2	114		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	52.8	106		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	52.9	106		50 - 130
1,2-Dibromoethane	ug/L	50	0	49	98		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	51.9	104		70 - 120
1,2-Dichloroethane	ug/L	50	0	48.4	97		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.3	105		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	53.3	107		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	53.3	107		75 - 125
1,3-Dichloropropane	ug/L	50	0	50.5	101		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	52.4	105		75 - 125
2,2-Dichloropropane	ug/L	50	0	55.3	111		70 - 135
2-Butanone	ug/L	50	0	52.2	104		30 - 150
2-Chlorotoluene	ug/L	50	0	51.4	103		75 - 125
2-Hexanone	ug/L	50	0	52	104		55 - 130
4-Chlorotoluene	ug/L	50	0	51.7	103		75 - 130
4-Isopropyltoluene	ug/L	50	0	55.4	111		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	48.1	96		60 - 135
Acetone	ug/L	50	0	56.5	113		40 - 140
Benzene	ug/L	50	0	52.8	106		80 - 120
Bromobenzene	ug/L	50	0	52.2	104		75 - 125
Bromochloromethane	ug/L	50	0	50.5	101		65 - 130
Bromodichloromethane	ug/L	50	0	50.4	101		75 - 120
Bromoform	ug/L	50	0	50.1	100		70 - 130
Bromomethane	ug/L	50	0	48.7	97		30 - 145
Carbon disulfide	ug/L	50	0	47.9	96		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466398

Carbon tetrachloride	ug/L	50	0	53.3	107		65 - 140
Chlorobenzene	ug/L	50	0	51.2	102		80 - 120
Chloroethane	ug/L	50	0	60.6	121		60 - 135
Chloroform	ug/L	50	0	50.7	101		65 - 135
Chloromethane	ug/L	50	0	56.6	113		40 - 125
Dibromomethane	ug/L	50	0	48.9	98		75 - 125
Dichlorodifluoromethane	ug/L	50	0	48.6	97		30 - 155
Ethylbenzene	ug/L	50	0	49.6	99		75 - 125
Hexachlorobutadiene	ug/L	50	0	59.8	120		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	52.8	106		75 - 125
Methylene chloride	ug/L	50	0	54	108		55 - 140
Naphthalene	ug/L	50	0	53.2	106		55 - 140
Styrene	ug/L	50	0	52	104		65 - 135
Tetrachloroethene	ug/L	50	0	53.2	106		45 - 150
Toluene	ug/L	50	0	53.7	107		75 - 120
Trichloroethene	ug/L	50	0	51	102		70 - 125
Trichlorofluoromethane	ug/L	50	0	51.6	103		60 - 145
Vinyl chloride	ug/L	50	0	54.5	109		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	53	106		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	55	110		70 - 130
m,p-Xylene	ug/L	100	0	102	102		75 - 130
n-Butylbenzene	ug/L	50	0	51.2	102		70 - 135
n-Propylbenzene	ug/L	50	0	53.3	107		70 - 130
o-Xylene	ug/L	50	0	52.1	104		75 - 130
sec-Butylbenzene	ug/L	50	0	54.8	110		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	53.7	107		65 - 125
tert-Butylbenzene	ug/L	50	0	53.8	108		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	55.8	112		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	51.3	103		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466398

SAMPLE NO. : 992650

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101		3		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	52.3	105		4		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99		1		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	48.9	98		.6		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	53.6	107		3		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	50.5	101		3		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	51.9	104		4		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	56.3	113		2		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	47.7	95		2		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	56.8	114		.7		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	51	102		3		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	53.9	108		2		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	48.8	98		.4		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	51.7	103		.4		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	47.5	95		2		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	52.9	106		1		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	51.4	103		4		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	51.7	103		3		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	50.3	101		.4		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	52.2	104		.4		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	53.4	107		3		70 - 135	0 - 30
2-Butanone	ug/L	50	55.2	110		6		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	50	100		3		75 - 125	0 - 30
2-Hexanone	ug/L	50	53.7	107		3		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	50.6	101		2		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	53.1	106		4		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	49.8	100		3		60 - 135	0 - 30
Acetone	ug/L	50	59.4	119		5		40 - 140	0 - 30
Benzene	ug/L	50	51.8	104		2		80 - 120	0 - 30
Bromobenzene	ug/L	50	51.3	103		2		75 - 125	0 - 30
Bromochloromethane	ug/L	50	50.5	101		0		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	50.4	101		0		75 - 120	0 - 30
Bromoform	ug/L	50	50.9	102		2		70 - 130	0 - 30
Bromomethane	ug/L	50	50.5	101		4		30 - 145	0 - 30
Carbon disulfide	ug/L	50	46.9	94		2		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466398

Carbon tetrachloride	ug/L	50	51.1	102		4		65 - 140	0 - 30
Chlorobenzene	ug/L	50	50.8	102		.8		80 - 120	0 - 30
Chloroethane	ug/L	50	60.6	121		0		60 - 135	0 - 30
Chloroform	ug/L	50	50.2	100		1		65 - 135	0 - 30
Chloromethane	ug/L	50	54	108		5		40 - 125	0 - 30
Dibromomethane	ug/L	50	49.7	99		2		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	45.8	92		6		30 - 155	0 - 30
Ethylbenzene	ug/L	50	48.2	96		3		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	59	118		1		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	51.3	103		3		75 - 125	0 - 30
Methylene chloride	ug/L	50	53.8	108		.4		55 - 140	0 - 30
Naphthalene	ug/L	50	55.8	112		5		55 - 140	0 - 30
Styrene	ug/L	50	52	104		0		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	50.2	100		6		45 - 150	0 - 30
Toluene	ug/L	50	51.9	104		3		75 - 120	0 - 30
Trichloroethene	ug/L	50	49.5	99		3		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	49.8	100		4		60 - 145	0 - 30
Vinyl chloride	ug/L	50	52.8	106		3		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	52.5	105		.9		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	53.4	107		3		70 - 130	0 - 30
m,p-Xylene	ug/L	100	99	99		3		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	49.6	99		3		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	50.7	101		5		70 - 130	0 - 30
o-Xylene	ug/L	50	51.7	103		.8		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	52.8	106		4		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	55.3	111		3		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	52	104		3		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	55.1	110		1		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	50.7	101		1		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003

Analytical Batch: 466401

SAMPLE NO. : 21109280403

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	52.9	106		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	52.8	106		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	52.4	105		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	51.8	104		75 - 125
1,1-Dichloroethane	ug/L	50	0	51	102		70 - 135
1,1-Dichloroethene	ug/L	50	0	50.8	102		70 - 130
1,1-Dichloropropene	ug/L	50	0	55.1	110		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	52	104		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	52.2	104		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	53.6	107		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	52.5	105		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	49.8	100		50 - 130
1,2-Dibromoethane	ug/L	50	0	53.2	106		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	51.6	103		70 - 120
1,2-Dichloroethane	ug/L	50	0	52.3	105		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.7	105		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	56.6	113		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	50.6	101		65 - 130
1,3-Dichloropropane	ug/L	50	0	52.3	105		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	50.2	100		65 - 130
2,2-Dichloropropane	ug/L	50	0	53.9	108		70 - 135
2-Butanone	ug/L	50	0	41.3	83		30 - 150
2-Chlorotoluene	ug/L	50	0	53.5	107		75 - 125
2-Hexanone	ug/L	50	0	43.7	87		55 - 130
4-Chlorotoluene	ug/L	50	0	54	108		75 - 130
4-Isopropyltoluene	ug/L	50	0	51.1	102		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	57.1	114		60 - 135
Acetone	ug/L	50	0	28.9	58		40 - 140
Benzene	ug/L	50	0	52.3	105		80 - 120
Bromobenzene	ug/L	50	0	49.8	100		75 - 125
Bromochloromethane	ug/L	50	0	53.3	107		65 - 130
Bromodichloromethane	ug/L	50	0	54.2	108		75 - 120
Bromoform	ug/L	50	0	58.4	117		70 - 130
Bromomethane	ug/L	50	0	47.4	95		30 - 145
Carbon disulfide	ug/L	50	0	51.6	103		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003

Analytical Batch: 466401

Carbon tetrachloride	ug/L	50	0	53.2	106		65	-	140
Chlorobenzene	ug/L	50	0	49.3	99		80	-	120
Chloroethane	ug/L	50	0	58.6	117		60	-	135
Chloroform	ug/L	50	0	49.1	98		65	-	135
Chloromethane	ug/L	50	0	53.1	106		40	-	125
Dibromomethane	ug/L	50	0	54.2	108		75	-	125
Dichlorodifluoromethane	ug/L	50	0	49	98		30	-	155
Ethylbenzene	ug/L	50	0	53.5	107		75	-	125
Hexachlorobutadiene	ug/L	50	0	49	98		50	-	140
Isopropylbenzene (Cumene)	ug/L	50	0	51.2	102		75	-	125
Methylene chloride	ug/L	50	0	54.8	110		55	-	140
Naphthalene	ug/L	50	0	48.5	97		55	-	140
Styrene	ug/L	50	0	51.3	103		65	-	135
Tetrachloroethene	ug/L	50	0	49.6	99		45	-	150
Toluene	ug/L	50	0	49.3	99		75	-	120
Trichloroethene	ug/L	50	0	51.5	103		70	-	125
Trichlorofluoromethane	ug/L	50	0	50.7	101		60	-	145
Vinyl chloride	ug/L	50	0	50.1	100		50	-	145
cis-1,2-Dichloroethene	ug/L	50	0	53.4	107		70	-	125
cis-1,3-Dichloropropene	ug/L	50	0	55	110		70	-	130
m,p-Xylene	ug/L	100	0	104	104		75	-	130
n-Butylbenzene	ug/L	50	0	55.6	111		70	-	135
n-Propylbenzene	ug/L	50	0	53.5	107		70	-	130
o-Xylene	ug/L	50	0	51.9	104		80	-	120
sec-Butylbenzene	ug/L	50	0	54.1	108		70	-	125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	53.2	106		65	-	125
tert-Butylbenzene	ug/L	50	0	57.4	115		70	-	130
trans-1,2-Dichloroethene	ug/L	50	0	50.9	102		60	-	140
trans-1,3-Dichloropropene	ug/L	50	0	58.7	117		55	-	140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003

Analytical Batch: 466401

SAMPLE NO. : 21109280404

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104		2		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	50.5	101		4		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104		1		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	51.7	103		.2		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	49	98		4		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	49	98		4		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	52.3	105		5		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	52.5	105		1		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	50.7	101		3		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	54.5	109		2		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	51.7	103		2		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	48.4	97		3		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	53.2	106		0		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	51	102		1		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	49.6	99		5		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	51.4	103		2		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	55.6	111		2		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	50.1	100		1		65 - 130	0 - 30
1,3-Dichloropropane	ug/L	50	52.3	105		0		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	48.9	98		3		65 - 130	0 - 30
2,2-Dichloropropane	ug/L	50	50.6	101		6		70 - 135	0 - 30
2-Butanone	ug/L	50	40.4	81		2		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	53.7	107		.4		75 - 125	0 - 30
2-Hexanone	ug/L	50	44	88		.7		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	52.8	106		2		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	50.1	100		2		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	54.2	108		5		60 - 135	0 - 30
Acetone	ug/L	50	27.8	56		4		40 - 140	0 - 30
Benzene	ug/L	50	49.9	100		5		80 - 120	0 - 30
Bromobenzene	ug/L	50	49.5	99		.6		75 - 125	0 - 30
Bromochloromethane	ug/L	50	51.2	102		4		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	51.3	103		5		75 - 120	0 - 30
Bromoform	ug/L	50	57	114		2		70 - 130	0 - 30
Bromomethane	ug/L	50	47.1	94		.6		30 - 145	0 - 30
Carbon disulfide	ug/L	50	49.3	99		5		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003

Analytical Batch: 466401

Carbon tetrachloride	ug/L	50	49.1	98		8		65 - 140	0 - 30
Chlorobenzene	ug/L	50	49.3	99		0		80 - 120	0 - 30
Chloroethane	ug/L	50	56.5	113		4		60 - 135	0 - 30
Chloroform	ug/L	50	46.6	93		5		65 - 135	0 - 30
Chloromethane	ug/L	50	50.3	101		5		40 - 125	0 - 30
Dibromomethane	ug/L	50	51.2	102		6		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	46.4	93		5		30 - 155	0 - 30
Ethylbenzene	ug/L	50	52.5	105		2		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	48.9	98		.2		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	49.9	100		3		75 - 125	0 - 30
Methylene chloride	ug/L	50	51.8	104		6		55 - 140	0 - 30
Naphthalene	ug/L	50	49.1	98		1		55 - 140	0 - 30
Styrene	ug/L	50	50.4	101		2		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	49.4	99		.4		45 - 150	0 - 30
Toluene	ug/L	50	49.1	98		.4		75 - 120	0 - 30
Trichloroethene	ug/L	50	49.3	99		4		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	47.2	94		7		60 - 145	0 - 30
Vinyl chloride	ug/L	50	48.1	96		4		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	50.6	101		5		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	53.6	107		3		70 - 130	0 - 30
m,p-Xylene	ug/L	100	102	102		2		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	54	108		3		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	52.5	105		2		70 - 130	0 - 30
o-Xylene	ug/L	50	50.6	101		3		80 - 120	0 - 30
sec-Butylbenzene	ug/L	50	53.4	107		1		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	50.8	102		5		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	55.7	111		3		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	48.1	96		6		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	55.3	111		6		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466401

SAMPLE NO. : 992655

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	52.4	105		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	48.6	97		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	47.7	95		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	51.9	104		75 - 125
1,1-Dichloroethane	ug/L	50	0	48.1	96		70 - 135
1,1-Dichloroethene	ug/L	50	0	48.1	96		70 - 130
1,1-Dichloropropene	ug/L	50	0	51.6	103		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	54.8	110		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	50.6	101		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	55.9	112		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	51.3	103		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	48.8	98		50 - 130
1,2-Dibromoethane	ug/L	50	0	54.8	110		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	50.5	101		70 - 120
1,2-Dichloroethane	ug/L	50	0	46.3	93		70 - 130
1,2-Dichloropropane	ug/L	50	0	50.8	102		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	55	110		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	49.9	100		75 - 125
1,3-Dichloropropane	ug/L	50	0	52.2	104		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	48.5	97		75 - 125
2,2-Dichloropropane	ug/L	50	0	47.7	95		70 - 135
2-Butanone	ug/L	50	0	48.3	97		30 - 150
2-Chlorotoluene	ug/L	50	0	52.4	105		75 - 125
2-Hexanone	ug/L	50	0	50.6	101		55 - 130
4-Chlorotoluene	ug/L	50	0	51.4	103		75 - 130
4-Isopropyltoluene	ug/L	50	0	50.4	101		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	54.1	108		60 - 135
Acetone	ug/L	50	0	44.9	90		40 - 140
Benzene	ug/L	50	0	49.8	100		80 - 120
Bromobenzene	ug/L	50	0	47.9	96		75 - 125
Bromochloromethane	ug/L	50	0	52.3	105		65 - 130
Bromodichloromethane	ug/L	50	0	50.6	101		75 - 120
Bromoform	ug/L	50	0	57.4	115		70 - 130
Bromomethane	ug/L	50	0	50.9	102		30 - 145
Carbon disulfide	ug/L	50	0	48.7	97		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466401

Carbon tetrachloride	ug/L	50	0	48.9	98		65	-	140
Chlorobenzene	ug/L	50	0	49.5	99		80	-	120
Chloroethane	ug/L	50	0	51.7	103		60	-	135
Chloroform	ug/L	50	0	46.9	94		65	-	135
Chloromethane	ug/L	50	0	48.8	98		40	-	125
Dibromomethane	ug/L	50	0	50.1	100		75	-	125
Dichlorodifluoromethane	ug/L	50	0	45.4	91		30	-	155
Ethylbenzene	ug/L	50	0	53.8	108		75	-	125
Hexachlorobutadiene	ug/L	50	0	51.2	102		50	-	140
Isopropylbenzene (Cumene)	ug/L	50	0	50.6	101		75	-	125
Methylene chloride	ug/L	50	0	48.9	98		55	-	140
Naphthalene	ug/L	50	0	50.8	102		55	-	140
Styrene	ug/L	50	0	52.1	104		65	-	135
Tetrachloroethene	ug/L	50	0	51.5	103		45	-	150
Toluene	ug/L	50	0	49.4	99		75	-	120
Trichloroethene	ug/L	50	0	51.3	103		70	-	125
Trichlorofluoromethane	ug/L	50	0	44.4	89		60	-	145
Vinyl chloride	ug/L	50	0	48.2	96		50	-	145
cis-1,2-Dichloroethene	ug/L	50	0	49.6	99		70	-	125
cis-1,3-Dichloropropene	ug/L	50	0	54.7	109		70	-	130
m,p-Xylene	ug/L	100	0	104	104		75	-	130
n-Butylbenzene	ug/L	50	0	54	108		70	-	135
n-Propylbenzene	ug/L	50	0	52.5	105		70	-	130
o-Xylene	ug/L	50	0	52.9	106		75	-	130
sec-Butylbenzene	ug/L	50	0	53.7	107		70	-	125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	50.4	101		65	-	125
tert-Butylbenzene	ug/L	50	0	54.2	108		70	-	130
trans-1,2-Dichloroethene	ug/L	50	0	46.8	94		60	-	140
trans-1,3-Dichloropropene	ug/L	50	0	54.6	109		55	-	140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466401

SAMPLE NO. : 992656

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105		.2		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	47.1	94		3		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	48	96		.6		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	52	104		.2		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	46.5	93		3		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	46.6	93		3		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	50.3	101		3		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	53.4	107		3		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	50	100		1		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	53.5	107		4		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	49.8	100		3		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	49	98		.4		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	54.5	109		.5		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	49.2	98		3		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	45.6	91		2		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	49.6	99		2		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	53.7	107		2		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	48.7	97		2		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	52	104		.4		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	47.4	95		2		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	46.7	93		2		70 - 135	0 - 30
2-Butanone	ug/L	50	47.8	96		1		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	50.3	101		4		75 - 125	0 - 30
2-Hexanone	ug/L	50	50.8	102		.4		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	50.3	101		2		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	49	98		3		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	54.4	109		.6		60 - 135	0 - 30
Acetone	ug/L	50	45	90		.2		40 - 140	0 - 30
Benzene	ug/L	50	48.8	98		2		80 - 120	0 - 30
Bromobenzene	ug/L	50	47.1	94		2		75 - 125	0 - 30
Bromochloromethane	ug/L	50	51	102		3		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	49.1	98		3		75 - 120	0 - 30
Bromoform	ug/L	50	57.7	115		.5		70 - 130	0 - 30
Bromomethane	ug/L	50	50.6	101		.6		30 - 145	0 - 30
Carbon disulfide	ug/L	50	47.2	94		3		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466401

Carbon tetrachloride	ug/L	50	47.1	94		4		65 - 140	0 - 30
Chlorobenzene	ug/L	50	49.7	99		.4		80 - 120	0 - 30
Chloroethane	ug/L	50	48.4	97		7		60 - 135	0 - 30
Chloroform	ug/L	50	45.9	92		2		65 - 135	0 - 30
Chloromethane	ug/L	50	47.3	95		3		40 - 125	0 - 30
Dibromomethane	ug/L	50	49.6	99		1		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	44.5	89		2		30 - 155	0 - 30
Ethylbenzene	ug/L	50	53.2	106		1		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	47.7	95		7		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	50	100		1		75 - 125	0 - 30
Methylene chloride	ug/L	50	47.3	95		3		55 - 140	0 - 30
Naphthalene	ug/L	50	50.3	101		1		55 - 140	0 - 30
Styrene	ug/L	50	51.9	104		.4		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	50.5	101		2		45 - 150	0 - 30
Toluene	ug/L	50	49.2	98		.4		75 - 120	0 - 30
Trichloroethene	ug/L	50	50.7	101		1		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	42.8	86		4		60 - 145	0 - 30
Vinyl chloride	ug/L	50	46.4	93		4		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	47.7	95		4		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	53.7	107		2		70 - 130	0 - 30
m,p-Xylene	ug/L	100	103	103		1		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	51.8	104		4		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	50.7	101		3		70 - 130	0 - 30
o-Xylene	ug/L	50	52	104		2		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	52.4	105		2		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	50.1	100		.6		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	52.4	105		3		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	45.8	92		2		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	53.7	107		2		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466441

SAMPLE NO. : 992821

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	51.2	102		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	52.8	106		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	49.4	99		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	49.8	100		75 - 125
1,1-Dichloroethane	ug/L	50	0	50.7	101		70 - 135
1,1-Dichloroethene	ug/L	50	0	51.1	102		70 - 130
1,1-Dichloropropene	ug/L	50	0	54.9	110		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	57	114		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	49.6	99		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	59.5	119		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	54.9	110		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	44.4	89		50 - 130
1,2-Dibromoethane	ug/L	50	0	51.3	103		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	52.3	105		70 - 120
1,2-Dichloroethane	ug/L	50	0	52	104		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.3	105		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	58.9	118		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	51.6	103		75 - 125
1,3-Dichloropropane	ug/L	50	0	51.2	102		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	50.2	100		75 - 125
2,2-Dichloropropane	ug/L	50	0	53.8	108		70 - 135
2-Butanone	ug/L	50	0	48.6	97		30 - 150
2-Chlorotoluene	ug/L	50	0	55.5	111		75 - 125
2-Hexanone	ug/L	50	0	47.4	95		55 - 130
4-Chlorotoluene	ug/L	50	0	55.1	110		75 - 130
4-Isopropyltoluene	ug/L	50	0	53.7	107		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	52.4	105		60 - 135
Acetone	ug/L	50	0	51.4	103		40 - 140
Benzene	ug/L	50	0	51.7	103		80 - 120
Bromobenzene	ug/L	50	0	51	102		75 - 125
Bromochloromethane	ug/L	50	0	52.7	105		65 - 130
Bromodichloromethane	ug/L	50	0	53	106		75 - 120
Bromoform	ug/L	50	0	52.6	105		70 - 130
Bromomethane	ug/L	50	0	48.1	96		30 - 145
Carbon disulfide	ug/L	50	0	53.2	106		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 64 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466441

Carbon tetrachloride	ug/L	50	0	59.5	119		65 - 140
Chlorobenzene	ug/L	50	0	49.2	98		80 - 120
Chloroethane	ug/L	50	0	57	114		60 - 135
Chloroform	ug/L	50	0	48.6	97		65 - 135
Chloromethane	ug/L	50	0	42.9	86		40 - 125
Dibromomethane	ug/L	50	0	51.9	104		75 - 125
Dichlorodifluoromethane	ug/L	50	0	49.9	100		30 - 155
Ethylbenzene	ug/L	50	0	52.8	106		75 - 125
Hexachlorobutadiene	ug/L	50	0	56.8	114		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	51.4	103		75 - 125
Methylene chloride	ug/L	50	0	55.9	112		55 - 140
Naphthalene	ug/L	50	0	50.3	101		55 - 140
Styrene	ug/L	50	0	50.7	101		65 - 135
Tetrachloroethene	ug/L	50	0	49.1	98		45 - 150
Toluene	ug/L	50	0	49.3	99		75 - 120
Trichloroethene	ug/L	50	0	50.6	101		70 - 125
Trichlorofluoromethane	ug/L	50	0	52.2	104		60 - 145
Vinyl chloride	ug/L	50	0	50.2	100		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	53.2	106		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	56.5	113		70 - 130
m,p-Xylene	ug/L	100	0	104	104		75 - 130
n-Butylbenzene	ug/L	50	0	60.4	121		70 - 135
n-Propylbenzene	ug/L	50	0	56	112		70 - 130
o-Xylene	ug/L	50	0	51	102		75 - 130
sec-Butylbenzene	ug/L	50	0	57.6	115		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	51.4	103		65 - 125
tert-Butylbenzene	ug/L	50	0	59.9	120		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	51.7	103		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	56.1	112		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 64 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466593

SAMPLE NO. : 993482

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	47.3	95		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	50.3	101		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	44.2	88		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	47.7	95		75 - 125
1,1-Dichloroethane	ug/L	50	0	50.9	102		70 - 135
1,1-Dichloroethene	ug/L	50	0	49.6	99		70 - 130
1,1-Dichloropropene	ug/L	50	0	50.8	102		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	54.9	110		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	46.9	94		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	55.8	112		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	51.5	103		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	51.2	102		50 - 130
1,2-Dibromoethane	ug/L	50	0	48.9	98		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	51.9	104		70 - 120
1,2-Dichloroethane	ug/L	50	0	46.9	94		70 - 130
1,2-Dichloropropane	ug/L	50	0	50.4	101		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	51.5	103		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	52.4	105		75 - 125
1,3-Dichloropropane	ug/L	50	0	49.7	99		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	53.5	107		75 - 125
2,2-Dichloropropane	ug/L	50	0	51.6	103		70 - 135
2-Butanone	ug/L	50	0	48.3	97		30 - 150
2-Chlorotoluene	ug/L	50	0	49.5	99		75 - 125
2-Hexanone	ug/L	50	0	50	100		55 - 130
4-Chlorotoluene	ug/L	50	0	51.8	104		75 - 130
4-Isopropyltoluene	ug/L	50	0	55.2	110		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	48.2	96		60 - 135
Acetone	ug/L	50	0	47.3	95		40 - 140
Benzene	ug/L	50	0	51.3	103		80 - 120
Bromobenzene	ug/L	50	0	50.7	101		75 - 125
Bromochloromethane	ug/L	50	0	47.7	95		65 - 130
Bromodichloromethane	ug/L	50	0	46.4	93		75 - 120
Bromoform	ug/L	50	0	47	94		70 - 130
Bromomethane	ug/L	50	0	45.3	91		30 - 145
Carbon disulfide	ug/L	50	0	44	88		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466593

Carbon tetrachloride	ug/L	50	0	47.3	95		65	-	140
Chlorobenzene	ug/L	50	0	50.6	101		80	-	120
Chloroethane	ug/L	50	0	55.7	111		60	-	135
Chloroform	ug/L	50	0	46.9	94		65	-	135
Chloromethane	ug/L	50	0	51.4	103		40	-	125
Dibromomethane	ug/L	50	0	47.9	96		75	-	125
Dichlorodifluoromethane	ug/L	50	0	41.1	82		30	-	155
Ethylbenzene	ug/L	50	0	48.8	98		75	-	125
Hexachlorobutadiene	ug/L	50	0	59.8	120		50	-	140
Isopropylbenzene (Cumene)	ug/L	50	0	52.1	104		75	-	125
Methylene chloride	ug/L	50	0	51.4	103		55	-	140
Naphthalene	ug/L	50	0	53.7	107		55	-	140
Styrene	ug/L	50	0	52.1	104		65	-	135
Tetrachloroethene	ug/L	50	0	50.2	100		45	-	150
Toluene	ug/L	50	0	51.3	103		75	-	120
Trichloroethene	ug/L	50	0	51.8	104		70	-	125
Trichlorofluoromethane	ug/L	50	0	46.6	93		60	-	145
Vinyl chloride	ug/L	50	0	49.7	99		50	-	145
cis-1,2-Dichloroethene	ug/L	50	0	51.5	103		70	-	125
cis-1,3-Dichloropropene	ug/L	50	0	50.9	102		70	-	130
m,p-Xylene	ug/L	100	0	101	101		75	-	130
n-Butylbenzene	ug/L	50	0	50.1	100		70	-	135
n-Propylbenzene	ug/L	50	0	51	102		70	-	130
o-Xylene	ug/L	50	0	52.1	104		75	-	130
sec-Butylbenzene	ug/L	50	0	53.2	106		70	-	125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	52.1	104		65	-	125
tert-Butylbenzene	ug/L	50	0	52.1	104		70	-	130
trans-1,2-Dichloroethene	ug/L	50	0	53.7	107		60	-	140
trans-1,3-Dichloropropene	ug/L	50	0	49	98		55	-	140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466593

SAMPLE NO. : 993483

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	46	92		3		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	47.1	94		7		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	41.3	83		7		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	46.8	94		2		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	49.4	99		3		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	46	92		8		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	47.1	94		8		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	52.7	105		4		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	43	86		9		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	54.1	108		3		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	49.2	98		5		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	45.4	91		12		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	47.3	95		3		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	49.7	99		4		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	45.1	90		4		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	49.4	99		2		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	48.6	97		6		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	50	100		5		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	48.4	97		3		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	50.9	102		5		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	50.5	101		2		70 - 135	0 - 30
2-Butanone	ug/L	50	42.1	84		14		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	46.7	93		6		75 - 125	0 - 30
2-Hexanone	ug/L	50	44.5	89		12		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	49.3	99		5		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	52.1	104		6		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	43.6	87		10		60 - 135	0 - 30
Acetone	ug/L	50	40.5	81		15		40 - 140	0 - 30
Benzene	ug/L	50	47.7	95		7		80 - 120	0 - 30
Bromobenzene	ug/L	50	48.5	97		4		75 - 125	0 - 30
Bromochloromethane	ug/L	50	46.7	93		2		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	45.1	90		3		75 - 120	0 - 30
Bromoform	ug/L	50	44.3	89		6		70 - 130	0 - 30
Bromomethane	ug/L	50	48.5	97		7		30 - 145	0 - 30
Carbon disulfide	ug/L	50	41	82		7		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466593

Carbon tetrachloride	ug/L	50	45.3	91		4		65 - 140	0 - 30
Chlorobenzene	ug/L	50	49	98		3		80 - 120	0 - 30
Chloroethane	ug/L	50	50.6	101		10		60 - 135	0 - 30
Chloroform	ug/L	50	45.9	92		2		65 - 135	0 - 30
Chloromethane	ug/L	50	49	98		5		40 - 125	0 - 30
Dibromomethane	ug/L	50	46.5	93		3		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	39.4	79		4		30 - 155	0 - 30
Ethylbenzene	ug/L	50	46.3	93		5		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	57.1	114		5		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	49.4	99		5		75 - 125	0 - 30
Methylene chloride	ug/L	50	50.1	100		3		55 - 140	0 - 30
Naphthalene	ug/L	50	50.5	101		6		55 - 140	0 - 30
Styrene	ug/L	50	50.7	101		3		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	48.2	96		4		45 - 150	0 - 30
Toluene	ug/L	50	49.5	99		4		75 - 120	0 - 30
Trichloroethene	ug/L	50	47.3	95		9		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	43.3	87		7		60 - 145	0 - 30
Vinyl chloride	ug/L	50	45.3	91		9		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	49.6	99		4		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	49.7	99		2		70 - 130	0 - 30
m,p-Xylene	ug/L	100	95.2	95		6		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	46.9	94		7		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	48.1	96		6		70 - 130	0 - 30
o-Xylene	ug/L	50	49.9	100		4		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	50	100		6		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	50.5	101		3		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	48.9	98		6		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	50	100		7		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	48.8	98		.4		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466778

SAMPLE NO. : 994449

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
1,1,1,2-Tetrachloroethane	ug/L	50	0	49.4	99		80 - 130
1,1,1-Trichloroethane	ug/L	50	0	52.7	105		65 - 130
1,1,2,2-Tetrachloroethane	ug/L	50	0	42.2	84		65 - 130
1,1,2-Trichloroethane	ug/L	50	0	49.8	100		75 - 125
1,1-Dichloroethane	ug/L	50	0	53.5	107		70 - 135
1,1-Dichloroethene	ug/L	50	0	48.2	96		70 - 130
1,1-Dichloropropene	ug/L	50	0	51.2	102		75 - 130
1,2,3-Trichlorobenzene	ug/L	50	0	55.8	112		55 - 140
1,2,3-Trichloropropane	ug/L	50	0	47.9	96		75 - 125
1,2,4-Trichlorobenzene	ug/L	50	0	56.6	113		65 - 135
1,2,4-Trimethylbenzene	ug/L	50	0	53.9	108		75 - 130
1,2-Dibromo-3-chloropropane	ug/L	50	0	50.2	100		50 - 130
1,2-Dibromoethane	ug/L	50	0	50.6	101		80 - 120
1,2-Dichlorobenzene	ug/L	50	0	52.2	104		70 - 120
1,2-Dichloroethane	ug/L	50	0	48.7	97		70 - 130
1,2-Dichloropropane	ug/L	50	0	52.9	106		75 - 125
1,3,5-Trimethylbenzene	ug/L	50	0	52.8	106		75 - 130
1,3-Dichlorobenzene	ug/L	50	0	52.9	106		75 - 125
1,3-Dichloropropane	ug/L	50	0	52	104		75 - 125
1,4-Dichlorobenzene	ug/L	50	0	54.1	108		75 - 125
2,2-Dichloropropane	ug/L	50	0	55.6	111		70 - 135
2-Butanone	ug/L	50	0	49.2	98		30 - 150
2-Chlorotoluene	ug/L	50	0	50.7	101		75 - 125
2-Hexanone	ug/L	50	0	52.5	105		55 - 130
4-Chlorotoluene	ug/L	50	0	52.8	106		75 - 130
4-Isopropyltoluene	ug/L	50	0	56.1	112		75 - 130
4-Methyl-2-pentanone	ug/L	50	0	50.2	100		60 - 135
Acetone	ug/L	50	0	46.8	94		40 - 140
Benzene	ug/L	50	0	51.5	103		80 - 120
Bromobenzene	ug/L	50	0	52.4	105		75 - 125
Bromochloromethane	ug/L	50	0	49	98		65 - 130
Bromodichloromethane	ug/L	50	0	47.7	95		75 - 120
Bromoform	ug/L	50	0	46.6	93		70 - 130
Bromomethane	ug/L	50	0	43.8	88		30 - 145
Carbon disulfide	ug/L	50	0	42.6	85		35 - 160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466778

Carbon tetrachloride	ug/L	50	0	48.8	98		65 - 140
Chlorobenzene	ug/L	50	0	51.6	103		80 - 120
Chloroethane	ug/L	50	0	51.9	104		60 - 135
Chloroform	ug/L	50	0	48.9	98		65 - 135
Chloromethane	ug/L	50	0	49.3	99		40 - 125
Dibromomethane	ug/L	50	0	49.5	99		75 - 125
Dichlorodifluoromethane	ug/L	50	0	40.5	81		30 - 155
Ethylbenzene	ug/L	50	0	50.2	100		75 - 125
Hexachlorobutadiene	ug/L	50	0	58.9	118		50 - 140
Isopropylbenzene (Cumene)	ug/L	50	0	53.9	108		75 - 125
Methylene chloride	ug/L	50	0	52.2	104		55 - 140
Naphthalene	ug/L	50	0	53.9	108		55 - 140
Styrene	ug/L	50	0	53.8	108		65 - 135
Tetrachloroethene	ug/L	50	0	51.6	103		45 - 150
Toluene	ug/L	50	0	53.3	107		75 - 120
Trichloroethene	ug/L	50	0	54.1	108		70 - 125
Trichlorofluoromethane	ug/L	50	0	47.6	95		60 - 145
Vinyl chloride	ug/L	50	0	49	98		50 - 145
cis-1,2-Dichloroethene	ug/L	50	0	52.4	105		70 - 125
cis-1,3-Dichloropropene	ug/L	50	0	52.9	106		70 - 130
m,p-Xylene	ug/L	100	0	103	103		75 - 130
n-Butylbenzene	ug/L	50	0	51.4	103		70 - 135
n-Propylbenzene	ug/L	50	0	52.8	106		70 - 130
o-Xylene	ug/L	50	0	53.6	107		75 - 130
sec-Butylbenzene	ug/L	50	0	54.7	109		70 - 125
tert-Butyl methyl ether (MTBE)	ug/L	50	0	54	108		65 - 125
tert-Butylbenzene	ug/L	50	0	53.9	108		70 - 130
trans-1,2-Dichloroethene	ug/L	50	0	54	108		60 - 140
trans-1,3-Dichloropropene	ug/L	50	0	51.1	102		55 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466778

SAMPLE NO. : 994450

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
1,1,1,2-Tetrachloroethane	ug/L	50	47.3	95		4		80 - 130	0 - 30
1,1,1-Trichloroethane	ug/L	50	49	98		7		65 - 130	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	50	41	82		3		65 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	50	46.3	93		7		75 - 125	0 - 30
1,1-Dichloroethane	ug/L	50	49.2	98		8		70 - 135	0 - 30
1,1-Dichloroethene	ug/L	50	44.1	88		9		70 - 130	0 - 30
1,1-Dichloropropene	ug/L	50	48.2	96		6		75 - 130	0 - 30
1,2,3-Trichlorobenzene	ug/L	50	51.8	104		7		55 - 140	0 - 30
1,2,3-Trichloropropane	ug/L	50	44.7	89		7		75 - 125	0 - 30
1,2,4-Trichlorobenzene	ug/L	50	53.2	106		6		65 - 135	0 - 30
1,2,4-Trimethylbenzene	ug/L	50	51.2	102		5		75 - 130	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	50	46	92		9		50 - 130	0 - 30
1,2-Dibromoethane	ug/L	50	47.4	95		7		80 - 120	0 - 30
1,2-Dichlorobenzene	ug/L	50	48.3	97		8		70 - 120	0 - 30
1,2-Dichloroethane	ug/L	50	45.3	91		7		70 - 130	0 - 30
1,2-Dichloropropane	ug/L	50	50.2	100		5		75 - 125	0 - 30
1,3,5-Trimethylbenzene	ug/L	50	50.7	101		4		75 - 130	0 - 30
1,3-Dichlorobenzene	ug/L	50	50.1	100		5		75 - 125	0 - 30
1,3-Dichloropropane	ug/L	50	48.7	97		7		75 - 125	0 - 30
1,4-Dichlorobenzene	ug/L	50	51.1	102		6		75 - 125	0 - 30
2,2-Dichloropropane	ug/L	50	52.1	104		6		70 - 135	0 - 30
2-Butanone	ug/L	50	41.3	83		17		30 - 150	0 - 30
2-Chlorotoluene	ug/L	50	48.8	98		4		75 - 125	0 - 30
2-Hexanone	ug/L	50	44.5	89		16		55 - 130	0 - 30
4-Chlorotoluene	ug/L	50	50.5	101		4		75 - 130	0 - 30
4-Isopropyltoluene	ug/L	50	54	108		4		75 - 130	0 - 30
4-Methyl-2-pentanone	ug/L	50	45	90		11		60 - 135	0 - 30
Acetone	ug/L	50	37.5	75		22		40 - 140	0 - 30
Benzene	ug/L	50	47.3	95		9		80 - 120	0 - 30
Bromobenzene	ug/L	50	50.2	100		4		75 - 125	0 - 30
Bromochloromethane	ug/L	50	46.4	93		5		65 - 130	0 - 30
Bromodichloromethane	ug/L	50	46.2	92		3		75 - 120	0 - 30
Bromoform	ug/L	50	43.6	87		7		70 - 130	0 - 30
Bromomethane	ug/L	50	48.4	97		10		30 - 145	0 - 30
Carbon disulfide	ug/L	50	40.2	80		6		35 - 160	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Analytical Batch: 466778

Carbon tetrachloride	ug/L	50	46	92		6		65 - 140	0 - 30
Chlorobenzene	ug/L	50	48.1	96		7		80 - 120	0 - 30
Chloroethane	ug/L	50	50	100		4		60 - 135	0 - 30
Chloroform	ug/L	50	45.6	91		7		65 - 135	0 - 30
Chloromethane	ug/L	50	47.3	95		4		40 - 125	0 - 30
Dibromomethane	ug/L	50	46.6	93		6		75 - 125	0 - 30
Dichlorodifluoromethane	ug/L	50	37	74		9		30 - 155	0 - 30
Ethylbenzene	ug/L	50	46.6	93		7		75 - 125	0 - 30
Hexachlorobutadiene	ug/L	50	58.3	117		1		50 - 140	0 - 30
Isopropylbenzene (Cumene)	ug/L	50	49.6	99		8		75 - 125	0 - 30
Methylene chloride	ug/L	50	48.4	97		8		55 - 140	0 - 30
Naphthalene	ug/L	50	49.3	99		9		55 - 140	0 - 30
Styrene	ug/L	50	49.9	100		8		65 - 135	0 - 30
Tetrachloroethene	ug/L	50	48.3	97		7		45 - 150	0 - 30
Toluene	ug/L	50	48.5	97		9		75 - 120	0 - 30
Trichloroethene	ug/L	50	49.7	99		8		70 - 125	0 - 30
Trichlorofluoromethane	ug/L	50	43.3	87		9		60 - 145	0 - 30
Vinyl chloride	ug/L	50	45.1	90		8		50 - 145	0 - 30
cis-1,2-Dichloroethene	ug/L	50	49.1	98		7		70 - 125	0 - 30
cis-1,3-Dichloropropene	ug/L	50	53.1	106		4		70 - 130	0 - 30
m,p-Xylene	ug/L	100	94.8	95		8		75 - 130	0 - 30
n-Butylbenzene	ug/L	50	49	98		5		70 - 135	0 - 30
n-Propylbenzene	ug/L	50	50.7	101		4		70 - 130	0 - 30
o-Xylene	ug/L	50	49.7	99		8		75 - 130	0 - 30
sec-Butylbenzene	ug/L	50	52	104		5		70 - 125	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	50	49.7	99		8		65 - 125	0 - 30
tert-Butylbenzene	ug/L	50	51.3	103		5		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/L	50	49.6	99		8		60 - 140	0 - 30
trans-1,3-Dichloropropene	ug/L	50	52.2	104		2		55 - 140	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 64 outside limits

Spike Recovery: 0 out of 128 outside limits

FORM III VOA-1

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB992648

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111002/h2067

Lab Sample ID: 992648 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Analyzed: 10/02/11 Time: 1303

Instrument ID: MSV12 Matrix: Water

Heated Purge: N

Level:

Prep Batch: Analytical Batch: 466398

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS992649	992649	2111002/h2064L	10/02/11	1144
2.	LCSD992650	992650	2111002/h2065	10/02/11	1206
3.	MA02 MW001D	21109280407	2111002/h2090	10/02/11	2133
4.	FD-1	21109280408	2111002/h2091	10/02/11	2154
5.	TB-2	21109280409	2111002/h2092	10/02/11	2215

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB992654

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111002p/c7812 Lab Sample ID: 992654 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 10/02/11 Time: 2007

Instrument ID: MSV7 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 466401

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS992655	992655	2111002p/c7809	10/02/11	1904
2.	LCSD992656	992656	2111002p/c7810	10/02/11	1925
3.	MA01MW003	21109280402	2111002p/c7813	10/02/11	2045
4.	MA01MW001	21109280401	2111002p/c7814	10/02/11	2106
5.	MA01MW003-MS	21109280403	2111002p/c7815	10/02/11	2127
6.	MA01MW003-MSD	21109280404	2111002p/c7816	10/02/11	2148
7.	TB-1	21109280405	2111002p/c7818	10/02/11	2230
8.	MA01-MW004	21109280411	2111002p/c7819	10/02/11	2251
9.	MA01-MW002	21109280412	2111002p/c7820	10/02/11	2312
10.	TB-4	21109280413	2111002p/c7821	10/02/11	2332

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB992820

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111003/c7830

Lab Sample ID: 992820 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 10/03/11 Time: 0840

Instrument ID: MSV7 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 466441

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS992821	992821	2111003/c7828L	10/03/11	0759
2.	MWQ-23	21109280410	2111003/c7839	10/03/11	1345

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB993481

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111005/h2170 Lab Sample ID: 993481 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm) Date Analyzed: 10/05/11 Time: 0902

Instrument ID: MSV12 Matrix: Water Heated Purge: N

Level:

Prep Batch: Analytical Batch: 466593

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS993482	993482	2111005/h2166L	10/05/11	0700
2.	LCSD993483	993483	2111005/h2167	10/05/11	0759
3.	EB-1	21110010504	2111005/h2172	10/05/11	1037
4.	TB-6	21110010507	2111005/h2173	10/05/11	1058

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB994448

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111007/h2284D

Lab Sample ID: 994448 Date Extracted:

GC Column: RTX-VMS-30 ID: .25 (mm)

Date Analyzed: 10/07/11 Time: 1019

Instrument ID: MSV12 Matrix: Water

Heated Purge: N

Level:

Prep Batch: Analytical Batch: 466778

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS994449	994449	2111007/h2279D	10/07/11	0704
2.	LCSD994450	994450	2111007/h2280D	10/07/11	0759
3.	M114MW004	21110010501	2111007/h2288	10/07/11	1235
4.	M114MW001	21110010502	2111007/h2289	10/07/11	1256
5.	TB-5	21110010503	2111007/h2290	10/07/11	1317
6.	M114MW002	21110010505	2111007/h2292	10/07/11	1419
7.	M114MW003	21110010506	2111007/h2293	10/07/11	1441

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111002p/c7797 BFB Injection Date: 10/02/11

Instrument ID: MSV7 BFB Injection Time: 1413

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466401

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17.54	(	)	
75	30.0 - 60.0% of mass 95	49.96	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.59	(	)	
173	Less than 2.0% of mass 174	.69	(.75	)	1
174	50.0 - 120.0% of mass 95	92.66	(	)	
175	5.0 - 9.0% of mass 174	6.96	(7.52	)	1
176	95.0 - 101.0% of mass 174	90.52	(97.7	)	1
177	5.0 - 9.0% of mass 176	6.47	(7.15	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V7STD001	1203	2111002p/c7800	10/02/11	1556
2.	V7STD005	1204	2111002p/c7801	10/02/11	1617
3.	V7STD010	1205	2111002p/c7802	10/02/11	1638
4.	V7STD020	1206	2111002p/c7803	10/02/11	1658
5.	V7STD050	1207	2111002p/c7804	10/02/11	1719
6.	V7STD100	1208	2111002p/c7805	10/02/11	1740
7.	V7STD200	1209	2111002p/c7806	10/02/11	1801
8.	8260ICV	1600	2111002p/c7808	10/02/11	1843
9.	LCS992655	992655	2111002p/c7809	10/02/11	1904
10.	LCSD992656	992656	2111002p/c7810	10/02/11	1925
11.	MB992654	992654	2111002p/c7812	10/02/11	2007
12.	MA01MW003	21109280402	2111002p/c7813	10/02/11	2045
13.	MA01MW001	21109280401	2111002p/c7814	10/02/11	2106
14.	MA01MW003-MS	21109280403	2111002p/c7815	10/02/11	2127
15.	MA01MW003-MSD	21109280404	2111002p/c7816	10/02/11	2148
16.	TB-1	21109280405	2111002p/c7818	10/02/11	2230

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111002p/c7797 BFB Injection Date: 10/02/11

Instrument ID: MSV7 BFB Injection Time: 1413

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466401

17.	MA01-MW004	21109280411	2111002p/c7819	10/02/11	2251
18.	MA01-MW002	21109280412	2111002p/c7820	10/02/11	2312
19.	TB-4	21109280413	2111002p/c7821	10/02/11	2332

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111003/c7826 BFB Injection Date: 10/03/11

Instrument ID: MSV7 BFB Injection Time: 0633

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466441

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*			
50	15.0 - 40.0% of mass 95	18.83	(	)	
75	30.0 - 60.0% of mass 95	51.05	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.76	(	)	
173	Less than 2.0% of mass 174	.47	(.54	)	1
174	50.0 - 120.0% of mass 95	87.85	(	)	
175	5.0 - 9.0% of mass 174	6	(6.83	)	1
176	95.0 - 101.0% of mass 174	87.65	(99.78	)	1
177	5.0 - 9.0% of mass 176	5.57	(6.36	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	V7STD050	1400	2111003/c7828D	10/03/11	0759
2.	LCS992821	992821	2111003/c7828L	10/03/11	0759
3.	MB992820	992820	2111003/c7830	10/03/11	0840
4.	MWQ-23	21109280410	2111003/c7839	10/03/11	1345

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2110921/h1752d BFB Injection Date: 09/21/11

Instrument ID: MSV12 BFB Injection Time: 1038

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 465751

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	21.75	(	)	
75	30.0 - 60.0% of mass 95	51.07	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.87	(	)	
173	Less than 2.0% of mass 174	1.25	(1.3	)	1
174	50.0 - 120.0% of mass 95	96.66	(	)	
175	5.0 - 9.0% of mass 174	7.18	(7.43	)	1
176	95.0 - 101.0% of mass 174	92.56	(95.76	)	1
177	5.0 - 9.0% of mass 176	6.1	(6.6	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V12STD001	1203	2110921/h1753d	09/21/11	1123
2.	V12STD005	1204	2110921/h1754d	09/21/11	1147
3.	V12STD010	1205	2110921/h1755d	09/21/11	1208
4.	V12STD020	1206	2110921/h1756d	09/21/11	1229
5.	V12STD050	1207	2110921/h1757d	09/21/11	1251
6.	V12STD100	1208	2110921/h1758d	09/21/11	1324
7.	V12STD200	1209	2110921/h1759d	09/21/11	1351
8.	ICV	1600	2110921/h1760d	09/21/11	1601

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111002/h2063 BFB Injection Date: 10/02/11

Instrument ID: MSV12 BFB Injection Time: 1105

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466398

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*			
50	15.0 - 40.0% of mass 95	20.01	(	)	
75	30.0 - 60.0% of mass 95	48.66	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.32	(	)	
173	Less than 2.0% of mass 174	.74	(.78	)	1
174	50.0 - 120.0% of mass 95	95.04	(	)	
175	5.0 - 9.0% of mass 174	7.13	(7.51	)	1
176	95.0 - 101.0% of mass 174	92.62	(97.46	)	1
177	5.0 - 9.0% of mass 176	5.87	(6.34	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	V12STD050	1400	2111002/h2064	10/02/11	1144
2.	LCS992649	992649	2111002/h2064L	10/02/11	1144
3.	LCSD992650	992650	2111002/h2065	10/02/11	1206
4.	MB992648	992648	2111002/h2067	10/02/11	1303
5.	MA02 MW001D	21109280407	2111002/h2090	10/02/11	2133
6.	FD-1	21109280408	2111002/h2091	10/02/11	2154
7.	TB-2	21109280409	2111002/h2092	10/02/11	2215

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111005/h2165 BFB Injection Date: 10/05/11

Instrument ID: MSV12 BFB Injection Time: 0604

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466593

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*			
50	15.0 - 40.0% of mass 95	19.74	(	)	
75	30.0 - 60.0% of mass 95	48.44	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.45	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 120.0% of mass 95	93.62	(	)	
175	5.0 - 9.0% of mass 174	7.12	(7.61	)	1
176	95.0 - 101.0% of mass 174	90.63	(96.81	)	1
177	5.0 - 9.0% of mass 176	7.47	(8.25	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	V12STD050	1400	2111005/h2166	10/05/11	0700
2.	LCS993482	993482	2111005/h2166L	10/05/11	0700
3.	LCSD993483	993483	2111005/h2167	10/05/11	0759
4.	1400	1400	2111005/h2168	10/05/11	0820
5.	MB993481	993481	2111005/h2170	10/05/11	0902
6.	EB-1	21110010504	2111005/h2172	10/05/11	1037
7.	TB-6	21110010507	2111005/h2173	10/05/11	1058

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID: 2111007/h2278D BFB Injection Date: 10/07/11

Instrument ID: MSV12 BFB Injection Time: 0623

GC Column: RTX-VMS-30 ID: .25 (mm)

Analytical Batch: 466778

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
50	15.0 - 40.0% of mass 95	20.86 ( )
75	30.0 - 60.0% of mass 95	50.54 ( )
95	Base Peak, 100% relative abundance	100 ( )
96	5.0 -9.0% of mass 95	6.87 ( )
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	97.01 ( )
175	5.0 - 9.0% of mass 174	7.13 (7.36) 1
176	95.0 - 101.0% of mass 174	97.23 (100.2) 1
177	5.0 - 9.0% of mass 176	6.26 (6.44) 2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	1400	1400	2111007/h2279D	10/07/11	0704
2.	LCS994449	994449	2111007/h2279D	10/07/11	0704
3.	LCSD994450	994450	2111007/h2280D	10/07/11	0759
4.	MB994448	994448	2111007/h2284D	10/07/11	1019
5.	M114MW004	21110010501	2111007/h2288	10/07/11	1235
6.	M114MW001	21110010502	2111007/h2289	10/07/11	1256
7.	TB-5	21110010503	2111007/h2290	10/07/11	1317
8.	M114MW002	21110010505	2111007/h2292	10/07/11	1419
9.	M114MW003	21110010506	2111007/h2293	10/07/11	1441

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Calibration File Names:
Level 3: /var/chem/msv7.i/2111002p.s.b/c7800D.d
Level 4: /var/chem/msv7.i/2111002p.s.b/c7801D.d
Level 5: /var/chem/msv7.i/2111002p.s.b/c7802D.d
Level 6: /var/chem/msv7.i/2111002p.s.b/c7803D.d
Level 7: /var/chem/msv7.i/2111002p.s.b/c7804D.d
Level 8: /var/chem/msv7.i/2111002p.s.b/c7805D.d
Level 9: /var/chem/msv7.i/2111002p.s.b/c7806D.d

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
1 Dichlorodifluoromethane	0.40168	0.37243	0.34285	0.34725	0.34992	0.34130						
	0.31659						AVRG		0.35315		7.62891	
2 Chloromethane ++	0.24698	0.22202	0.20752	0.20401	0.22581	0.24659						
	0.23269						AVRG		0.22652		7.53547	
3 Vinyl Chloride +	0.24434	0.24079	0.22520	0.22975	0.23547	0.23738						
	0.22095						AVRG		0.23341		3.62695	
5 1-3 Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
6 Bromomethane	1234	5178	11312	27315	83155	199250						
	389943						LINR	0.03566	0.11212		0.99627	
4 2-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
7 Chloroethane	2913	13776	26105	45939	102877	213523						
	413710						LINR	-0.08866	0.11537		0.99696	
8 Trichlorofluoromethane	0.49558	0.48257	0.44431	0.44871	0.44506	0.43495						
	0.39850						AVRG		0.44995		7.07191	
163 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
9 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
10 1,1-Dichloroethene +	0.23185	0.21348	0.20378	0.20092	0.20966	0.20635						
	0.19531						AVRG		0.20876		5.63131	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
12 1,1,2Trichlotrifluoroethane	0.28298	0.24054	0.23139	0.22849	0.23837	0.23299						
	0.21545						AVRG		0.23860		8.88318	
11 Carbon Disulfide	12067	42573	79472	165659	425426	904750						
	1876606						LINR	-0.01228	0.52573		0.99951	
13 Methyl Iodide	1454	6851	17358	44623	175751	431847						
	895722						LINR	0.08874	0.25793		0.99745	
14 Acrolein	0.01476	0.01694	0.01612	0.01672	0.01676	0.01720						
	0.01617						AVRG		0.01638		4.96662	
15 Allyl chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
16 Methylene Chloride	9029	31078	56449	109648	275071	532285						
	1070005						LINR	-0.06874	0.29825		0.99803	
17 Acetone	+++++	0.15518	0.13971	0.12148	0.12471	0.11653						
	0.10496						AVRG		0.12709		14.01697	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
18 trans-1,2-Dichloroethene	0.43214	0.38415	0.37680	0.36754	0.37707	0.36627						
	0.33891						AVRG		0.37755		7.44833	
19 Methyl Acetate	0.20937	0.17778	0.20534	0.17662	0.18304	0.17433						
	0.15933						AVRG		0.18369		9.67344	
20 Hexane	0.47915	0.46084	0.48750	0.48730	0.50222	0.48120						
	0.45230						AVRG		0.47864		3.54468	
21 MTBE	0.67114	0.66504	0.68136	0.69771	0.69936	0.69539						
	0.66751						AVRG		0.68250		2.19115	
22 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
23 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
24 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
25 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
26 1,1-Dichloroethane ++	0.49673	0.48768	0.48644	0.47498	0.47873	0.46179						
	0.43151						AVRG		0.47398		4.58736	
27 Acrylonitrile	0.08786	0.08743	0.09051	0.09141	0.09069	0.08788						
	0.08325						AVRG		0.08843		3.15742	
28 Vinyl Acetate	2415	11393	23974	49544	166842	371301						
	812533						LINR	0.06042	0.22966		0.99931	
29 cis-1,2-Dichloroethene	0.36201	0.35084	0.34059	0.35937	0.36758	0.35879						
	0.33827						AVRG		0.35392		3.13227	
30 2,2-Dichloropropane	0.39369	0.37765	0.36714	0.36573	0.40923	0.40518						
	0.39080						AVRG		0.38706		4.49682	
34 Bromochloromethane	0.14767	0.14740	0.15048	0.14696	0.14674	0.14396						
	0.12523						AVRG		0.14406		5.91508	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
32 Cyclohexane	0.35183	0.37693	0.39103	0.41829	0.43845	0.42159						
	0.39716						AVRG		0.39933		7.38443	
35 Chloroform +	0.56552	0.60011	0.56480	0.54490	0.54311	0.52163						
	0.49526						AVRG		0.54790		6.15156	
37 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
164 Ethyl Tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
42 sec-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
36 Carbon Tetrachloride	0.41997	0.41022	0.39238	0.40907	0.42525	0.42752						
	0.41173						AVRG		0.41373		2.88608	
38 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
41 1,1,1-Trichloroethane	0.49944	0.44464	0.44837	0.45860	0.48025	0.47176						
	0.45400						AVRG		0.46529		4.22309	
44 2-Butanone	0.16339	0.12674	0.12405	0.12516	0.13081	0.12872						
	0.12095						AVRG		0.13140		11.00490	
166 tert-amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
43 1,1-Dichloropropene	0.32980	0.33365	0.33878	0.35678	0.38038	0.37307						
	0.35828						AVRG		0.35296		5.55819	
45 2,2,4 Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
31 Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
46 Benzene	1.09600	1.03952	1.05504	1.05006	1.07473	1.05967						
	1.01088						AVRG		1.05513		2.53807	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
47 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
48 Methylacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
167 Tert-amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
52 Isobutyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
51 1,2-Dichloroethane	0.40960	0.41537	0.42014	0.41118	0.41314	0.40285						
	0.37106						AVRG		0.40619		4.03118	
55 Methyl Cyclohexane	0.46473	0.40562	0.40471	0.42131	0.44127	0.43441						
	0.41809						AVRG		0.42716		5.00923	
165 Tert-butyl formate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
56 Trichloroethene	0.31325	0.31323	0.31117	0.31019	0.30936	0.30733						
	0.29810						AVRG		0.30895		1.69148	
49 1,4-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
33 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
57 Dibromomethane	0.16107	0.15789	0.16126	0.15740	0.16473	0.16511						
	0.15810						AVRG		0.16079		1.99354	
58 2-3 Dichloro-1-Proprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
59 1,2-Dichloropropane +	0.22876	0.24578	0.24272	0.24535	0.25580	0.24993						
	0.23695						AVRG		0.24361		3.60216	
60 Bromodichloromethane	0.33766	0.36287	0.37250	0.37096	0.39148	0.39256						
	0.37433						AVRG		0.37176		4.99731	

4002561512

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2011 15:56
End Cal Date : 02-OCT-2011 18:01
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
61 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
62 1,4- Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
65 1-Bromo-2-chloroethane	221	3242	6724	13465	37167	77167						
	164035						LINR	0.00652	0.04601		0.99980	
64 2-Chloroethyl vinyl ether	541	5669	12488	30610	97250	220079						
	467606						LINR	0.05728	0.13287		0.99927	
67 cis-1,3-Dichloropropene	0.27545	0.32647	0.35552	0.37978	0.41319	0.41769						
	0.40802						AVRG		0.36802		14.33463	
69 Toluene +	3.38263	3.00015	2.80485	2.78910	2.82150	2.77017						
	2.75884						AVRG		2.90389		7.79146	
81 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2	
63 Methyldisulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
73 4-methyl-2-pentanone	+++++	0.15553	0.16405	0.18349	0.20574	0.21424	0.20265	AVRG		0.18762		12.75941	
71 Tetrachloroethene	0.75956	0.64364	0.60363	0.59707	0.61937	0.60380	0.61750	AVRG		0.63494		8.98708	
74 trans-1,3-Dichloropropene	0.27848	0.30307	0.32895	0.35248	0.39229	0.40004	0.38864	AVRG		0.34914		13.61018	
77 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
76 1,1,2-Trichloroethane	0.58072	0.59817	0.59396	0.59464	0.57819	0.57628	0.57001	AVRG		0.58457		1.86146	
78 Dibromochloromethane	0.64693	0.62486	0.62234	0.66338	0.69842	0.72977	0.74556	AVRG		0.67589		7.33130	

GCAL, Inc.

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Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
79 1,3-Dichloropropane	0.96093	0.99483	0.97930	0.98264	1.02533	1.00508						
	0.99522						AVRG		0.99190		2.06402	
70 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
80 1,2-Dibromoethane(EDB)	0.55171	0.55595	0.55221	0.56875	0.58724	0.59556						
	0.60215						AVRG		0.57337		3.73720	
168 3,3 Dimethyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
83 2-Hexanone	1040	7312	16188	37277	122521	274461						
	577538						LINR	0.05733	0.40278		0.99949	
75 Total 1,2-Dichloroethene	0.39707	0.36749	0.35869	0.36345	0.37232	0.36253						
	0.33859						AVRG		0.36574		4.77564	
86 1-Chlorohexane	0.33412	0.27661	0.27988	0.29627	0.32244	0.33118						
	0.32141						AVRG		0.30884		7.83850	

GCAL, Inc.

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Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
85 Chlorobenzene ++	2.33893	2.02512	1.93284	1.89156	1.87492	1.87649						
	1.85167						AVRG		1.97022		8.75365	
39 1,3-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
87 Ethylbenzene +	0.89079	0.94577	0.94980	0.96578	1.00147	0.99972						
	0.99235						AVRG		0.96367		4.10283	
88 1,1,1,2-Tetrachloroethane	0.68311	0.67076	0.65655	0.64484	0.67151	0.68837						
	0.69002						AVRG		0.67217		2.50006	
82 1-3 Dichloropropene total	0.27696	0.31477	0.34224	0.36613	0.40274	0.40887						
	0.39833						AVRG		0.35858		13.92716	
89 p,m-Xylene	11263	63727	137798	296857	794829	1680191						
	3556642						LINR	0.02932	1.22475		0.99999	
90 o-Xylene	3513	23844	55849	129831	373929	812990						
	1725475						LINR	0.03946	1.19572		0.99988	

GCAL, Inc.

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Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
91 Styrene	5941	44564	106902	239271	644575	1385999						
	2918653						LINR	0.02350	2.01694		0.99997	
92 Bromoform ++	0.33277	0.39865	0.42286	0.42247	0.46623	0.49039						
	0.51970						AVRG		0.43615		14.28332	
93 Isopropylbenzene	10371	68233	158970	362162	999808	2169683						
	4643941						LINR	0.03593	3.20901		0.99989	
94 2-methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
96 Bromobenzene	1.34761	1.19119	1.19817	1.15156	1.18029	1.12280						
	1.03313						AVRG		1.17497		8.07585	
54 1,2-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
97 n-Propylbenzene	2.89523	2.97241	3.14414	3.20243	3.35572	3.25749						
	3.02822						AVRG		3.12224		5.27150	

GCAL, Inc.

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Target Version : 3.50
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Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
98 1,1,2,2-Tetrachloroethane++	0.75347 0.58975	0.71170	0.69664	0.67551	0.67517	0.64374	AVRG		0.67800		7.65324	
99 2-Chlorotoluene	1.75645 1.84954	1.80442	1.91541	1.93788	2.01040	1.98883	AVRG		1.89471		4.99969	
100 1,2,3-Trichloropropane	0.59120 0.49561	0.62138	0.60610	0.59406	0.58559	0.55341	AVRG		0.57819		7.25356	
102 1,3,5-Trimethylbenzene	1.57883 2.22564	1.98660	2.20794	2.30432	2.39714	2.40138	AVRG		2.15741		13.51003	
66 3-ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
103 Cyclohexanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
101 trans-1,4-Dichloro-2-Butene	0.13841 0.16936	0.16104	0.16159	0.17214	0.19301	0.19010	AVRG		0.16938		11.00608	

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Integrator : HP RTE
Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
104 4-Chlorotoluene	1.91381	1.99549	2.05741	2.12572	2.17603	2.12840						
	1.99038						AVRG		2.05532		4.55957	
105 tert-butylbenzene	0.89645	1.07066	1.20714	1.28902	1.33763	1.33858						
	1.23721						AVRG		1.19667		13.48761	
110 p-Isopropyltoluene	9291	64185	143090	318154	860889	1920577						
	4248162						LINR	0.00832	2.47778		0.99967	
106 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
107 1,2,4-Trimethylbenzene	8301	67285	148934	319355	848962	1843383						
	3974723						LINR	-0.01474	2.31900		0.99899	
108 sec-Butylbenzene	2.13131	2.62443	2.76446	2.83823	2.96051	2.93956						
	2.83189						AVRG		2.72720		10.47714	
109 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

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End Cal Date : 02-OCT-2011 18:01
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Method file : /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
113 1,3-Dichlorobenzene	1.60596	1.47299	1.45800	1.42476	1.44200	1.43865						
	1.39522						AVRG		1.46251		4.64167	
115 1,4-Dichlorobenzene	1.87705	1.57872	1.53086	1.50703	1.50044	1.50670						
	1.45565						AVRG		1.56521		9.09579	
117 n-Butylbenzene	1.57001	1.75543	1.92893	2.06440	2.23698	2.25149						
	2.13518						AVRG		1.99177		12.81841	
72 2-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
118 1,2-Dichlorobenzene	1.45513	1.31778	1.35175	1.33338	1.37994	1.39553						
	1.36304						AVRG		1.37094		3.32158	
112 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
119 1,2-Dibromo-3-Chloropropane	537	3145	7293	16833	47021	117662						
	277265						LINR	0.07030	0.16199		0.99888	

GCAL, Inc.

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Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
111 1-4 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
M 121 TOTAL XYLENE	14776	87571	193647	426688	1168758	2493181						
	5282117						LINR	-0.06565	1.03056		0.99809	
116 1-2 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
123 Benzal Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
120 Hexachlorobutadiene	0.54741	0.43809	0.41231	0.41541	0.46468	0.48375						
	0.48328						AVRG		0.46356		10.20293	
122 1,2,4-Trichlorobenzene	0.91475	0.70368	0.76681	0.81645	0.96858	1.03319						
	1.04101						AVRG		0.89207		14.85513	
124 Naphthalene	7991	36944	96989	246454	776200	1792221						
	4067522						LINR	0.05422	2.38961		0.99958	

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Cal Date : 04-Oct-2011 10:36 rjo

Compound	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
M 126 Total Diethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00 <-
125 1,2,3-Trichlorobenzene	0.80200 / 0.87624	0.68385	0.74916	0.77708	0.86185	0.88679	AVRG		0.80528		9.29009
$ 40 Dibromofluoromethane	0.26976 / 0.26545	0.27154	0.27487	0.27365	0.27707	0.26925	AVRG		0.27166		1.43854
50 1,2-Dichloroethane-d4	0.16441 / 0.15286	0.16369	0.16532	0.16155	0.16347	0.15522	AVRG		0.16093		3.03924
68 Toluene-d8	2.40244 / 2.30237	2.32358	2.29920	2.31744	2.28827	2.26770	AVRG		2.31443		1.85706
95 Bromofluorobenzene	0.78870 / 0.87938	0.79971	0.79172	0.81386	0.80684	0.83535	AVRG		0.81651		3.89787

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv7.i/2111002p.s.b/8260DODw7.m
Misc Info: MSV~22928~*1*JCK

Client SDG: 2111002p.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: JCK
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
1	Dichlorodifluoromethane	50.0	58.1	116.23	80-120	
2	Chloromethane ++	50.0	49.1	98.16	80-120	
3	Vinyl Chloride +	50.0	50.4	100.81	80-120	
6	Bromomethane	50.0	48.7	97.41	80-120	
7	Chloroethane	50.0	52.2	104.40	80-120	
8	Trichlorofluoromethane	50.0	48.3	96.60	80-120	
10	1,1-Dichloroethene +	50.0	47.9	95.82	80-120	
11	Carbon Disulfide	50.0	51.3	102.62	80-120	
12	1,1,2Trichlotrifluoroethane	50.0	48.6	97.17	80-120	
13	Methyl Iodide	50.0	37.8	75.62*	80-120	NT
14	Acrolein	250	227	90.95	80-120	
16	Methylene Chloride	50.0	48.9	97.75	80-120	
17	Acetone	50.0	53.6	107.21	80-120	
18	trans-1,2-Dichloroethene	50.0	48.2	96.49	80-120	
19	Methyl Acetate	50.0	51.3	102.65	80-120	
20	Hexane	50.0	51.9	103.89	80-120	
21	MTBE	50.0	53.5	107.09	80-120	
26	1,1-Dichloroethane ++	50.0	48.5	96.98	80-120	
27	Acrylonitrile	250	249	99.74	80-120	
28	Vinyl Acetate	50.0	41.5	83.08	80-120	
29	cis-1,2-Dichloroethene	50.0	50.8	101.52	80-120	
30	2,2-Dichloropropane	50.0	50.3	100.58	80-120	
32	Cyclohexane	50.0	52.3	104.55	80-120	
34	Bromochloromethane	50.0	53.0	105.95	80-120	
35	Chloroform +	50.0	49.6	99.29	80-120	
36	Carbon Tetrachloride	50.0	49.9	99.84	80-120	
41	1,1,1-Trichloroethane	50.0	49.5	99.06	80-120	
43	1,1-Dichloropropene	50.0	53.2	106.32	80-120	
44	2-Butanone	50.0	56.3	112.50	80-120	
46	Benzene	50.0	51.0	101.91	80-120	
51	1,2-Dichloroethane	50.0	49.8	99.70	80-120	
55	Methyl Cyclohexane	50.0	50.2	100.34	80-120	
56	Trichloroethene	50.0	51.3	102.54	80-120	

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
57	Dibromomethane	50.0	53.8	107.56	80-120
59	1,2-Dichloropropane +	50.0	53.2	106.41	80-120
60	Bromodichloromethane	50.0	52.4	104.78	80-120
64	2-Chloroethyl vinyl ether	50.0	49.6	99.16	80-120
67	cis-1,3-Dichloropropene	50.0	57.0	114.00	80-120
69	Toluene +	50.0	51.4	102.77	80-120
71	Tetrachloroethene	50.0	51.7	103.31	80-120
73	4-methyl-2-pentanone	50.0	59.1	118.10	80-120
74	trans-1,3-Dichloropropene	50.0	58.5	117.02	80-120
76	1,1,2-Trichloroethane	50.0	54.0	108.05	80-120
78	Dibromochloromethane	50.0	55.3	110.66	80-120
79	1,3-Dichloropropane	50.0	55.1	110.17	80-120
80	1,2-Dibromoethane(EDB)	50.0	56.3	112.61	80-120
83	2-Hexanone	50.0	58.4	116.87	80-120
85	Chlorobenzene ++	50.0	51.3	102.60	80-120
86	1-Chlorohexane	50.0	53.0	105.96	80-120
87	Ethylbenzene +	50.0	54.6	109.24	80-120
88	1,1,1,2-Tetrachloroethane	50.0	53.8	107.53	80-120
89	p,m-Xylene	100	107	106.86	80-120
90	o-Xylene	50.0	53.7	107.49	80-120
91	Styrene	50.0	54.1	108.16	80-120
92	Bromoform ++	50.0	59.1	118.25	80-120
93	Isopropylbenzene	50.0	51.5	103.08	80-120
96	Bromobenzene	50.0	50.7	101.33	80-120
97	n-Propylbenzene	50.0	54.8	109.53	80-120
98	1,1,2,2-Tetrachloroethane++	50.0	52.0	103.97	80-120
99	2-Chlorotoluene	50.0	54.0	107.98	80-120
100	1,2,3-Trichloropropane	50.0	52.4	104.84	80-120
102	1,3,5-Trimethylbenzene	50.0	57.5	115.05	80-120
101	trans-1,4-Dichloro-2-Butene	50.0	57.7	115.48	80-120
104	4-Chlorotoluene	50.0	53.9	107.78	80-120
105	tert-butylbenzene	50.0	56.7	113.49	80-120
107	1,2,4-Trimethylbenzene	50.0	54.4	108.73	80-120
108	sec-Butylbenzene	50.0	55.1	110.19	80-120
110	p-Isopropyltoluene	50.0	53.8	107.70	80-120
113	1,3-Dichlorobenzene	50.0	51.7	103.33	80-120
115	1,4-Dichlorobenzene	50.0	49.9	99.89	80-120
117	n-Butylbenzene	50.0	56.6	113.21	80-120
118	1,2-Dichlorobenzene	50.0	52.1	104.15	80-120
119	1,2-Dibromo-3-Chloropropane	50.0	51.9	103.81	80-120
120	Hexachlorobutadiene	50.0	52.2	104.45	80-120
122	1,2,4-Trichlorobenzene	50.0	59.7	119.34	80-120
124	Naphthalene	50.0	52.5	104.96	80-120
125	1,2,3-Trichlorobenzene	50.0	57.1	114.18	80-120

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i Injection Date: 03-OCT-2011 07:59
Lab File ID: c7828D.d Init. Cal. Date(s): 02-OCT-2011 02-OCT-2011
Analysis Type: WATER Init. Cal. Times: 15:56 18:01
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/msv7.i/2111003.s.b/8260DODw7.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.35315	0.35215	0.35215	0.010	-0.28305	20.00000	Averaged
2 Chloromethane ++	0.22652	0.19418	0.19418	0.100	-14.27647	20.00000	Averaged
3 Vinyl Chloride +	0.23341	0.23457	0.23457	0.010	0.49442	20.00000	Averaged
6 Bromomethane	48.14736	50.00000	0.10397	0.010	-3.70529	20.00000	Linear
7 Chloroethane	57.03724	50.00000	0.14184	0.010	14.07449	20.00000	Linear
8 Trichlorofluoromethane	0.44995	0.46992	0.46992	0.010	4.43619	20.00000	Averaged
10 1,1-Dichloroethene +	0.20876	0.21316	0.21316	0.010	2.10349	20.00000	Averaged
12 1,1,2Trichlotrifluoroethane	0.23860	0.24696	0.24696	0.010	3.50311	20.00000	Averaged
11 Carbon Disulfide	53.21193	50.00000	0.56596	0.010	6.42386	20.00000	Linear
13 Methyl Iodide	47.13515	50.00000	0.22026	0.010	-5.72969	20.00000	Linear
14 Acrolein	0.01638	0.01555	0.01555	0.010	-5.06093	20.00000	Averaged
16 Methylene Chloride	55.86059	50.00000	0.35371	0.010	11.72119	20.00000	Linear
17 Acetone	0.12709	0.13073	0.13073	0.010	2.85880	20.00000	Averaged
18 trans-1,2-Dichloroethene	0.37755	0.39006	0.39006	0.010	3.31228	20.00000	Averaged
19 Methyl Acetate	0.18369	0.18789	0.18789	0.010	2.28932	20.00000	Averaged
20 Hexane	0.47864	0.51495	0.51495	0.010	7.58487	20.00000	Averaged
21 MTBE	0.68250	0.70101	0.70101	0.010	2.71214	20.00000	Averaged
26 1,1-Dichloroethane ++	0.47398	0.48093	0.48093	0.100	1.46550	20.00000	Averaged
27 Acrylonitrile	0.08843	0.08458	0.08458	0.010	-4.35822	20.00000	Averaged
28 Vinyl Acetate	55.02414	50.00000	0.23887	0.010	10.04828	20.00000	Linear
29 cis-1,2-Dichloroethene	0.35392	0.37633	0.37633	0.010	6.33141	20.00000	Averaged
30 2,2-Dichloropropane	0.38706	0.41616	0.41616	0.010	7.51681	20.00000	Averaged
34 Bromochloromethane	0.14406	0.15174	0.15174	0.010	5.33222	20.00000	Averaged
32 Cyclohexane	0.39933	0.45705	0.45705	0.010	14.45526	20.00000	Averaged
35 Chloroform +	0.54790	0.53297	0.53297	0.010	-2.72485	20.00000	Averaged
36 Carbon Tetrachloride	0.41373	0.49216	0.49216	0.010	18.95664	20.00000	Averaged
$ 40 Dibromofluoromethane	0.27166	0.27641	0.27641	0.010	1.74912	20.00000	Averaged
41 1,1,1-Trichloroethane	0.46529	0.49130	0.49130	0.010	5.58871	20.00000	Averaged
44 2-Butanone	0.13140	0.12774	0.12774	0.010	-2.78563	20.00000	Averaged
43 1,1-Dichloropropene	0.35296	0.38763	0.38763	0.010	9.82100	20.00000	Averaged
46 Benzene	1.05513	1.09040	1.09040	0.010	3.34263	20.00000	Averaged
$ 50 1,2-Dichloroethane-d4	0.16093	0.16140	0.16140	0.010	0.29011	20.00000	Averaged
51 1,2-Dichloroethane	0.40619	0.42251	0.42251	0.010	4.01756	20.00000	Averaged
55 Methyl Cyclohexane	0.42716	0.45478	0.45478	0.010	6.46510	20.00000	Averaged
56 Trichloroethene	0.30895	0.31284	0.31284	0.010	1.25980	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i Injection Date: 03-OCT-2011 07:59
Lab File ID: c7828D.d Init. Cal. Date(s): 02-OCT-2011 02-OCT-2011
Analysis Type: WATER Init. Cal. Times: 15:56 18:01
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/msv7.i/2111003.s.b/8260DODw7.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Dibromomethane	0.16079	0.16700	0.16700	0.010	3.85942	20.00000	Averaged
59 1,2-Dichloropropane +	0.24361	0.25484	0.25484	0.010	4.60886	20.00000	Averaged
60 Bromodichloromethane	0.37176	0.39420	0.39420	0.010	6.03635	20.00000	Averaged
65 1-Bromo-2-chloroethane	50.14538	50.00000	0.04584	0.010	0.29077	20.00000	Linear
64 2-Chloroethyl vinyl ether	43.44457	50.00000	0.10784	0.010	-13.11085	20.00000	Linear
67 cis-1,3-Dichloropropene	0.36802	0.41595	0.41595	0.010	13.02450	20.00000	Averaged
$ 68 Toluene-d8	2.31443	2.28928	2.28928	0.010	-1.08677	20.00000	Averaged
69 Toluene +	2.90389	2.86142	2.86142	0.010	-1.46244	20.00000	Averaged
73 4-methyl-2-pentanone	0.18762	0.19648	0.19648	0.010	4.72528	20.00000	Averaged
71 Tetrachloroethene	0.63494	0.62337	0.62337	0.010	-1.82184	20.00000	Averaged
74 trans-1,3-Dichloropropene	0.34914	0.39192	0.39192	0.010	12.25558	20.00000	Averaged
76 1,1,2-Trichloroethane	0.58457	0.58207	0.58207	0.010	-0.42793	20.00000	Averaged
78 Dibromochloromethane	0.67589	0.70197	0.70197	0.010	3.85742	20.00000	Averaged
79 1,3-Dichloropropane	0.99190	1.01487	1.01487	0.010	2.31502	20.00000	Averaged
80 1,2-Dibromoethane(EDB)	0.57337	0.58808	0.58808	0.010	2.56567	20.00000	Averaged
83 2-Hexanone	47.38158	50.00000	0.35860	0.010	-5.23685	20.00000	Linear
M 75 Total 1,2-Dichloroethene	0.36574	0.38319	0.38319	0.010	4.77307	20.00000	Averaged
86 1-Chlorohexane	0.30884	0.34119	0.34119	0.010	10.47438	20.00000	Averaged
85 Chlorobenzene ++	1.97022	1.94002	1.94002	0.300	-1.53291	20.00000	Averaged
87 Ethylbenzene +	0.96367	1.01759	1.01759	0.010	5.59508	20.00000	Averaged
88 1,1,1,2-Tetrachloroethane	0.67217	0.68791	0.68791	0.010	2.34273	20.00000	Averaged
M 82 1-3 Dichloropropene total	0.35858	0.40394	0.40394	0.010	12.65016	20.00000	Averaged
89 p,m-Xylene	104	100	1.25253	0.010	3.73453	20.00000	Linear
90 o-Xylene	50.98684	50.00000	1.17214	0.010	1.97369	20.00000	Linear
91 Styrene	50.74082	50.00000	1.99943	0.010	1.48164	20.00000	Linear
92 Bromoform ++	0.43615	0.45887	0.45887	0.100	5.20755	20.00000	Averaged
93 Isopropylbenzene	51.36465	50.00000	3.18128	0.010	2.72930	20.00000	Linear
$ 95 Bromofluorobenzene	0.81651	0.81623	0.81623	0.010	-0.03438	20.00000	Averaged
96 Bromobenzene	1.17497	1.19847	1.19847	0.010	2.00087	20.00000	Averaged
97 n-Propylbenzene	3.12224	3.49468	3.49468	0.010	11.92866	20.00000	Averaged
98 1,1,2,2-Tetrachloroethane++	0.67800	0.67049	0.67049	0.300	-1.10741	20.00000	Averaged
99 2-Chlorotoluene	1.89471	2.10324	2.10324	0.010	11.00617	20.00000	Averaged
100 1,2,3-Trichloropropane	0.57819	0.57346	0.57346	0.010	-0.81883	20.00000	Averaged
102 1,3,5-Trimethylbenzene	2.15741	2.54338	2.54338	0.010	17.89079	20.00000	Averaged
101 trans-1,4-Dichloro-2-Butene	0.16938	0.18804	0.18804	0.010	11.01645	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv7.i Injection Date: 03-OCT-2011 07:59
Lab File ID: c7828D.d Init. Cal. Date(s): 02-OCT-2011 02-OCT-2011
Analysis Type: WATER Init. Cal. Times: 15:56 18:01
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/msv7.i/2111003.s.b/8260DODw7.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
104 4-Chlorotoluene	2.05532	2.26341	2.26341	0.010	10.12453	20.00000	Averaged	
105 tert-butylbenzene	1.19667	1.43278	1.43278	0.010	19.73060	20.00000	Averaged	
110 p-Isopropyltoluene	53.67771	50.00000	2.63942	0.010	7.35541	20.00000	Linear	
107 1,2,4-Trimethylbenzene	54.89074	50.00000	2.58002	0.010	9.78147	20.00000	Linear	
108 sec-Butylbenzene	2.72720	3.14403	3.14403	0.010	15.28419	20.00000	Averaged	
113 1,3-Dichlorobenzene	1.46251	1.51031	1.51031	0.010	3.26804	20.00000	Averaged	
115 1,4-Dichlorobenzene	1.56521	1.57056	1.57056	0.010	0.34185	20.00000	Averaged	
117 n-Butylbenzene	1.99177	2.40577	2.40577	0.010	20.78552	20.00000	Averaged	<-
118 1,2-Dichlorobenzene	1.37094	1.43426	1.43426	0.010	4.61942	20.00000	Averaged	
119 1,2-Dibromo-3-Chloropropane	44.42699	50.00000	0.13255	0.010	-11.14603	20.00000	Linear	
M 121 TOTAL XYLENE	155	150	1.16308	0.010	3.14758	20.00000	Linear	
120 Hexachlorobutadiene	0.46356	0.52623	0.52623	0.010	13.51892	20.00000	Averaged	
122 1,2,4-Trichlorobenzene	0.89207	1.06088	1.06088	0.010	18.92414	20.00000	Averaged	
124 Naphthalene	50.34838	50.00000	2.27670	0.010	0.69676	20.00000	Linear	
125 1,2,3-Trichlorobenzene	0.80528	0.91808	0.91808	0.010	14.00773	20.00000	Averaged	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Calibration File Names:
Level 3: /var/chem/msv12.i/2110921.s.b/h1753d.d
Level 4: /var/chem/msv12.i/2110921.s.b/h1754d.d
Level 5: /var/chem/msv12.i/2110921.s.b/h1755d.d
Level 6: /var/chem/msv12.i/2110921.s.b/h1756d.d
Level 7: /var/chem/msv12.i/2110921.s.b/h1757d.d
Level 8: /var/chem/msv12.i/2110921.s.b/h1758d.d
Level 9: /var/chem/msv12.i/2110921.s.b/h1759d.d

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Dichlorodifluoromethane	2674	6605	19281	38252	106060	214633	463454	LINR	0.05618	0.37137		0.99880
2 Chloromethane ++	3207	9454	21827	42316	111479	235804	471456	LINR	0.02479	0.37943		0.99968
3 Vinyl Chloride +	2650	7933	21258	42321	115173	234698	496238	LINR	0.04661	0.39797		0.99933
5 1-3 Butadiene	0.35607	0.30215	0.26428	0.26731	0.26863	0.25804	0.25182	AVRG		0.28118		13.05203

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
6 Bromomethane	3313	5043	11215	19095	48341	94640						
	208785						LINR	0.02261	0.16504		0.99756	
7 Chloroethane	1626	5105	11798	23852	58933	104766						
	+++++						LINR	-0.02451	0.17019		0.99680	
4 2-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
8 Trichlorofluoromethane	3430	9319	24282	49486	133695	269887						
	566487						LINR	0.04040	0.45423		0.99951	
9 Ethyl Ether	0.21668	0.22609	0.21789	0.23386	0.22843	0.23817						
	0.25456						AVRG		0.23081		5.65508	
168 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
10 1,1-Dichloroethene +	2151	5988	14691	29596	77965	160407						
	334048						LINR	0.03729	0.26784		0.99955	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	200 Level 9										
11 Carbon Disulfide	7562	19715	46481	93711	249993	520273					
	1078993						LINR	0.03915	0.86598		0.99952
12 1,1,2Trichlotrifluoroethane	2108	5555	14543	29281	80323	164729					
	353005						LINR	0.05440	0.28298		0.99893
13 Methyl Iodide	0.26130	0.17292	0.20475	0.20632	0.22551	0.22914					
	0.25321						AVRG		0.22188		13.68736
14 Acrolein	0.04418	0.03969	0.03419	0.04518	0.04838	0.04673					
	0.04877						AVRG		0.04387		11.97153
15 Allyl chloride	0.27297	0.25319	0.23938	0.25001	0.24551	0.23920					
	0.24365						AVRG		0.24913		4.69990
16 Methylene Chloride	3865	12407	26311	53429	135625	267482					
	552314						LINR	0.01435	0.44112		0.99983
17 Acetone	+++++	0.27232	0.26072	0.26731	0.26814	0.25680					
	0.26674						AVRG		0.26534		2.10948

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
18 trans-1,2-Dichloroethene	0.47556 0.44195	0.31922	0.38678	0.38282	0.41595	0.43151	AVRG		0.40768		12.38613
19 Methyl Acetate	0.46372 0.35014	0.32336	0.36554	0.35025	0.34384	0.33043	AVRG		0.36104		13.11410
20 Hexane	3254 498353	9055	22598	44953	126016	255299	LINR	0.01431	0.40263		0.99955
21 MTBE	1.06479 0.93376	0.79277	0.84755	0.86505	0.89722	0.88503	AVRG		0.89802		9.53295
22 tert-Butyl Alcohol	0.06283 0.05491	0.05887	0.05929	0.05914	0.05861	0.05892	AVRG		0.05894		3.89669
23 Acetonitrile	0.07428 0.06064	0.07653	0.07366	0.07552	0.06935	0.07379	AVRG		0.07197		7.61071
24 Isopropyl Ether	0.93216 0.99026	0.87538	0.90705	0.93444	0.95834	1.00335	AVRG		0.94300		4.77548

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
25 Chloroprene	0.33960	0.36105	0.37780	0.38749	0.38703	0.39852						
	0.40487						AVRG		0.37948		5.95232	
26 1,1-Dichloroethane ++	0.72170	0.47156	0.53385	0.53020	0.56203	0.56392						
	0.59371						AVRG		0.56814		13.67818	
27 Acrylonitrile	0.15040	0.13312	0.12633	0.15713	0.16253	0.15968						
	0.16348						AVRG		0.15038		9.89142	
28 Vinyl Acetate	2337	9831	13293	42090	101805	209791						
	462054						LINR	0.06375	0.36969		0.99790	
29 cis-1,2-Dichloroethene	0.50208	0.34753	0.37643	0.37897	0.38998	0.38452						
	0.39768						AVRG		0.39674		12.36664	
165 Ethyl Tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
30 2,2-Dichloropropane	3354	9585	22212	45230	115379	226001						
	474463						LINR	0.02198	0.37867		0.99958	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	200 Level 9										
32 Cyclohexane	3741	10105	28526	59567	168826	347963					
	750761						LINR	0.06556	0.60310		0.99875
34 Bromochloromethane	0.18678	0.14311	0.15464	0.15130	0.15829	0.15498					
	0.16057						AVRG		0.15853		8.61862
35 Chloroform +	5903	16846	35106	69567	177932	354132					
	727615						LINR	0.01301	0.58124		0.99984
36 Carbon Tetrachloride	3096	8710	22107	43550	116511	240036					
	510595						LINR	0.04797	0.40901		0.99909
37 Ethyl Acetate	0.25296	0.24768	0.25048	0.25717	0.24131	0.25735					
	0.26044						AVRG		0.25248		2.61266
38 Tetrahydrofuran	0.19114	0.19221	0.19853	0.20783	0.19402	0.20561					
	0.20249						AVRG		0.19883		3.35217
41 1,1,1-Trichloroethane	0.55055	0.33649	0.41298	0.41513	0.44516	0.45378					
	0.47812						AVRG		0.44174		14.88270

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-AUG-2011 14:41
End Cal Date : 21-SEP-2011 13:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2	
42 sec-butanol	381	1973	4833	8369	21756	46118	96802	LINR	0.08327	0.07125		0.99349	
43 1,1-Dichloropropene	3017	8809	22287	46883	128489	258930	536077	LINR	0.03763	0.43072		0.99973	
44 2-Butanone	+++++	0.27360	0.28527	0.30170	0.31628	0.30540	0.32436	AVRG		0.30110		6.29661	
45 2,2,4 Trimethylpentane	0.83957	0.74105	0.79258	0.80540	0.88205	0.86735	0.85005	AVRG		0.82544		5.92885	
166 Tert-butyl formate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
31 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
46 Benzene	1.53214	1.02069	1.16110	1.18303	1.22470	1.22905	1.25469	AVRG		1.22934		12.54426	

GCAL, Inc.

INITIAL CALIBRATION DATA

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Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
47 Propionitrile	0.05961	0.06906	0.07294	0.07795	0.07121	0.07637							
	0.07700							AVRG		0.07202		8.83955	
48 Methylacrylonitrile	0.25853	0.27117	0.27452	0.29765	0.28683	0.29891							
	0.28274							AVRG		0.28148		5.18276	
51 1,2-Dichloroethane	0.57566	0.42329	0.45577	0.44808	0.46733	0.46416							
	0.47230							AVRG		0.47237		10.23893	
52 Isobutyl Alcohol	0.02359	0.03035	0.03101	0.03288	0.02874	0.03001							
	0.03113							AVRG		0.02967		9.98971	
167 tert-amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++							
	+++++							AVRG		0.000e+00		0.000e+00	<-
55 Methyl Cyclohexane	3561	10205	27078	55016	156001	327765							
	697837							LINR	0.06300	0.56120		0.99895	
56 Trichloroethene	0.44603	0.28370	0.32838	0.32860	0.34543	0.33967							
	0.34264							AVRG		0.34492		14.27419	

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Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2	
39 1,3-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++						
								AVRG		0.000e+00		0.000e+00	<-
33 n-Butanol	0.07917	0.09044	0.09515	0.10266	0.09118	0.09582	0.10184						
								AVRG		0.09375		8.50217	
57 Dibromomethane	0.23509	0.17620	0.19173	0.19113	0.19897	0.19837	0.20067						
								AVRG		0.19888		9.04322	
58 2-3 Dichloro-1-Proprene	0.37292	0.33471	0.35124	0.35522	0.37280	0.38156	0.36790						
								AVRG		0.36233		4.44852	
164 Tert-amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++						
								AVRG		0.000e+00		0.000e+00	<-
59 1,2-Dichloropropane +	0.39946	0.28576	0.30772	0.31162	0.33159	0.34109	0.36035						
								AVRG		0.33394		11.30604	
60 Bromodichloromethane	0.49624	0.36499	0.39413	0.39647	0.42591	0.43986	0.46016						
								AVRG		0.42540		10.46898	

GCAL, Inc.

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End Cal Date : 21-SEP-2011 13:51
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
49 1,4-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
54 1,2-difluorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
61 Methyl methacrylate	0.28184	0.30103	0.32526	0.34527	0.34567	0.38462						
	0.40257						AVRG		0.34090		12.60571	
62 1,4- Dioxane	0.00533	0.00434	0.00435	0.00432	0.00405	0.00399						
	0.00432						AVRG		0.00439		10.05870	<-
65 1-Bromo-2-chloroethane	280	1386	2652	5655	15075	30018						
	61392						LINR	0.02278	0.04924		0.99990	
64 2-Chloroethyl vinyl ether	656	3148	6872	13861	41533	89148						
	181276						LINR	0.05469	0.14666		0.99941	
67 cis-1,3-Dichloropropene	0.39725	0.27376	0.29638	0.29722	0.31809	0.32577						
	0.34139						AVRG		0.32141		12.48603	

GCAL, Inc.

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Method file : /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
66 3-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
69 Toluene +	11050	35780	79015	159621	412352	811183						
	1631455						LINR	0.00159	3.02533		0.99988	
81 2-Nitropropane	0.13275	0.12837	0.13362	0.14230	0.14772	0.15701						
	0.14631						AVRG		0.14116		7.16278	
71 Tetrachloroethene	2182	6674	16030	32994	88727	182110						
	377125						LINR	0.03500	0.70114		0.99956	
73 4-methyl-2-pentanone	0.53319	0.45435	0.49678	0.52318	0.56478	0.56522						
	0.60908						AVRG		0.53522		9.46433	
74 trans-1,3-Dichloropropene	0.31562	0.25065	0.26117	0.26924	0.28628	0.29081						
	0.30095						AVRG		0.28210		8.14029	
77 Ethyl Methacrylate	1835	8635	20081	39066	112461	250728						
	487083						LINR	0.07080	0.92212		0.99828	

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Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
76 1,1,2-Trichloroethane	0.90333	0.69395	0.70487	0.69833	0.74915	0.73229						
	0.76816						AVRG		0.75001		9.73743	
78 Dibromochloromethane	0.89025	0.70349	0.71674	0.70877	0.78611	0.80274						
	0.85723						AVRG		0.78076		9.58441	
79 1,3-Dichloropropane	1.38154	1.08573	1.13987	1.10162	1.18930	1.16380						
	1.19542						AVRG		1.17961		8.32367	
72 2-ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
70 1-Nitropropane	+++++	0.08065	0.06894	0.06556	0.07828	0.07498						
	0.06846						AVRG		0.07281		8.30011	
112 1-3 Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
80 1,2-Dibromoethane(EDB)	0.88678	0.64463	0.66797	0.65101	0.70228	0.68375						
	0.67404						AVRG		0.70149		11.97040	

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Compound	1 Level 3 / 200 Level 9	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
111 1-4 Diethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
116 1-2 Diethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
83 2-Hexanone	0.93795 / 1.00472	0.77205	0.82369	0.89333	0.99158	0.95755	AVRG		0.91155		9.54380	
M 75 Total 1,2-Dichloroethene	0.48882 / 0.41982	0.33337	0.38160	0.38090	0.40296	0.40801	AVRG		0.40221		11.77736	
86 1-Chlorohexane	1976 / 485471	6094	17458	38319	110452	230866	LINR	0.06374	0.39155		0.99932	
85 Chlorobenzene ++	7217 / 1060275	24508	52312	101475	266885	530920	LINR	0.00104	1.96772		0.99992	
87 Ethylbenzene +	3691 / 604828	11602	26982	54725	145518	294718	LINR	0.02443	1.12339		0.99972	

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Cal Date : 29-Sep-2011 10:01 ksm

Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	200 Level 9	Curve	Coefficients b	m1	m2	%RSD or R^2	
88 1,1,1,2-Tetrachloroethane	0.82215	0.61448	0.65632	0.67042	0.72605	0.73060	0.77797	AVRG		0.71400		10.12188	
89 p,m-Xylene	1.55658	1.08535	1.21594	1.20019	1.32131	1.32525	1.37239	AVRG		1.29672		11.57614	
63 Methyldisulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
90 o-Xylene	1.36615	1.01361	1.16539	1.19931	1.32049	1.33260	1.39857	AVRG		1.25659		10.90468	
91 Styrene	1.99094	1.58946	1.78523	1.83699	2.01404	2.00992	1.99225	AVRG		1.88840		8.49753	
92 Bromoform ++	0.61440	0.51874	0.53950	0.55057	0.62035	0.65250	0.67801	AVRG		0.59630		10.17226	
82 1-3 Dichloropropene total	0.35643	0.26220	0.27877	0.28323	0.30218	0.30829	0.32117	AVRG		0.30175		10.34317	

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Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	200 Level 9										
93 Isopropylbenzene	3.76066	2.50498	3.00513	3.06755	3.49907	3.55080					
	3.68449						AVRG		3.29610		13.76721
96 Bromobenzene	5253	17876	37695	76267	200383	414155					
	836545						LINR	0.00395	1.59329		0.99987
97 n-Propylbenzene	5.23534	3.29619	3.87135	3.87026	4.14764	4.17882					
	4.32364						AVRG		4.13189		14.28928
98 1,1,2,2-Tetrachloroethane++	1.42981	1.05146	1.07954	1.08159	1.13297	1.11737					
	1.13367						AVRG		1.14663		11.21337
99 2-Chlorotoluene	3.58418	2.50495	2.82085	2.77523	2.92186	2.90976					
	3.04398						AVRG		2.93726		11.27083
102 1,3,5-Trimethylbenzene	3.39371	2.46711	2.86895	2.91951	3.11135	3.15715					
	3.31176						AVRG		3.03279		10.33441
100 1,2,3-Trichloropropane	1.71637	1.25638	1.29473	1.30211	1.32165	1.28960					
	1.32209						AVRG		1.35756		11.76944

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Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 9										
101 trans-1,4-Dichloro-2-Butene	0.19690	0.16565	0.17694	0.17559	0.18307	0.17992					
	0.18375						AVRG		0.18026		5.28031
103 Cyclohexanone	0.26405	0.29478	0.31761	0.33353	0.29481	0.32695					
	0.34853						AVRG		0.31147		9.21527
104 4-Chlorotoluene	3.05481	2.13237	2.35455	2.33427	2.43576	2.38100					
	2.35318						AVRG		2.43513		11.87801
105 tert-butylbenzene	2.04026	1.36094	1.60686	1.61958	1.74260	1.74664					
	1.79817						AVRG		1.70215		12.21729
106 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+00		0.000e+00
107 1,2,4-Trimethylbenzene	3.11401	2.37388	2.73117	2.78602	2.99935	3.01367					
	3.07879						AVRG		2.87098		9.13796
108 sec-Butylbenzene	4.21865	2.81779	3.47275	3.37600	3.73124	3.77083					
	3.85260						AVRG		3.60569		12.25187

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Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
109 Dicyclopentadiene	6224	22911	58524	110622	365290	774476						
	1405561						LINR	0.04356	3.08384		0.99945	
110 p-Isopropyltoluene	3.20796	2.19522	2.68482	2.73127	3.01444	3.11748						
	3.16515						AVRG		2.87376		12.64420	
113 1,3-Dichlorobenzene	5636	18722	39660	79851	213551	448414						
	882138						LINR	-0.00049	1.68637		0.99997	
115 1,4-Dichlorobenzene	5672	19399	39802	78387	207513	432217						
	845280						LINR	-0.00951	1.61401		0.99995	
117 n-Butylbenzene	7287	23051	54158	110801	325442	710388						
	1432896						LINR	0.03743	2.75268		0.99974	
118 1,2-Dichlorobenzene	2.21442	1.54169	1.62045	1.63862	1.69739	1.67002						
	1.69090						AVRG		1.72478		12.88803	
94 2-methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
	200 Level 9											
163 3,3 Dimethyl-1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
119 1,2-Dibromo-3-Chloropropane	0.23079	0.20568	0.22128	0.23570	0.25487	0.25563						
	0.27853						AVRG		0.24035		10.16358	
120 Hexachlorobutadiene	2030	5629	12017	23876	68349	151278						
	305678						LINR	0.03395	0.58602		0.99961	
122 1,2,4-Trichlorobenzene	1.35946	0.95118	0.96562	0.98838	1.10107	1.12147						
	1.18633						AVRG		1.09622		13.31344	
124 Naphthalene	2.76181	2.28241	2.44243	2.55936	2.72820	2.63527						
	2.85965						AVRG		2.60988		7.63024	
125 1,2,3-Trichlorobenzene	1.34101	0.95798	0.98861	1.00827	1.07749	1.06949						
	1.15066						AVRG		1.08478		11.98769	
123 Benzal Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Compound	1 Level 3	5 Level 4	10 Level 5	20 Level 6	50 Level 7	100 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
	200 Level 9											
M 121 TOTAL XYLENE	1.66489	1.17585	1.32546	1.34575	1.40254	1.35947						
	1.42104						AVRG		1.38500		10.60453	
M 126 Total Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 40 Dibromofluoromethane	0.24660	0.24869	0.25251	0.25488	0.25795	0.27044						
	0.27976						AVRG		0.25869		4.68549	
$ 50 1,2-Dichloroethane-d4	0.16566	0.16675	0.16957	0.17000	0.17192	0.17759						
	0.17765						AVRG		0.17131		2.79279	
68 Toluene-d8	2.35337	2.35356	2.33776	2.34949	2.36974	2.33247						
	2.34335						AVRG		2.34853		0.52157	
$ 95 Bromofluorobenzene	0.79081	0.79805	0.78100	0.77914	0.81040	0.82778						
	0.79630						AVRG		0.79764		2.13429	

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv12.i/2110921.s.b/8260dodw12.m
Misc Info: MSV~22859~*1*LBH

Client SDG: 2110921.s
Fraction: VOA
Client Smp ID: 1600
Operator: LBH
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS	
1	Dichlorodifluoromethane	50.0	48.3	96.68	80-120	
2	Chloromethane ++	50.0	49.5	99.02	80-120	
3	Vinyl Chloride +	50.0	48.9	97.85	80-120	
6	Bromomethane	50.0	50.0	99.92	80-120	
7	Chloroethane	50.0	54.2	108.42	80-120	
8	Trichlorofluoromethane	50.0	50.7	101.39	80-120	
10	1,1-Dichloroethene +	50.0	48.5	97.00	80-120	
11	Carbon Disulfide	50.0	48.6	97.13	80-120	
12	1,1,2Trichlotrifluoroethane	50.0	48.3	96.60	80-120	
13	Methyl Iodide	50.0	48.4	96.88	80-120	
14	Acrolein	250	179	71.76*	80-120	NT
16	Methylene Chloride	50.0	47.4	94.88	80-120	
17	Acetone	50.0	50.5	101.07	80-120	
18	trans-1,2-Dichloroethene	50.0	50.5	100.98	80-120	
19	Methyl Acetate	50.0	43.7	87.32	80-120	
20	Hexane	50.0	51.9	103.82	80-120	
21	MTBE	50.0	50.0	100.08	80-120	
26	1,1-Dichloroethane ++	50.0	48.3	96.67	80-120	
27	Acrylonitrile	250	256	102.35	80-120	
28	Vinyl Acetate	50.0	47.8	95.63	80-120	
29	cis-1,2-Dichloroethene	50.0	48.8	97.63	80-120	
30	2,2-Dichloropropane	50.0	50.7	101.32	80-120	
32	Cyclohexane	50.0	46.4	92.90	80-120	
34	Bromochloromethane	50.0	47.8	95.51	80-120	
35	Chloroform +	50.0	48.7	97.45	80-120	
36	Carbon Tetrachloride	50.0	46.8	93.51	80-120	
41	1,1,1-Trichloroethane	50.0	49.7	99.35	80-120	
43	1,1-Dichloropropene	50.0	49.1	98.13	80-120	
44	2-Butanone	50.0	51.2	102.38	80-120	
31	Heptane	50.0	0.00	*	80-120	
46	Benzene	50.0	49.4	98.81	80-120	
51	1,2-Dichloroethane	50.0	48.5	96.91	80-120	
55	Methyl Cyclohexane	50.0	47.2	94.40	80-120	

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	56 Trichloroethene	50.0	47.3	94.53	80-120
	57 Dibromomethane	50.0	49.6	99.12	80-120
	59 1,2-Dichloropropane +	50.0	49.6	99.22	80-120
	60 Bromodichloromethane	50.0	48.6	97.11	80-120
	64 2-Chloroethyl vinyl ether	50.0	52.3	104.66	80-120
	67 cis-1,3-Dichloropropene	50.0	49.1	98.29	80-120
	69 Toluene +	50.0	50.9	101.74	80-120
	71 Tetrachloroethene	50.0	49.1	98.26	80-120
	73 4-methyl-2-pentanone	50.0	49.7	99.43	80-120
	74 trans-1,3-Dichloropropene	50.0	51.6	103.29	80-120
M	75 Total 1,2-Dichloroethene	100	99.3	99.30	80-120
	76 1,1,2-Trichloroethane	50.0	48.4	96.80	80-120
	78 Dibromochloromethane	50.0	48.9	97.71	80-120
	79 1,3-Dichloropropane	50.0	49.4	98.72	80-120
	80 1,2-Dibromoethane(EDB)	50.0	49.3	98.69	80-120
	83 2-Hexanone	50.0	52.4	104.89	80-120
	86 1-Chlorohexane	50.0	49.3	98.67	80-120
	85 Chlorobenzene ++	50.0	50.9	101.71	80-120
	87 Ethylbenzene +	50.0	49.6	99.17	80-120
	88 1,1,1,2-Tetrachloroethane	50.0	49.2	98.48	80-120
	89 p,m-Xylene	100	104	103.85	80-120
	90 o-Xylene	50.0	53.3	106.59	80-120
	91 Styrene	50.0	55.0	109.92	80-120
	92 Bromoform ++	50.0	52.8	105.56	80-120
	93 Isopropylbenzene	50.0	53.5	107.07	80-120
	96 Bromobenzene	50.0	50.4	100.80	80-120
	97 n-Propylbenzene	50.0	51.8	103.67	80-120
	98 1,1,2,2-Tetrachloroethane++	50.0	48.2	96.38	80-120
	99 2-Chlorotoluene	50.0	49.5	98.99	80-120
	102 1,3,5-Trimethylbenzene	50.0	51.6	103.18	80-120
	100 1,2,3-Trichloropropane	50.0	47.3	94.66	80-120
	101 trans-1,4-Dichloro-2-Butene	50.0	52.8	105.65	80-120
	104 4-Chlorotoluene	50.0	50.6	101.28	80-120
	105 tert-butylbenzene	50.0	51.5	102.93	80-120
	107 1,2,4-Trimethylbenzene	50.0	53.5	106.97	80-120
	108 sec-Butylbenzene	50.0	52.2	104.35	80-120
	110 p-Isopropyltoluene	50.0	56.3	112.52	80-120
	113 1,3-Dichlorobenzene	50.0	50.5	101.08	80-120
	115 1,4-Dichlorobenzene	50.0	51.7	103.45	80-120
	117 n-Butylbenzene	50.0	51.9	103.78	80-120
	118 1,2-Dichlorobenzene	50.0	48.6	97.20	80-120
	119 1,2-Dibromo-3-Chloropropane	50.0	50.2	100.32	80-120
	120 Hexachlorobutadiene	50.0	52.0	103.91	80-120
M	121 TOTAL XYLENE	150	157	104.77	80-120
	122 1,2,4-Trichlorobenzene	50.0	53.7	107.48	80-120
	124 Naphthalene	50.0	52.3	104.56	80-120
	125 1,2,3-Trichlorobenzene	50.0	51.6	103.14	80-120

Data File: /var/chem/msv12.i/2111002.s.b/h2064.d
Report Date: 02-Oct-2011 14:26

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2064.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111002.s.b/8260dodw12.m

Injection Date: 02-OCT-2011 11:44
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	48.56475	50.00000	0.33985	0.010	-2.87049	20.00000	Linear	
2 Chloromethane ++	56.55784	50.00000	0.41979	0.100	13.11569	20.00000	Linear	
3 Vinyl Chloride +	54.45567	50.00000	0.41488	0.010	8.91134	20.00000	Linear	
6 Bromomethane	48.69201	50.00000	0.15700	0.010	-2.61597	20.00000	Linear	
7 Chloroethane	60.64539	50.00000	0.21059	0.010	21.29078	20.00000	Linear	<-
8 Trichlorofluoromethane	51.60849	50.00000	0.45049	0.010	3.21698	20.00000	Linear	
10 1,1-Dichloroethene +	51.93995	50.00000	0.26824	0.010	3.87989	20.00000	Linear	
11 Carbon Disulfide	47.88546	50.00000	0.79546	0.010	-4.22908	20.00000	Linear	
12 1,1,2Trichlotrifluoroethane	51.23461	50.00000	0.27458	0.010	2.46922	20.00000	Linear	
13 Methyl Iodide	0.22188	0.26641	0.26641	0.010	20.07092	20.00000	Averaged	<- NT
14 Acrolein	0.04387	0.04402	0.04402	0.010	0.32869	20.00000	Averaged	
16 Methylene Chloride	53.99454	50.00000	0.47003	0.010	7.98908	20.00000	Linear	
17 Acetone	0.26534	0.29992	0.29992	0.010	13.03074	20.00000	Averaged	
18 trans-1,2-Dichloroethene	0.40768	0.45486	0.45486	0.010	11.57248	20.00000	Averaged	
19 Methyl Acetate	0.36104	0.36009	0.36009	0.010	-0.26369	20.00000	Averaged	
20 Hexane	60.93656	50.00000	0.48493	0.010	21.87311	20.00000	Linear	<- NT
21 MTBE	0.89802	0.96422	0.96422	0.010	7.37115	20.00000	Averaged	
26 1,1-Dichloroethane ++	0.56814	0.62796	0.62796	0.100	10.52870	20.00000	Averaged	
27 Acrylonitrile	0.15038	0.16519	0.16519	0.010	9.84536	20.00000	Averaged	
28 Vinyl Acetate	67.80314	50.00000	0.47776	0.010	35.60628	20.00000	Linear	<- NT
29 cis-1,2-Dichloroethene	0.39674	0.42073	0.42073	0.010	6.04767	20.00000	Averaged	
30 2,2-Dichloropropane	55.33670	50.00000	0.41076	0.010	10.67341	20.00000	Linear	
32 Cyclohexane	54.21854	50.00000	0.61444	0.010	8.43707	20.00000	Linear	
34 Bromochloromethane	0.15853	0.16024	0.16024	0.010	1.07950	20.00000	Averaged	
35 Chloroform +	50.69392	50.00000	0.58174	0.010	1.38785	20.00000	Linear	
36 Carbon Tetrachloride	53.25207	50.00000	0.41599	0.010	6.50415	20.00000	Linear	
41 1,1,1-Trichloroethane	0.44174	0.48193	0.48193	0.010	9.09779	20.00000	Averaged	
$ 40 Dibromofluoromethane	0.25869	0.26234	0.26234	0.010	1.41057	20.00000	Averaged	
43 1,1-Dichloropropene	53.86972	50.00000	0.44784	0.010	7.73943	20.00000	Linear	
44 2-Butanone	0.30110	0.31431	0.31431	0.010	4.38523	20.00000	Averaged	
46 Benzene	1.22934	1.29833	1.29833	0.010	5.61186	20.00000	Averaged	
$ 50 1,2-Dichloroethane-d4	0.17131	0.16753	0.16753	0.010	-2.20239	20.00000	Averaged	
51 1,2-Dichloroethane	0.47237	0.45707	0.45707	0.010	-3.23844	20.00000	Averaged	
55 Methyl Cyclohexane	53.98069	50.00000	0.57052	0.010	7.96138	20.00000	Linear	
56 Trichloroethene	0.34492	0.35149	0.35149	0.010	1.90294	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2064.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111002.s.b/8260dodw12.m

Injection Date: 02-OCT-2011 11:44
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Dibromomethane	0.19888	0.19467	0.19467	0.010	-2.11904	20.00000	Averaged
59 1,2-Dichloropropane +	0.33394	0.34951	0.34951	0.010	4.66061	20.00000	Averaged
60 Bromodichloromethane	0.42540	0.42892	0.42892	0.010	0.82775	20.00000	Averaged
65 1-Bromo-2-chloroethane	50.14713	50.00000	0.04827	0.010	0.29425	20.00000	Linear
64 2-Chloroethyl vinyl ether	50.07001	50.00000	0.13884	0.010	0.14001	20.00000	Linear
67 cis-1,3-Dichloropropene	0.32141	0.35387	0.35387	0.010	10.09997	20.00000	Averaged
$ 68 Toluene-d8	2.34853	2.37899	2.37899	0.010	1.29674	20.00000	Averaged
69 Toluene +	53.72343	50.00000	3.24581	0.010	7.44686	20.00000	Linear
71 Tetrachloroethene	53.18947	50.00000	0.72133	0.010	6.37894	20.00000	Linear
73 4-methyl-2-pentanone	0.53522	0.51534	0.51534	0.010	-3.71457	20.00000	Averaged
74 trans-1,3-Dichloropropene	0.28210	0.28952	0.28952	0.010	2.62935	20.00000	Averaged
76 1,1,2-Trichloroethane	0.75001	0.73843	0.73843	0.010	-1.54403	20.00000	Averaged
78 Dibromochloromethane	0.78076	0.79746	0.79746	0.010	2.13845	20.00000	Averaged
79 1,3-Dichloropropane	1.17961	1.19023	1.19023	0.010	0.90049	20.00000	Averaged
80 1,2-Dibromoethane(EDB)	0.70149	0.68762	0.68762	0.010	-1.97754	20.00000	Averaged
83 2-Hexanone	0.91155	0.94844	0.94844	0.010	4.04694	20.00000	Averaged
85 Chlorobenzene ++	51.21499	50.00000	2.01348	0.300	2.42997	20.00000	Linear
86 1-Chlorohexane	43.30561	50.00000	0.31417	0.010	-13.38879	20.00000	Linear
87 Ethylbenzene +	49.56427	50.00000	1.08616	0.010	-0.87146	20.00000	Linear
88 1,1,1,2-Tetrachloroethane	0.71400	0.73863	0.73863	0.010	3.44985	20.00000	Averaged
89 p,m-Xylene	1.29672	1.32091	1.32091	0.010	1.86584	20.00000	Averaged
M 75 Total 1,2-Dichloroethene	0.40221	0.43780	0.43780	0.010	8.84764	20.00000	Averaged
90 o-Xylene	1.25659	1.30869	1.30869	0.010	4.14592	20.00000	Averaged
91 Styrene	1.88840	1.96569	1.96569	0.010	4.09264	20.00000	Averaged
92 Bromoform ++	0.59630	0.59742	0.59742	0.100	0.18856	20.00000	Averaged
93 Isopropylbenzene	3.29610	3.48181	3.48181	0.010	5.63416	20.00000	Averaged
$ 95 Bromofluorobenzene	0.79764	0.78951	0.78951	0.010	-1.01941	20.00000	Averaged
96 Bromobenzene	52.15590	50.00000	1.65570	0.010	4.31180	20.00000	Linear
M 82 1-3 Dichloropropene total	0.30175	0.32169	0.32169	0.010	6.60794	20.00000	Averaged
97 n-Propylbenzene	4.13189	4.40755	4.40755	0.010	6.67150	20.00000	Averaged
98 1,1,2,2-Tetrachloroethane++	1.14663	1.11954	1.11954	0.300	-2.36252	20.00000	Averaged
99 2-Chlorotoluene	2.93726	3.01659	3.01659	0.010	2.70077	20.00000	Averaged
102 1,3,5-Trimethylbenzene	3.03279	3.23042	3.23042	0.010	6.51642	20.00000	Averaged
100 1,2,3-Trichloropropane	1.35756	1.27399	1.27399	0.010	-6.15598	20.00000	Averaged
101 trans-1,4-Dichloro-2-Butene	0.18026	0.15939	0.15939	0.010	-11.57887	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2064.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111002.s.b/8260dodw12.m

Injection Date: 02-OCT-2011 11:44
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
104 4-Chlorotoluene	2.43513	2.51696	2.51696	0.010	3.36026	20.00000	Averaged
105 tert-butylbenzene	1.70215	1.83024	1.83024	0.010	7.52548	20.00000	Averaged
107 1,2,4-Trimethylbenzene	2.87098	3.02976	3.02976	0.010	5.53029	20.00000	Averaged
108 sec-Butylbenzene	3.60569	3.95194	3.95194	0.010	9.60288	20.00000	Averaged
110 p-Isopropyltoluene	2.87376	3.18465	3.18465	0.010	10.81812	20.00000	Averaged
113 1,3-Dichlorobenzene	53.28191	50.00000	1.79789	0.010	6.56381	20.00000	Linear
115 1,4-Dichlorobenzene	52.40136	50.00000	1.70688	0.010	4.80272	20.00000	Linear
117 n-Butylbenzene	51.15686	50.00000	2.71334	0.010	2.31371	20.00000	Linear
118 1,2-Dichlorobenzene	1.72478	1.78885	1.78885	0.010	3.71434	20.00000	Averaged
119 1,2-Dibromo-3-Chloropropane	0.24035	0.25431	0.25431	0.010	5.80467	20.00000	Averaged
120 Hexachlorobutadiene	59.80690	50.00000	0.68107	0.010	19.61381	20.00000	Linear
122 1,2,4-Trichlorobenzene	1.09622	1.25498	1.25498	0.010	14.48282	20.00000	Averaged
124 Naphthalene	2.60988	2.77571	2.77571	0.010	6.35406	20.00000	Averaged
125 1,2,3-Trichlorobenzene	1.08478	1.20205	1.20205	0.010	10.80992	20.00000	Averaged
M 121 TOTAL XYLENE	1.38500	1.50582	1.50582	0.010	8.72334	20.00000	Averaged

Data File: /var/chem/msv12.i/2111005.s.b/h2166.d
Report Date: 05-Oct-2011 13:04

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2166.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111005.s.b/8260dodw12.m

Injection Date: 05-OCT-2011 07:00
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	41.06628	50.00000	0.28415	0.010	-17.86744	20.00000	Linear	
2 Chloromethane ++	51.44693	50.00000	0.38100	0.100	2.89386	20.00000	Linear	
3 Vinyl Chloride +	49.69575	50.00000	0.37700	0.010	-0.60850	20.00000	Linear	
6 Bromomethane	45.31150	50.00000	0.14584	0.010	-9.37699	20.00000	Linear	
7 Chloroethane	55.72982	50.00000	0.19386	0.010	11.45964	20.00000	Linear	
8 Trichlorofluoromethane	46.59350	50.00000	0.40493	0.010	-6.81300	20.00000	Linear	
10 1,1-Dichloroethene +	49.62504	50.00000	0.25584	0.010	-0.74991	20.00000	Linear	
11 Carbon Disulfide	43.99697	50.00000	0.72811	0.010	-12.00607	20.00000	Linear	
12 1,1,2Trichlotrifluoroethane	46.86600	50.00000	0.24985	0.010	-6.26799	20.00000	Linear	
13 Methyl Iodide	0.22188	0.22577	0.22577	0.010	1.75502	20.00000	Averaged	
14 Acrolein	0.04387	0.04661	0.04661	0.010	6.24589	20.00000	Averaged	
16 Methylene Chloride	51.44241	50.00000	0.44752	0.010	2.88482	20.00000	Linear	
17 Acetone	0.26534	0.25106	0.25106	0.010	-5.38042	20.00000	Averaged	
18 trans-1,2-Dichloroethene	0.40768	0.43798	0.43798	0.010	7.43079	20.00000	Averaged	
19 Methyl Acetate	0.36104	0.33684	0.33684	0.010	-6.70222	20.00000	Averaged	
20 Hexane	53.63815	50.00000	0.42616	0.010	7.27630	20.00000	Linear	
21 MTBE	0.89802	0.93552	0.93552	0.010	4.17548	20.00000	Averaged	
26 1,1-Dichloroethane ++	0.56814	0.57880	0.57880	0.100	1.87577	20.00000	Averaged	
27 Acrylonitrile	0.15038	0.17626	0.17626	0.010	17.20537	20.00000	Averaged	
28 Vinyl Acetate	64.37304	50.00000	0.45240	0.010	28.74608	20.00000	Linear	<- NT
29 cis-1,2-Dichloroethene	0.39674	0.40892	0.40892	0.010	3.06954	20.00000	Averaged	
30 2,2-Dichloropropane	51.63983	50.00000	0.38276	0.010	3.27965	20.00000	Linear	
32 Cyclohexane	49.70286	50.00000	0.55998	0.010	-0.59428	20.00000	Linear	
34 Bromochloromethane	0.15853	0.15135	0.15135	0.010	-4.52609	20.00000	Averaged	
35 Chloroform +	46.91004	50.00000	0.53776	0.010	-6.17993	20.00000	Linear	
36 Carbon Tetrachloride	47.29908	50.00000	0.36730	0.010	-5.40184	20.00000	Linear	
41 1,1,1-Trichloroethane	0.44174	0.44481	0.44481	0.010	0.69377	20.00000	Averaged	
$ 40 Dibromofluoromethane	0.25869	0.23950	0.23950	0.010	-7.41789	20.00000	Averaged	
43 1,1-Dichloropropene	50.84572	50.00000	0.42179	0.010	1.69145	20.00000	Linear	
44 2-Butanone	0.30110	0.29098	0.29098	0.010	-3.35993	20.00000	Averaged	
46 Benzene	1.22934	1.26151	1.26151	0.010	2.61687	20.00000	Averaged	
$ 50 1,2-Dichloroethane-d4	0.17131	0.16611	0.16611	0.010	-3.03048	20.00000	Averaged	
51 1,2-Dichloroethane	0.47237	0.44324	0.44324	0.010	-6.16662	20.00000	Averaged	
55 Methyl Cyclohexane	49.23118	50.00000	0.51721	0.010	-1.53763	20.00000	Linear	
56 Trichloroethene	0.34492	0.35700	0.35700	0.010	3.50311	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2166.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111005.s.b/8260dodw12.m

Injection Date: 05-OCT-2011 07:00
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Dibromomethane	0.19888	0.19068	0.19068	0.010	-4.12580	20.00000	Averaged
59 1,2-Dichloropropane +	0.33394	0.33676	0.33676	0.010	0.84501	20.00000	Averaged
60 Bromodichloromethane	0.42540	0.39483	0.39483	0.010	-7.18473	20.00000	Averaged
65 1-Bromo-2-chloroethane	49.54386	50.00000	0.04767	0.010	-0.91229	20.00000	Linear
64 2-Chloroethyl vinyl ether	42.38080	50.00000	0.11629	0.010	-15.23839	20.00000	Linear
67 cis-1,3-Dichloropropene	0.32141	0.32743	0.32743	0.010	1.87316	20.00000	Averaged
$ 68 Toluene-d8	2.34853	2.35003	2.35003	0.010	0.06363	20.00000	Averaged
69 Toluene +	51.25191	50.00000	3.09627	0.010	2.50382	20.00000	Linear
71 Tetrachloroethene	50.23312	50.00000	0.67987	0.010	0.46623	20.00000	Linear
73 4-methyl-2-pentanone	0.53522	0.51648	0.51648	0.010	-3.50307	20.00000	Averaged
74 trans-1,3-Dichloropropene	0.28210	0.27664	0.27664	0.010	-1.93478	20.00000	Averaged
76 1,1,2-Trichloroethane	0.75001	0.71552	0.71552	0.010	-4.59840	20.00000	Averaged
78 Dibromochloromethane	0.78076	0.71622	0.71622	0.010	-8.26570	20.00000	Averaged
79 1,3-Dichloropropane	1.17961	1.17267	1.17267	0.010	-0.58856	20.00000	Averaged
80 1,2-Dibromoethane(EDB)	0.70149	0.68559	0.68559	0.010	-2.26771	20.00000	Averaged
83 2-Hexanone	0.91155	0.91157	0.91157	0.010	0.00139	20.00000	Averaged
85 Chlorobenzene ++	50.64552	50.00000	1.99107	0.300	1.29104	20.00000	Linear
86 1-Chlorohexane	45.56601	50.00000	0.33187	0.010	-8.86799	20.00000	Linear
87 Ethylbenzene +	48.79117	50.00000	1.06879	0.010	-2.41766	20.00000	Linear
88 1,1,1,2-Tetrachloroethane	0.71400	0.67567	0.67567	0.010	-5.36860	20.00000	Averaged
89 p,m-Xylene	1.29672	1.30876	1.30876	0.010	0.92891	20.00000	Averaged
M 75 Total 1,2-Dichloroethene	0.40221	0.42345	0.42345	0.010	5.27982	20.00000	Averaged
90 o-Xylene	1.25659	1.30859	1.30859	0.010	4.13810	20.00000	Averaged
91 Styrene	1.88840	1.96622	1.96622	0.010	4.12101	20.00000	Averaged
92 Bromoform ++	0.59630	0.56081	0.56081	0.100	-5.95093	20.00000	Averaged
93 Isopropylbenzene	3.29610	3.43514	3.43514	0.010	4.21828	20.00000	Averaged
$ 95 Bromofluorobenzene	0.79764	0.81433	0.81433	0.010	2.09194	20.00000	Averaged
96 Bromobenzene	50.73818	50.00000	1.61053	0.010	1.47635	20.00000	Linear
M 82 1-3 Dichloropropene total	0.30175	0.30204	0.30204	0.010	0.09320	20.00000	Averaged
97 n-Propylbenzene	4.13189	4.21325	4.21325	0.010	1.96912	20.00000	Averaged
98 1,1,2,2-Tetrachloroethane++	1.14663	1.01347	1.01347	0.300	-11.61354	20.00000	Averaged
99 2-Chlorotoluene	2.93726	2.90495	2.90495	0.010	-1.09990	20.00000	Averaged
102 1,3,5-Trimethylbenzene	3.03279	3.12316	3.12316	0.010	2.97977	20.00000	Averaged
100 1,2,3-Trichloropropane	1.35756	1.27366	1.27366	0.010	-6.18032	20.00000	Averaged
101 trans-1,4-Dichloro-2-Butene	0.18026	0.17244	0.17244	0.010	-4.33649	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2166.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111005.s.b/8260dodw12.m

Injection Date: 05-OCT-2011 07:00
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
104 4-Chlorotoluene	2.43513	2.52284	2.52284	0.010	3.60175	20.00000	Averaged
105 tert-butylbenzene	1.70215	1.77512	1.77512	0.010	4.28719	20.00000	Averaged
107 1,2,4-Trimethylbenzene	2.87098	2.95663	2.95663	0.010	2.98320	20.00000	Averaged
108 sec-Butylbenzene	3.60569	3.83628	3.83628	0.010	6.39497	20.00000	Averaged
110 p-Isopropyltoluene	2.87376	3.17204	3.17204	0.010	10.37935	20.00000	Averaged
113 1,3-Dichlorobenzene	52.38470	50.00000	1.76762	0.010	4.76941	20.00000	Linear
115 1,4-Dichlorobenzene	53.53810	50.00000	1.74357	0.010	7.07619	20.00000	Linear
117 n-Butylbenzene	50.05444	50.00000	2.65265	0.010	0.10888	20.00000	Linear
118 1,2-Dichlorobenzene	1.72478	1.78898	1.78898	0.010	3.72177	20.00000	Averaged
119 1,2-Dibromo-3-Chloropropane	0.24035	0.24622	0.24622	0.010	2.44115	20.00000	Averaged
120 Hexachlorobutadiene	59.76554	50.00000	0.68058	0.010	19.53107	20.00000	Linear
122 1,2,4-Trichlorobenzene	1.09622	1.22369	1.22369	0.010	11.62830	20.00000	Averaged
124 Naphthalene	2.60988	2.80481	2.80481	0.010	7.46898	20.00000	Averaged
125 1,2,3-Trichlorobenzene	1.08478	1.19117	1.19117	0.010	9.80714	20.00000	Averaged
M 121 TOTAL XYLENE	1.38500	1.43301	1.43301	0.010	3.46653	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i Injection Date: 07-OCT-2011 07:04
Lab File ID: h2279D.d Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Analysis Type: WATER Init. Cal. Times: 14:41 13:51
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/msv12.i/2111007.s.b/8260dodw12.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	40.46689	50.00000	0.27970	0.010	-19.06622	20.00000	Linear
2 Chloromethane ++	49.31161	50.00000	0.36480	0.100	-1.37677	20.00000	Linear
3 Vinyl Chloride +	48.99299	50.00000	0.37140	0.010	-2.01403	20.00000	Linear
6 Bromomethane	43.83921	50.00000	0.14098	0.010	-12.32158	20.00000	Linear
7 Chloroethane	51.94801	50.00000	0.18099	0.010	3.89602	20.00000	Linear
8 Trichlorofluoromethane	47.56518	50.00000	0.41376	0.010	-4.86963	20.00000	Linear
10 1,1-Dichloroethene +	48.23216	50.00000	0.24838	0.010	-3.53568	20.00000	Linear
11 Carbon Disulfide	42.61427	50.00000	0.70417	0.010	-14.77147	20.00000	Linear
12 1,1,2Trichlotrifluoroethane	47.77518	50.00000	0.25500	0.010	-4.44963	20.00000	Linear
13 Methyl Iodide	0.22188	0.22019	0.22019	0.010	-0.76129	20.00000	Averaged
14 Acrolein	0.04387	0.04537	0.04537	0.010	3.41788	20.00000	Averaged
16 Methylene Chloride	52.19504	50.00000	0.45416	0.010	4.39008	20.00000	Linear
17 Acetone	0.26534	0.24837	0.24837	0.010	-6.39678	20.00000	Averaged
18 trans-1,2-Dichloroethene	0.40768	0.44023	0.44023	0.010	7.98287	20.00000	Averaged
19 Methyl Acetate	0.36104	0.34943	0.34943	0.010	-3.21443	20.00000	Averaged
20 Hexane	58.91402	50.00000	0.46865	0.010	17.82804	20.00000	Linear
21 MTBE	0.89802	0.96936	0.96936	0.010	7.94361	20.00000	Averaged
26 1,1-Dichloroethane ++	0.56814	0.60734	0.60734	0.100	6.90019	20.00000	Averaged
27 Acrylonitrile	0.15038	0.15313	0.15313	0.010	1.82544	20.00000	Averaged
28 Vinyl Acetate	52.50874	50.00000	0.36467	0.010	5.01748	20.00000	Linear
29 cis-1,2-Dichloroethene	0.39674	0.41581	0.41581	0.010	4.80554	20.00000	Averaged
30 2,2-Dichloropropane	55.58436	50.00000	0.41264	0.010	11.16872	20.00000	Linear
32 Cyclohexane	52.09623	50.00000	0.58884	0.010	4.19247	20.00000	Linear
34 Bromochloromethane	0.15853	0.15542	0.15542	0.010	-1.95639	20.00000	Averaged
35 Chloroform +	48.92252	50.00000	0.56115	0.010	-2.15495	20.00000	Linear
36 Carbon Tetrachloride	48.76133	50.00000	0.37926	0.010	-2.47735	20.00000	Linear
41 1,1,1-Trichloroethane	0.44174	0.46522	0.46522	0.010	5.31484	20.00000	Averaged
$ 40 Dibromofluoromethane	0.25869	0.24302	0.24302	0.010	-6.05514	20.00000	Averaged
43 1,1-Dichloropropene	51.20195	50.00000	0.42486	0.010	2.40390	20.00000	Linear
44 2-Butanone	0.30110	0.29649	0.29649	0.010	-1.53175	20.00000	Averaged
46 Benzene	1.22934	1.26725	1.26725	0.010	3.08319	20.00000	Averaged
$ 50 1,2-Dichloroethane-d4	0.17131	0.16694	0.16694	0.010	-2.54705	20.00000	Averaged
51 1,2-Dichloroethane	0.47237	0.45986	0.45986	0.010	-2.64862	20.00000	Averaged
55 Methyl Cyclohexane	51.14365	50.00000	0.53868	0.010	2.28729	20.00000	Linear
56 Trichloroethene	0.34492	0.37335	0.37335	0.010	8.24083	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2279D.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111007.s.b/8260dodw12.m

Injection Date: 07-OCT-2011 07:04
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Dibromomethane	0.19888	0.19690	0.19690	0.010	-0.99456	20.00000	Averaged
59 1,2-Dichloropropane +	0.33394	0.35299	0.35299	0.010	5.70563	20.00000	Averaged
60 Bromodichloromethane	0.42540	0.40557	0.40557	0.010	-4.66034	20.00000	Averaged
65 1-Bromo-2-chloroethane	50.59122	50.00000	0.04870	0.010	1.18244	20.00000	Linear
64 2-Chloroethyl vinyl ether	50.20260	50.00000	0.13923	0.010	0.40521	20.00000	Linear
67 cis-1,3-Dichloropropene	0.32141	0.34018	0.34018	0.010	5.84131	20.00000	Averaged
$ 68 Toluene-d8	2.34853	2.37744	2.37744	0.010	1.23086	20.00000	Averaged
69 Toluene +	53.25448	50.00000	3.21744	0.010	6.50896	20.00000	Linear
71 Tetrachloroethene	51.60538	50.00000	0.69911	0.010	3.21075	20.00000	Linear
73 4-methyl-2-pentanone	0.53522	0.53727	0.53727	0.010	0.38293	20.00000	Averaged
74 trans-1,3-Dichloropropene	0.28210	0.28848	0.28848	0.010	2.25939	20.00000	Averaged
76 1,1,2-Trichloroethane	0.75001	0.74676	0.74676	0.010	-0.43344	20.00000	Averaged
78 Dibromochloromethane	0.78076	0.74155	0.74155	0.010	-5.02259	20.00000	Averaged
79 1,3-Dichloropropane	1.17961	1.22691	1.22691	0.010	4.00997	20.00000	Averaged
80 1,2-Dibromoethane(EDB)	0.70149	0.70996	0.70996	0.010	1.20660	20.00000	Averaged
83 2-Hexanone	0.91155	0.95623	0.95623	0.010	4.90136	20.00000	Averaged
85 Chlorobenzene ++	51.59425	50.00000	2.02840	0.300	3.18850	20.00000	Linear
86 1-Chlorohexane	49.77833	50.00000	0.36486	0.010	-0.44334	20.00000	Linear
87 Ethylbenzene +	50.18069	50.00000	1.10001	0.010	0.36138	20.00000	Linear
88 1,1,1,2-Tetrachloroethane	0.71400	0.70529	0.70529	0.010	-1.22011	20.00000	Averaged
89 p,m-Xylene	1.29672	1.33667	1.33667	0.010	3.08118	20.00000	Averaged
M 75 Total 1,2-Dichloroethene	0.40221	0.42802	0.42802	0.010	6.41581	20.00000	Averaged
90 o-Xylene	1.25659	1.34692	1.34692	0.010	7.18842	20.00000	Averaged
91 Styrene	1.88840	2.03093	2.03093	0.010	7.54744	20.00000	Averaged
92 Bromoform ++	0.59630	0.55569	0.55569	0.100	-6.81017	20.00000	Averaged
93 Isopropylbenzene	3.29610	3.55067	3.55067	0.010	7.72338	20.00000	Averaged
$ 95 Bromofluorobenzene	0.79764	0.80072	0.80072	0.010	0.38587	20.00000	Averaged
96 Bromobenzene	52.37977	50.00000	1.66284	0.010	4.75954	20.00000	Linear
M 82 1-3 Dichloropropene total	0.30175	0.31433	0.31433	0.010	4.16699	20.00000	Averaged
97 n-Propylbenzene	4.13189	4.36151	4.36151	0.010	5.55736	20.00000	Averaged
98 1,1,2,2-Tetrachloroethane++	1.14663	0.96837	0.96837	0.300	-15.54623	20.00000	Averaged
99 2-Chlorotoluene	2.93726	2.97707	2.97707	0.010	1.35540	20.00000	Averaged
102 1,3,5-Trimethylbenzene	3.03279	3.20276	3.20276	0.010	5.60432	20.00000	Averaged
100 1,2,3-Trichloropropane	1.35756	1.29952	1.29952	0.010	-4.27546	20.00000	Averaged
101 trans-1,4-Dichloro-2-Butene	0.18026	0.17804	0.17804	0.010	-1.23204	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msv12.i
Lab File ID: h2279D.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/msv12.i/2111007.s.b/8260dodw12.m

Injection Date: 07-OCT-2011 07:04
Init. Cal. Date(s): 20-AUG-2011 21-SEP-2011
Init. Cal. Times: 14:41 13:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
104 4-Chlorotoluene	2.43513	2.57122	2.57122	0.010	5.58864	20.00000	Averaged
105 tert-butylbenzene	1.70215	1.83636	1.83636	0.010	7.88489	20.00000	Averaged
107 1,2,4-Trimethylbenzene	2.87098	3.09505	3.09505	0.010	7.80466	20.00000	Averaged
108 sec-Butylbenzene	3.60569	3.94555	3.94555	0.010	9.42564	20.00000	Averaged
110 p-Isopropyltoluene	2.87376	3.22567	3.22567	0.010	12.24571	20.00000	Averaged
113 1,3-Dichlorobenzene	52.93705	50.00000	1.78625	0.010	5.87409	20.00000	Linear
115 1,4-Dichlorobenzene	54.14244	50.00000	1.76308	0.010	8.28489	20.00000	Linear
117 n-Butylbenzene	51.44584	50.00000	2.72925	0.010	2.89167	20.00000	Linear
118 1,2-Dichlorobenzene	1.72478	1.80218	1.80218	0.010	4.48723	20.00000	Averaged
119 1,2-Dibromo-3-Chloropropane	0.24035	0.24121	0.24121	0.010	0.35596	20.00000	Averaged
120 Hexachlorobutadiene	58.91052	50.00000	0.67056	0.010	17.82105	20.00000	Linear
122 1,2,4-Trichlorobenzene	1.09622	1.24028	1.24028	0.010	13.14233	20.00000	Averaged
124 Naphthalene	2.60988	2.81416	2.81416	0.010	7.82751	20.00000	Averaged
125 1,2,3-Trichlorobenzene	1.08478	1.20970	1.20970	0.010	11.51535	20.00000	Averaged
M 121 TOTAL XYLENE	1.38500	1.48065	1.48065	0.010	6.90594	20.00000	Averaged

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID (Standard): 2111002p/c7804D Date Analyzed: 10/02/11 Time: 1719

Instrument ID: MSV7 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 466401 Heated Burge: (Y/N) N

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT
STANDARD	795482	5.70	329533	9.30	345339	12.28

EPA Sample No.	IS1 Area	#	RT	#	IS2 Area	#	RT	#	IS3 Area	#	RT	#
LCS992655	910025		5.70		365529		9.30		400219		12.28	
LCSD992656	924725		5.70		369029		9.30		407698		12.28	
MB992654	886367		5.70		329849		9.30		342342		12.28	
MA01MW003	830768		5.70		309929		9.30		326194		12.28	
MA01MW001	804359		5.70		304161		9.30		302027		12.28	
MA01MW003-MS	772761		5.70		323565		9.30		353538		12.28	
MA01MW003-MSD	827421		5.70		335659		9.30		360370		12.28	
TB-1	803216		5.70		304145		9.30		303965		12.28	
MA01-MW004	761769		5.70		287662		9.30		291029		12.28	
MA01-MW002	736291		5.70		279787		9.30		280239		12.28	
TB-4	727221		5.70		272702		9.30		269321		12.28	

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

211092804 1TT

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID (Standard): 2111002p/c7804D Date Analyzed: 10/02/11 Time: 1719

Instrument ID: MSV7 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 466441 Heated Burge: (Y/N) N

	IS1 Area		IS1 RT		IS2 Area		IS2 RT		IS3 Area		IS3 RT	
STANDARD	795482		5.70		329533		9.30		345339		12.28	
EPA Sample No.		#		#		#		#		#		#
LCS992821	760531		5.70		312163		9.30		328979		12.28	
MB992820	735818		5.70		276749		9.30		274007		12.28	
MWQ-23	679621		5.70		256002		9.30		255857		12.28	

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab File ID (Standard): 2110921/h1757d Date Analyzed: 09/21/11 Time: 1251

Instrument ID: MSV12 GC Column: RTX-VMS-30M ID: .25 (mm)

Analytical Batch: 466398 Heated Burge: (Y/N) N

	IS1 Area	RT	IS2 Area	RT	IS3 Area	RT
STANDARD	314277	6.67	132950	9.14	125224	10.59
EPA Sample No.	#		#		#	
LCS992649	378272	6.67	154643	9.14	135235	10.59
LCSD992650	347379	6.67	143596	9.14	127317	10.59
MB992648	350905	6.68	134241	9.14	121960	10.59
MA02 MW001D	332194	6.67	125818	9.14	114059	10.59
FD-1	329046	6.68	126480	9.14	113915	10.59
TB-2	324395	6.68	125766	9.14	113963	10.59

IS 1 ID: Fluorobenzene
IS 2 ID: Chlorobenzene d5
IS 3 ID: 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No: _____ SAS No.: _____ SDG No.: 211092804

Lab File ID (Standard): 2110921/h1757d Date Analyzed: 9/21/2011

Instrument ID: MSV12 Time Analyzed: 12:51:00

GC Column: RTX-VMS-30M ID: .25 (mm) Heated Purge (Y/N): N

Analytical Batch: 466593

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area	RT
STANDARD	132950	9.14	125224	10.59	314277	6.67
EPA Sample						
EB-1	132589		9.14		117924		10.59		350682		6.67	
TB-6	128295		9.14		114100		10.59		339325		6.67	
MB993481	128941		9.14		116544		10.59		332576		6.68	
LCS993482	138000		9.14		126029		10.59		331007		6.67	
LCSD993483	142548		9.14		129435		10.59		349370		6.67	

IS 1 ID : Chlorobenzene-d5

IS 2 ID : 1,4-Dichlorobenzene-d4

IS 3 ID : Fluorobenzene

AREA UPPER LIMIT = +100%of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +.50 minutes of internal standard RT

RT LOWER LIMIT = -.50 minutes of internal standard RT

Column used to flag values outside QC limits

* Value outside QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL
Contract: _____

Lab Code: LA024 Case No: _____
SAS No.: _____ SDG No.: 211092804

Lab File ID (Standard): 2110921/h1757d
Date Analyzed: 09/21/2011

Instrument ID: MSV12
Time Analyzed: 07:04:00

GC Column: RTX-VMS-30M ID: .25 (mm)
Heated Purge (Y/N): N

Analytical Batch: 466778

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area	RT
STANDARD	132950	9.14	125224	10.59	314277	6.67

EPA Sample

M114MW001	130172		9.14		116501		10.59		337629		6.67	
M114MW002	131295		9.14		118037		10.59		344565		6.67	
M114MW003	130735		9.14		116310		10.59		334740		6.67	
M114MW004	128618		9.14		117784		10.59		335267		6.66	
TB-5	127128		9.14		116594		10.59		327299		6.68	
MB994448	133473		9.14		120622		10.59		351848		6.67	
LCS994449	138477		9.14		125331		10.59		338410		6.67	
LCSD994450	150993		9.14		130200		10.59		364393		6.67	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : 1,4-Dichlorobenzene-d4
IS 3 ID : Fluorobenzene

AREA UPPER LIMIT = +100%of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +.50 minutes of internal standard RT
RT LOWER LIMIT = -.50 minutes of internal standard RT

Column used to flag values outside QC limits
* Value outside QC limits

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 02-OCT-2011
Instrument: msv7.i
Analyst(s): JCK

Standard	Conc ppm		
BFB IS/SS	50	7-16-2	02/04/12
8260 IS/SS	50	7-16-2	02/04/12
8260	50	7-18-11	09/27/11
Ac/Ac/VA	250/50	7-18-2	01/30/12
2-CVE	50	7-17-9	02/23/12
8260 ICV	50	7-16-4	02/04/12
Ac/Ac/VA ICV	250/50	7-17-4	01/30/12
2-CVE ICV	50	7-15-6	01/24/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		c7797bfb.d	0.00 ml	02-OCT-2011 14:13	1.000	JCK	2
1000		c7797Dbfb.d	0.00 ml	02-OCT-2011 14:13	1.000	JCK	2
BLANK		c7798.d	0.00 ml	02-OCT-2011 15:03	1.000	JCK	2
1210		c7799.d	5.00 ml	02-OCT-2011 15:30	1.000	JCK	1
1208		c7800.d	5.00 ml	02-OCT-2011 15:56	1.000	JCK	1
1203		c7800D.d	5.00 ml	02-OCT-2011 15:56	1.000	JCK	1
1201		c7801.d	5.00 ml	02-OCT-2011 16:17	1.000	JCK	2
1204		c7801D.d	5.00 ml	02-OCT-2011 16:17	1.000	JCK	2
1206		c7802.d	5.00 ml	02-OCT-2011 16:38	1.000	JCK	3
1205		c7802D.d	5.00 ml	02-OCT-2011 16:38	1.000	JCK	3
1202		c7803.d	5.00 ml	02-OCT-2011 16:58	1.000	JCK	4
1206		c7803D.d	5.00 ml	02-OCT-2011 16:58	1.000	JCK	4
1203		c7804.d	5.00 ml	02-OCT-2011 17:19	1.000	JCK	5
1207		c7804D.d	5.00 ml	02-OCT-2011 17:19	1.000	JCK	5
1204		c7805.d	5.00 ml	02-OCT-2011 17:40	1.000	JCK	6
1208		c7805D.d	5.00 ml	02-OCT-2011 17:40	1.000	JCK	6
1205		c7806.d	5.00 ml	02-OCT-2011 18:01	1.000	JCK	7
1209		c7806D.d	5.00 ml	02-OCT-2011 18:01	1.000	JCK	7
BLANK		c7807.d	5.00 ml	02-OCT-2011 18:22	1.000	JCK	8
1600		c7808.d	5.00 ml	02-OCT-2011 18:43	1.000	JCK	9
1600		c7808D.d	5.00 ml	02-OCT-2011 18:43	1.000	JCK	9
992655		c7809.d	5.00 ml	02-OCT-2011 19:04	1.000	JCK	10
992656		c7810.d	5.00 ml	02-OCT-2011 19:25	1.000	JCK	11
MB		c7811.d	5.00 ml	02-OCT-2011 19:46	1.000	JCK	12
992654		c7812.d	5.00 ml	02-OCT-2011 20:07	1.000	JCK	13
21109280402		c7813.d	5.00 ml	02-OCT-2011 20:45	1.000		1
21109280401		c7814.d	5.00 ml	02-OCT-2011 21:06	1.000	JCK	2
21109280403		c7815ms.d	5.00 ml	02-OCT-2011 21:27	1.000	JCK	3
21109280404		c7816msd.d	5.00 ml	02-OCT-2011 21:48	1.000	JCK	3
BLANK		c7817.d	5.00 ml	02-OCT-2011 22:09	1.000	JCK	4
21109280405		c7818.d	5.00 ml	02-OCT-2011 22:30	1.000	JCK	5
21109280411		c7819.d	5.00 ml	02-OCT-2011 22:51	1.000	JCK	6
21109280412		c7820.d	5.00 ml	02-OCT-2011 23:12	1.000	JCK	7
21109280413		c7821.d	5.00 ml	02-OCT-2011 23:32	1.000	JCK	8
21109290201		c7822.d	5.00 ml	02-OCT-2011 23:53	1.000	JCK	9
21109290202		c7823.d	5.00 ml	03-OCT-2011 00:14	1.000	JCK	10

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 03-OCT-2011
Instrument: msv7.i
Analyst(s): CLH

Standard	Conc ppm	STD#	EXP
BFB IS/SS	50	7-16-2	02/04/12
624 IS/SS	50	7-18-5	03/01/12
8260	50	7-19-5	10/07/11
Ac/Ac/VA	250/50	7-19-1	03/23/12
2-CVE	50	7-19-9	03/25/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		c7826bfb.d	0.00 ml	03-OCT-2011 06:33	1.000	cgc	2
1000		c7826.d	0.00 ml	03-OCT-2011 06:33	1.000	cgc	2
1400		c7827.d	5.00 ml	03-OCT-2011 07:13	1.000	CGC	1
LCSD		c7828.d	5.00 ml	03-OCT-2011 07:59	1.000	CGC	2
1400		c7828D.d	5.00 ml	03-OCT-2011 07:59	1.000	CGC	2
992821		c7828LD.d	5.00 ml	03-OCT-2011 07:59	1.000	CGC	2
BLANK		c7829.d	5.00 ml	03-OCT-2011 08:19	1.000	CGC	3
992820		c7830.d	5.00 ml	03-OCT-2011 08:40	1.000	CGC	4
624LCS	RR	c7831.d	5.00 ml	03-OCT-2011 09:37	1.000	SLR	5
1400		c7832c.d	5.00 ml	03-OCT-2011 10:33	1.000	SLR	6
992724	624 LCS	c7832.d	5.00 ml	03-OCT-2011 10:33	1.000	SLR	6
BLANK		c7833.d	5.00 ml	03-OCT-2011 10:54	1.000	SLR	7
992723		c7834.d	5.00 ml	03-OCT-2011 11:15	1.000	SLR	8
21109301901		c7835.d	5.00 ml	03-OCT-2011 11:57	1.000	SLR	9
21109301902		c7836.d	5.00 ml	03-OCT-2011 12:18	1.000	SLR	10
21109290206	RR 1X TCE MULT. DILUTION	c7837.d	5.00 ml	03-OCT-2011 13:03	5.000	SLR	11
21109290211		c7838.d	5.00 ml	03-OCT-2011 13:24	1.000	SLR	12
21109280410		c7839.d	5.00 ml	03-OCT-2011 13:45	1.000	SLR	11
21109290207	RR 1X MULT. DILUTION	c7840.d	5.00 ml	03-OCT-2011 14:17	5.000	SLR	12
21109290208	''	c7841.d	5.00 ml	03-OCT-2011 14:38	5.000	SLR	12
BLANK		c7842.d	5.00 ml	03-OCT-2011 14:59	5.000	SLR	13
21109290210	RR 1X MULT. DILUTION	c7843.d	5.00 ml	03-OCT-2011 15:20	20.000	SLR	14
21109290204	''	c7844.d	5.00 ml	03-OCT-2011 15:41	10.000	SLR	15
21109301903		c7845.d	5.00 ml	03-OCT-2011 16:01	1.000	SLR	16
21109301904	RR 2X MULT. DILUTION	c7846.d	5.00 ml	03-OCT-2011 16:24	20.000	SLR	17
21109301905	RR 5X MULT. DILUTION	c7847.d	5.00 ml	03-OCT-2011 16:45	50.000	SLR	18
21109301906	RR 10X MULT. DILUTION	c7848.d	5.00 ml	03-OCT-2011 17:06	100.000	SLR	19
21109280313	RR 5X	c7849.d	5.00 ml	03-OCT-2011 17:27	1.000	SLR	20
blank		c7850.d	5.00 ml	03-OCT-2011 18:20	2.000	SLR	21
blank		c7851.d	5.00 ml	03-OCT-2011 18:41	1.000	SLR	22
624BLANK	624 ""	c7852.d	5.00 ml	03-OCT-2011 19:31	1.000	SLR	23
21110032801		c7853.d	5.00 ml	03-OCT-2011 20:07	1.000	SLR	24
21110032802		c7854.d	5.00 ml	03-OCT-2011 20:27	1.000	SLR	25
21110032803		c7855.d	5.00 ml	03-OCT-2011 20:48	1.000	SLR	26
993007		c7856.d	5.00 ml	03-OCT-2011 21:26	1.000	SLR	27

Tune Time - 06:33 10/4/11

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 21-SEP-2011
Instrument: msv12.i
Analyst(s): SLR

Standard	Conc ppm		
BFB IS/SS	50	7-16-2	02/04/12
8260 IS/SS	50	7-16-2	02/04/12
8260	50	7-18-11	09/27/11
Ac/Ac/VA	250/50	7-18-2	01/30/12
2-CVE	50	7-17-9	02/23/12
8260 ICV	50	7-16-4	02/04/12
Ac/Ac/VA ICV	250/50	7-17-4	01/30/12
2-CVE ICV	50	7-15-6	01/24/12
APP9-1	50	7-17-2	02/12/12
APP9-2	50	7-17-11	02/25/12
THF	50	7-14-8	01/14/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		h1746.d	0.00 ml	21-SEP-2011 06:53	1.000	LBH	2
1400	RR	h1747.d	5.00 g	21-SEP-2011 07:29	1.000	LBH	2
1400	APP9	h1748.d	5.00 g	21-SEP-2011 08:01	1.000	LBH	3
1400	RR-NEW STD	h1749.d	5.00 g	21-SEP-2011 08:23	1.000	LBH	4
1400	RECALIBRATE	h1750.d	5.00 g	21-SEP-2011 09:06	1.000	LBH	5
BLANK		h1751.d	5.00 g	21-SEP-2011 10:17	1.000	LBH	6
1000		h1752bfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1000		h1752dbfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1000		h1752wbfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1208	8260 ICAL	h1753.d	5.00 ml	21-SEP-2011 11:23	1.000	LBH	8
1203		h1753d.d	5.00 ml	21-SEP-2011 11:23	1.000	LBH	8
1201		h1754.d	5.00 ml	21-SEP-2011 11:47	1.000	LBH	9
1204		h1754d.d	5.00 ml	21-SEP-2011 11:47	1.000	LBH	9
1206		h1755.d	5.00 ml	21-SEP-2011 12:08	1.000	LBH	10
1205		h1755d.d	5.00 ml	21-SEP-2011 12:08	1.000	LBH	10
1202		h1756.d	5.00 ml	21-SEP-2011 12:29	1.000	LBH	11
1206		h1756d.d	5.00 ml	21-SEP-2011 12:29	1.000	LBH	11
1203		h1757.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1207		h1757d.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1400	S-M CCV	h1757s.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1204		h1758.d	5.00 ml	21-SEP-2011 13:24	1.000	LBH	13
1208		h1758d.d	5.00 ml	21-SEP-2011 13:24	1.000	LBH	13
1205		h1759.d	5.00 ml	21-SEP-2011 13:51	1.000	LBH	14
1209		h1759d.d	5.00 ml	21-SEP-2011 13:51	1.000	LBH	14
1600		h1760.d	5.00 g	21-SEP-2011 16:01	1.000	LBH	15
1600		h1760d.d	5.00 ml	21-SEP-2011 16:01	1.000	LBH	15
989521		h1761.d	5.00 g	21-SEP-2011 16:37	50.000	LBH	16
989511		h1761d.d	5.00 ml	21-SEP-2011 16:37	1.000	LBH	16
989522		h1762.d	5.00 g	21-SEP-2011 16:58	50.000	LBH	17
989512		h1762d.d	5.00 ml	21-SEP-2011 16:58	1.000	LBH	17
1400	APP9	h1763.d	5.00 ml	21-SEP-2011 17:20	1.000	LBH	18
1400		h1763d.d	5.00 ml	21-SEP-2011 17:20	1.000	LBH	18
BLANK		h1764.d	5.00 g	21-SEP-2011 17:41	1.000	LBH	19
989510		h1765d.d	5.00 ml	21-SEP-2011 18:02	1.000	LBH	20
989520		h1766.d	5.00 g	21-SEP-2011 18:23	50.000	CLH	21
21109161806		h1767.d	5.00 ml	21-SEP-2011 18:45	1.000	CLH	22

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 02-OCT-2011
Instrument: msv12.i
Analyst(s): CLH
EDS

Standard	Conc ppm		
BFB IS/SS	50	7-16-2	02/04/12
8260 IS/SS	50	7-16-2	02/04/12
8260	50	7-19-5	10/07/11
Ac/Ac/VA	250/50	7-18-2	01/30/12
2-CVE	50	7-17-9	02/23/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		h2063.d	0.00 ml	02-OCT-2011 11:05	1.000	CLH	2
1400		h2064.d	5.00 ml	02-OCT-2011 11:44	1.000	CLH	1
992649		h2064L.d	5.00 ml	02-OCT-2011 11:44	1.000	CLH	1
992650		h2065.d	5.00 ml	02-OCT-2011 12:06	1.000	CLH	2
MB		h2066.d	5.00 ml	02-OCT-2011 12:42	1.000	CLH	3
992648		h2067.d	5.00 ml	02-OCT-2011 13:03	1.000	CLH	4
21109220203	LRNO w MSV-11 2110930 BATCH 22915	h2068.d	5.00 ml	02-OCT-2011 13:24	1.000	CLH	5
BLANK		h2069.d	5.00 ml	02-OCT-2011 13:45	1.000	CLH	6
BLANK		h2070.d	5.00 ml	02-OCT-2011 14:06	1.000	CLH	7
21109280306		h2071.d	5.00 ml	02-OCT-2011 14:30	2.000	CLH	8
BLANK		h2072.d	5.00 ml	02-OCT-2011 14:51	1.000	CLH	9
21109280307	LRNO w MSV-11 2110930 BATCH 22915	h2073.d	5.00 ml	02-OCT-2011 15:15	5.000	CLH	10
21109280308	LRNO w MSV-11 2110930 BATCH 22915	h2074.d	5.00 ml	02-OCT-2011 15:38	5.000	CLH	11
21109280309	LRNO w MSV-11 2110930 BATCH 22915	h2075.d	5.00 ml	02-OCT-2011 16:02	5.000	CLH	12
21109280310	LRNO w LOW DILUTION	h2076.d	5.00 ml	02-OCT-2011 16:26	5.000	CLH	13
21109280310	LRNO w HIGH DILUTION	h2077.d	5.00 ml	02-OCT-2011 16:47	1.000	CLH	13
BLANK		h2078.d	5.00 ml	02-OCT-2011 17:09	1.000	CLH	14
BLANK		h2079.d	5.00 ml	02-OCT-2011 17:30	1.000	CLH	15
21109280311	LRNO w LOW DILUTION	h2080.d	5.00 ml	02-OCT-2011 17:54	25.000	CLH	16
BLANK		h2081.d	5.00 ml	02-OCT-2011 18:15	1.000	CLH	15
21109280311	LRNO w HIGH DILUTION	h2082.d	5.00 ml	02-OCT-2011 18:39	2.000	CLH	16
BLANK		h2083.d	5.00 ml	02-OCT-2011 19:00	1.000	CLH	17
21109280312	LRNO w LOW DILUTION	h2084.d	5.00 ml	02-OCT-2011 19:24	5.000	EDS	18
21109280313	LRNO w LOW DILUTION	h2085.d	5.00 ml	02-OCT-2011 19:48	5.000	EDS	19
21109280312	LRNO w HIGH DILUTION	h2086.d	5.00 ml	02-OCT-2011 20:09	1.000	EDS	18
21109280313	LRNO w HIGH DILUTION	h2087.d	5.00 ml	02-OCT-2011 20:30	1.000	EDS	19
BLANK		h2088.d	5.00 ml	02-OCT-2011 20:51	1.000	EDS	20
BLANK		h2089.d	5.00 ml	02-OCT-2011 21:12	1.000	EDS	21
21109280407		h2090.d	5.00 ml	02-OCT-2011 21:33	1.000	EDS	22
21109280408		h2091.d	5.00 ml	02-OCT-2011 21:54	1.000	EDS	23
21109280409		h2092.d	5.00 ml	02-OCT-2011 22:15	1.000	EDS	24
2109280410	NOT USED	h2093.d	5.00 ml	03-OCT-2011 06:07	1.000	EDS	25

TUNE TIME 23:05 10/02/2011

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 21-SEP-2011
Instrument: msv12.i
Analyst(s): SLR

Standard	Conc ppm		
BFB IS/SS	50	7-16-2	02/04/12
8260 IS/SS	50	7-16-2	02/04/12
8260	50	7-18-11	09/27/11
Ac/Ac/VA	250/50	7-18-2	01/30/12
2-CVE	50	7-17-9	02/23/12
8260 ICV	50	7-16-4	02/04/12
Ac/Ac/VA ICV	250/50	7-17-4	01/30/12
2-CVE ICV	50	7-15-6	01/24/12
APP9-1	50	7-17-2	02/12/12
APP9-2	50	7-17-11	02/25/12
THF	50	7-14-8	01/14/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		h1746.d	0.00 ml	21-SEP-2011 06:53	1.000	LBH	2
1400	RR	h1747.d	5.00 g	21-SEP-2011 07:29	1.000	LBH	2
1400	APP9	h1748.d	5.00 g	21-SEP-2011 08:01	1.000	LBH	3
1400	RR-NEW STD	h1749.d	5.00 g	21-SEP-2011 08:23	1.000	LBH	4
1400	RECALIBRATE	h1750.d	5.00 g	21-SEP-2011 09:06	1.000	LBH	5
BLANK		h1751.d	5.00 g	21-SEP-2011 10:17	1.000	LBH	6
1000		h1752bfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1000		h1752dbfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1000		h1752wbfb.d	0.00 ml	21-SEP-2011 10:38	1.000	LBH	2
1208	8260 ICAL	h1753.d	5.00 ml	21-SEP-2011 11:23	1.000	LBH	8
1203		h1753d.d	5.00 ml	21-SEP-2011 11:23	1.000	LBH	8
1201		h1754.d	5.00 ml	21-SEP-2011 11:47	1.000	LBH	9
1204		h1754d.d	5.00 ml	21-SEP-2011 11:47	1.000	LBH	9
1206		h1755.d	5.00 ml	21-SEP-2011 12:08	1.000	LBH	10
1205		h1755d.d	5.00 ml	21-SEP-2011 12:08	1.000	LBH	10
1202		h1756.d	5.00 ml	21-SEP-2011 12:29	1.000	LBH	11
1206		h1756d.d	5.00 ml	21-SEP-2011 12:29	1.000	LBH	11
1203		h1757.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1207		h1757d.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1400	S-M CCV	h1757s.d	5.00 ml	21-SEP-2011 12:51	1.000	LBH	12
1204		h1758.d	5.00 ml	21-SEP-2011 13:24	1.000	LBH	13
1208		h1758d.d	5.00 ml	21-SEP-2011 13:24	1.000	LBH	13
1205		h1759.d	5.00 ml	21-SEP-2011 13:51	1.000	LBH	14
1209		h1759d.d	5.00 ml	21-SEP-2011 13:51	1.000	LBH	14
1600		h1760.d	5.00 g	21-SEP-2011 16:01	1.000	LBH	15
1600		h1760d.d	5.00 ml	21-SEP-2011 16:01	1.000	LBH	15
989521		h1761.d	5.00 g	21-SEP-2011 16:37	50.000	LBH	16
989511		h1761d.d	5.00 ml	21-SEP-2011 16:37	1.000	LBH	16
989522		h1762.d	5.00 g	21-SEP-2011 16:58	50.000	LBH	17
989512		h1762d.d	5.00 ml	21-SEP-2011 16:58	1.000	LBH	17
1400	APP9	h1763.d	5.00 ml	21-SEP-2011 17:20	1.000	LBH	18
1400		h1763d.d	5.00 ml	21-SEP-2011 17:20	1.000	LBH	18
BLANK		h1764.d	5.00 g	21-SEP-2011 17:41	1.000	LBH	19
989510		h1765d.d	5.00 ml	21-SEP-2011 18:02	1.000	LBH	20
989520		h1766.d	5.00 g	21-SEP-2011 18:23	50.000	CLH	21
21109161806		h1767.d	5.00 ml	21-SEP-2011 18:45	1.000	CLH	22

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 21-SEP-2011
Instrument: msv12.i
Analyst(s): LBH

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
21109161807		h1768.d	5.00 ml	21-SEP-2011 19:06	1.000	CLH	23
21109161812		h1769.d	5.00 ml	21-SEP-2011 19:27	1.000	CLH	24
21109200701		h1770.d	5.00 ml	21-SEP-2011 19:48	1.000	CLH	25
21109201304		h1771.d	5.00 ml	21-SEP-2011 20:10	1.000	CLH	26
21109201305		h1772.d	5.00 ml	21-SEP-2011 20:31	1.000	CLH	27
21109204106	j|RR LOW	h1773.d	5.40 g	21-SEP-2011 20:57	50.000	CLH	28
21109204107	j|RR LOW	h1774.d	4.16 g	21-SEP-2011 21:18	50.000	LBH	29
21109204112	j|	h1775.d	5.27 g	21-SEP-2011 21:40	50.000	LBH	30
21109154001	j|	h1776.d	5.06 g	21-SEP-2011 22:01	50.000	LBH	31

TUNE = 22:38

LABORATORY CHRONICLE: MSV DEPARTMENT

Date: 07-OCT-2011
Instrument: msv12.i
Analyst(s): EDS, CGC

Standard	Conc ppm		
BFB IS/SS	50	7-16-2	02/04/12
8260 IS/SS	50	7-16-2	02/04/12
8260	50	7-19-5	10/07/11
Ac/Ac/VA	250/50	7-19-10	01/30/12
2-CVE	50	7-19-9	03/25/12
APP9-1	50	7-19-11	04/01/12
APP9-2	50	7-19-6	03/24/12
THF	50	7-19-7	03/24/12

Sample ID	Comments	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS
1000		h2278.d	0.00 ml	07-OCT-2011 06:23	1.000	CGC	2
1000		h2278D.d	0.00 ml	07-OCT-2011 06:23	1.000	CGC	2
1400		h2279.d	5.00 ml	07-OCT-2011 07:04	1.000	CGC	1
1400		h2279D.d	5.00 ml	07-OCT-2011 07:04	1.000	CGC	1
994449		h2279DL.d	5.00 ml	07-OCT-2011 07:04	1.000	CGC	1
994452		h2279L.d	5.00 ml	07-OCT-2011 07:04	1.000	CGC	1
994453		h2280.d	5.00 ml	07-OCT-2011 07:59	1.000	CGC	2
994450		h2280D.d	5.00 ml	07-OCT-2011 07:59	1.000	CGC	2
1400		h2281.d	5.00 ml	07-OCT-2011 08:47	1.000	CGC	3
1400		h2281D.d	5.00 ml	07-OCT-2011 08:47	1.000	CGC	3
BLANK		h2282.d	5.00 ml	07-OCT-2011 09:34	1.000	CGC	4
BLANK		h2283.d	5.00 ml	07-OCT-2011 09:55	1.000	CGC	5
994451		h2284.d	5.00 ml	07-OCT-2011 10:19	1.000	CGC	6
994448		h2284D.d	5.00 ml	07-OCT-2011 10:19	1.000	CGC	6
21110030407		h2285.d	5.00 ml	07-OCT-2011 11:32	1.000	EDS	7
21110030408		h2286.d	5.00 ml	07-OCT-2011 11:53	1.000	EDS	8
21110030409		h2287.d	5.00 ml	07-OCT-2011 12:14	1.000	EDS	9
21110010501		h2288.d	5.00 ml	07-OCT-2011 12:35	1.000	EDS	10
21110010502		h2289.d	5.00 ml	07-OCT-2011 12:56	1.000	EDS	11
21110010503		h2290.d	5.00 ml	07-OCT-2011 13:17	1.000	EDS	12
21110071001		h2291.d	5.00 ml	07-OCT-2011 13:58	1.000	EDS	13
21110010505		h2292.d	5.00 ml	07-OCT-2011 14:19	1.000	EDS	14
21110010506		h2293.d	5.00 ml	07-OCT-2011 14:41	1.000	EDS	15
21110058001		h2294.d	5.00 ml	07-OCT-2011 15:02	1.000	EDS	16
21110058002		h2295.d	5.00 ml	07-OCT-2011 15:23	1.000	EDS	17
21110058003		h2296.d	5.00 ml	07-OCT-2011 15:44	1.000	EDS	18
21110058004		h2297.d	5.00 ml	07-OCT-2011 16:05	1.000	EDS	19
21110058005		h2298.d	5.00 ml	07-OCT-2011 16:27	1.000	EDS	20
21110058006		h2299.d	5.00 ml	07-OCT-2011 16:48	1.000	EDS	21
21110058007		h2300.d	5.00 ml	07-OCT-2011 17:09	1.000	EDS	22
21110058008		h2301.d	5.00 ml	07-OCT-2011 17:53	1.000	EDS	23

TUNE TIME: 18:24 10/07/2011

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21109280401

Level: (low/med) LOW | Date Collected: 09/27/11 | Time: 0933

% Moisture: | decanted: (Y/N) | Date Received: 09/28/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 1802

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: *ug/L* | Lab File ID: 2111005/a19947

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21109280402

Level: (low/med) LOW | Date Collected: 09/27/11 | Time: 1221

% Moisture: | decanted: (Y/N) | Date Received: 09/28/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 1849

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19948

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21109280403

Level: (low/med) LOW | Date Collected: 09/27/11 | Time: 1221

% Moisture: | decanted: (Y/N) | Date Received: 09/28/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 1936

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: *ug/L* | Lab File ID: 2111005/a19949

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	2.07		0.140	0.505
99-65-0	1,3-Dinitrobenzene	2.09		0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	1.94		0.306	1.01
121-14-2	2,4-Dinitrotoluene	2.16		0.126	0.505
606-20-2	2,6-Dinitrotoluene	1.89		0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	1.85		0.126	0.505
88-72-2	2-Nitrotoluene	1.70		0.090	0.505
99-08-1	3-Nitrotoluene	1.51		0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	1.51		0.109	0.505
99-99-0	4-Nitrotoluene	1.42		0.117	0.505
2691-41-0	HMX	2.30		0.035	0.202
98-95-3	Nitrobenzene	2.04		0.137	0.505
121-82-4	RDX	1.78		0.067	0.202
479-45-8	Tetryl	1.21		0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21109280404

Level: (low/med) LOW | Date Collected: 09/27/11 | Time: 1221

% Moisture: | decanted: (Y/N) | Date Received: 09/28/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 (µL) | Date Analyzed: 10/05/11 | Time: 2023

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19950

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	1.74		0.140	0.505
99-65-0	1,3-Dinitrobenzene	1.70		0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	1.68		0.306	1.01
121-14-2	2,4-Dinitrotoluene	1.75		0.126	0.505
606-20-2	2,6-Dinitrotoluene	1.46		0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	1.66		0.126	0.505
88-72-2	2-Nitrotoluene	1.44		0.090	0.505
99-08-1	3-Nitrotoluene	1.15		0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	1.33		0.109	0.505
99-99-0	4-Nitrotoluene	1.10		0.117	0.505
2691-41-0	HMX	1.84		0.035	0.202
98-95-3	Nitrobenzene	1.67		0.137	0.505
121-82-4	RDX	1.39		0.067	0.202
479-45-8	Tetryl	0.919		0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA02 MW001D

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21109280407

Level: (low/med) LOW | Date Collected: 09/28/11 | Time: 1028

% Moisture: | decanted: (Y/N) | Date Received: 09/29/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 2110

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19951

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: FD-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 970 | Units: mL | Lab Sample ID: 21109280408

Level: (low/med) LOW | Date Collected: 09/28/11 | Time: 1028

% Moisture: | decanted: (Y/N) | Date Received: 09/29/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 2259

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: *ug/L* | Lab File ID: 2111005/a19953

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.143	U	0.143	0.515
99-65-0	1,3-Dinitrobenzene	0.260	U	0.260	1.03
118-96-7	2,4,6-Trinitrotoluene	0.312	U	0.312	1.03
121-14-2	2,4-Dinitrotoluene	0.129	U	0.129	0.515
606-20-2	2,6-Dinitrotoluene	0.111	U	0.111	0.515
355-72-78-	2-Amino-4,6-dinitrotoluene	0.129	U	0.129	0.515
88-72-2	2-Nitrotoluene	0.092	U	0.092	0.515
99-08-1	3-Nitrotoluene	0.110	U	0.110	0.515
1946-51-0	4-Amino-2,6-dinitrotoluene	0.111	U	0.111	0.515
99-99-0	4-Nitrotoluene	0.120	U	0.120	0.515
2691-41-0	HMX	0.036	U	0.036	0.206
98-95-3	Nitrobenzene	0.140	U	0.140	0.515
121-82-4	RDX	0.068	U	0.068	0.206
479-45-8	Tetryl	0.206	U	0.206	0.515

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MWQ-23

Lab Code: LA024 Case No.:
Contract:

Matrix: Water
SAS No.: SDG No.: 211092804

Sample wt/vol: 990 Units: mL
Lab Sample ID: 21109280410

Level: (low/med) LOW
Date Collected: 09/29/11 Time: 0840

% Moisture: decanted: (Y/N)
Date Received: 09/30/11

GC Column: ID: (mm)
Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 (µL)
Date Analyzed: 10/05/11 Time: 2346

Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: BMR

Injection Volume: 1 (µL)
Prep Method: 8330

GPC Cleanup: (Y/N) N pH:
Analytical Method: SW846 8330

Prep Batch: 466485 Analytical Batch: 466694
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L
Lab File ID: 2111005/a19954

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	UJ	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	UJ	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	UJ	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	UJ	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	UJ	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	UJ	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	UJ	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	UJ	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	UJ	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	UJ	0.117	0.505
2691-41-0	HMX	0.035	UJ	0.035	0.202
98-95-3	Nitrobenzene	0.137	UJ	0.137	0.505
121-82-4	RDX	0.067	UJ	0.067	0.202
479-45-8	Tetryl	0.202	UJ	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 990 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 466485 Analytical Batch: 466694

CONCENTRATION UNITS: ug/L

Sample ID: MA01-MW004

Contract:

SAS No.: SDG No.: 211092804

Lab Sample ID: 21109280411

Date Collected: 09/29/11 Time: 1110

Date Received: 09/30/11

Date Extracted: 10/04/11

Date Analyzed: 10/06/11 Time: 0033

Dilution Factor: 1 Analyst: BMR

Prep Method: 8330

Analytical Method: SW846 8330

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2

Lab File ID: 2111005/a19955

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 960 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 466485 Analytical Batch: 466694

Sample ID: MA01-MW002
Contract:
SAS No.: SDG No.: 211092804
Lab Sample ID: 21109280412
Date Collected: 09/29/11 Time: 1306
Date Received: 09/30/11
Date Extracted: 10/04/11
Date Analyzed: 10/06/11 Time: 0120
Dilution Factor: 1 Analyst: BMR
Prep Method: 8330
Analytical Method: SW846 8330
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2
Lab File ID: 2111005/a19956

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.145	UJ	0.145	0.521
99-65-0	1,3-Dinitrobenzene	0.263	UJ	0.263	1.04
118-96-7	2,4,6-Trinitrotoluene	0.316	UJ	0.316	1.04
121-14-2	2,4-Dinitrotoluene	0.130	UJ	0.130	0.521
606-20-2	2,6-Dinitrotoluene	0.113	UJ	0.113	0.521
355-72-78-	2-Amino-4,6-dinitrotoluene	0.130	UJ	0.130	0.521
88-72-2	2-Nitrotoluene	0.093	UJ	0.093	0.521
99-08-1	3-Nitrotoluene	0.111	UJ	0.111	0.521
1946-51-0	4-Amino-2,6-dinitrotoluene	0.113	UJ	0.113	0.521
99-99-0	4-Nitrotoluene	0.121	UJ	0.121	0.521
2691-41-0	HMX	0.036	UJ	0.036	0.208
98-95-3	Nitrobenzene	0.142	UJ	0.142	0.521
121-82-4	RDX	0.069	UJ	0.069	0.208
479-45-8	Tetryl	0.208	UJ	0.208	0.521

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 990 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 466485 Analytical Batch: 466694

Sample ID: M114MW004
Contract:
SAS No.: SDG No.: 211092804
Lab Sample ID: 21110010501
Date Collected: 09/30/11 Time: 1000
Date Received: 10/01/11
Date Extracted: 10/04/11
Date Analyzed: 10/06/11 Time: 0207
Dilution Factor: 1 Analyst: BMR
Prep Method: 8330
Analytical Method: SW846 8330
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 2
Lab File ID: 2111005/a19957

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21110010502

Level: (low/med) LOW | Date Collected: 09/30/11 | Time: 1236

% Moisture: | decanted: (Y/N) | Date Received: 10/01/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/06/11 | Time: 0254

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19958

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21110010504

Level: (low/med) LOW | Date Collected: 10/03/11 | Time: 0800

% Moisture: | decanted: (Y/N) | Date Received: 10/04/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/06/11 | Time: 0341

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19959

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	U	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	U	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	U	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	U	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	U	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	U	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	U	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	U	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	U	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	U	0.117	0.505
2691-41-0	HMX	0.035	U	0.035	0.202
98-95-3	Nitrobenzene	0.137	U	0.137	0.505
121-82-4	RDX	0.067	U	0.067	0.202
479-45-8	Tetryl	0.202	U	0.202	0.505

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1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21110010505

Level: (low/med) LOW | Date Collected: 10/03/11 | Time: 0932

% Moisture: | decanted: (Y/N) | Date Received: 10/04/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/06/11 | Time: 0428

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: *ug/L* | Lab File ID: 2111005/a19960

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	UJ	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	UJ	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	UJ	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	UJ	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	UJ	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	UJ	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	UJ	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	UJ	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	UJ	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	UJ	0.117	0.505
2691-41-0	HMX	0.035	UJ	0.035	0.202
98-95-3	Nitrobenzene	0.137	UJ	0.137	0.505
121-82-4	RDX	0.067	UJ	0.067	0.202
479-45-8	Tetryl	0.202	UJ	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 990 | Units: mL | Lab Sample ID: 21110010506

Level: (low/med) LOW | Date Collected: 10/03/11 | Time: 1146

% Moisture: | decanted: (Y/N) | Date Received: 10/04/11

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/06/11 | Time: 0515

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19961

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
99-35-4	1,3,5-Trinitrobenzene	0.140	UJ	0.140	0.505
99-65-0	1,3-Dinitrobenzene	0.255	UJ	0.255	1.01
118-96-7	2,4,6-Trinitrotoluene	0.306	UJ	0.306	1.01
121-14-2	2,4-Dinitrotoluene	0.126	UJ	0.126	0.505
606-20-2	2,6-Dinitrotoluene	0.109	UJ	0.109	0.505
355-72-78-	2-Amino-4,6-dinitrotoluene	0.126	UJ	0.126	0.505
88-72-2	2-Nitrotoluene	0.090	UJ	0.090	0.505
99-08-1	3-Nitrotoluene	0.108	UJ	0.108	0.505
1946-51-0	4-Amino-2,6-dinitrotoluene	0.109	UJ	0.109	0.505
99-99-0	4-Nitrotoluene	0.117	UJ	0.117	0.505
2691-41-0	HMX	0.035	UJ	0.035	0.202
98-95-3	Nitrobenzene	0.137	UJ	0.137	0.505
121-82-4	RDX	0.067	UJ	0.067	0.202
479-45-8	Tetryl	0.202	UJ	0.202	0.505

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MB993011

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 211092804

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 993011

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | decanted: (Y/N) | Date Received:

GC Column: | ID: | (mm) | Date Extracted: 10/04/11

Concentrated Extract Volume: 10000 | (µL) | Date Analyzed: 10/05/11 | Time: 1541

Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: BMR

Injection Volume: 1 | (µL) | Prep Method: 8330

GPC Cleanup: (Y/N) N | pH: | Analytical Method: SW846 8330

Prep Batch: 466485 | Analytical Batch: 466694 | Sulfur Cleanup: (Y/N) N | Instrument ID: HPLC 2

CONCENTRATION UNITS: ug/L | Lab File ID: 2111005/a19944

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
2691-41-0	HMX	0.035	U	0.035	0.200
121-82-4	RDX	0.066	U	0.066	0.200
99-35-4	1,3,5-Trinitrobenzene	0.139	U	0.139	0.500
99-65-0	1,3-Dinitrobenzene	0.252	U	0.252	1.00
479-45-8	Tetryl	0.200	U	0.200	0.500
98-95-3	Nitrobenzene	0.136	U	0.136	0.500
118-96-7	2,4,6-Trinitrotoluene	0.303	U	0.303	1.00
1946-51-0	4-Amino-2,6-dinitrotoluene	0.108	U	0.108	0.500
355-72-78-	2-Amino-4,6-dinitrotoluene	0.125	U	0.125	0.500
121-14-2	2,4-Dinitrotoluene	0.125	U	0.125	0.500
606-20-2	2,6-Dinitrotoluene	0.108	U	0.108	0.500
88-72-2	2-Nitrotoluene	0.089	U	0.089	0.500
99-08-1	3-Nitrotoluene	0.107	U	0.107	0.500
99-99-0	4-Nitrotoluene	0.116	U	0.116	0.500

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW846 8330

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	MA01MW001	71	70	130														0
2 .	MA01MW003	92	70	130														0
3 .	MA01MW003-MS	84	70	130														0
4 .	MA01MW003-MSD	86	70	130														0
5 .	MA02 MW001D	78	70	130														0
6 .	FD-1	86	70	130														0
7 .	MWQ-23	68	70	130	*													1
8 .	MA01-MW004	70	70	130														0
9 .	MA01-MW002	60	70	130	*													1
10 .	M114MW004	74	70	130														0
11 .	M114MW001	78	70	130														0
12 .	EB-1	104	70	130														0
13 .	M114MW002	61	70	130	*													1
14 .	M114MW003	67	70	130	*													1
15 .	MB993011	117	70	130														0
16 .	LCS993012	78	70	130														0
17 .	LCSD993013	76	70	130														0

SMC 1 : 1,2-Dinitrobenzene SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

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3E

WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: MA01MW003

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Contract: Method: SW846 8330

Prep Batch: 466485 Analytical Batch: 466694

SAMPLE NO : 21109280403

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*MS % REC FLAG*	*QC. LIMITS*
1,3,5-Trinitrobenzene	ug/L	2.02	0	2.07	102		65 - 140
1,3-Dinitrobenzene	ug/L	4.04	0	2.09	52		45 - 160
2,4,6-Trinitrotoluene	ug/L	2.02	0	1.94	96		50 - 145
2,4-Dinitrotoluene	ug/L	2.02	0	2.16	107		60 - 135
2,6-Dinitrotoluene	ug/L	2.02	0	1.89	94		60 - 135
2-Amino-4,6-dinitrotoluene	ug/L	2.02	0	1.85	92		50 - 155
2-Nitrotoluene	ug/L	2.02	0	1.7	84		45 - 135
3-Nitrotoluene	ug/L	2.02	0	1.51	75		50 - 130
4-Amino-2,6-dinitrotoluene	ug/L	2.02	0	1.51	75		55 - 155
4-Nitrotoluene	ug/L	2.02	0	1.42	70		50 - 130
HMX	ug/L	2.02	0	2.3	114		80 - 115
Nitrobenzene	ug/L	2.02	0	2.04	101		50 - 140
RDX	ug/L	2.02	0	1.78	88		50 - 160
Tetryl	ug/L	2.02	0	1.21	60		20 - 175

SAMPLE NO : 21109280404

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1,3,5-Trinitrobenzene	ug/L	2.02	1.74	86		17		65 - 140	0 - 30
1,3-Dinitrobenzene	ug/L	4.04	1.7	42	*	21		45 - 160	0 - 30
2,4,6-Trinitrotoluene	ug/L	2.02	1.68	83		14		50 - 145	0 - 30
2,4-Dinitrotoluene	ug/L	2.02	1.75	87		21		60 - 135	0 - 30
2,6-Dinitrotoluene	ug/L	2.02	1.46	72		26		60 - 135	0 - 30
2-Amino-4,6-dinitrotoluene	ug/L	2.02	1.66	82		11		50 - 155	0 - 30
2-Nitrotoluene	ug/L	2.02	1.44	71		17		45 - 135	0 - 30
3-Nitrotoluene	ug/L	2.02	1.15	57		27		50 - 130	0 - 30
4-Amino-2,6-dinitrotoluene	ug/L	2.02	1.33	66		13		55 - 155	0 - 30
4-Nitrotoluene	ug/L	2.02	1.1	54		25		50 - 130	0 - 30
HMX	ug/L	2.02	1.84	91		22		80 - 115	0 - 30
Nitrobenzene	ug/L	2.02	1.67	83		20		50 - 140	0 - 30
RDX	ug/L	2.02	1.39	69		25		50 - 160	0 - 30
Tetryl	ug/L	2.02	.919	45		27		20 - 175	0 - 30

RPD : 0 out of 14 outside limits

Spike Recovery: 1 out of 28 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Contract: Method: SW846 8330

Prep Batch: 466485 Analytical Batch: 466694

SAMPLE NO : 993012

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1,3,5-Trinitrobenzene	ug/L	2	0	2.06	103		65 - 140
1,3-Dinitrobenzene	ug/L	4	0	2.13	53		45 - 160
2,4,6-Trinitrotoluene	ug/L	2	0	2.14	107		50 - 145
2,4-Dinitrotoluene	ug/L	2	0	2.14	107		60 - 135
2,6-Dinitrotoluene	ug/L	2	0	1.93	97		60 - 135
2-Amino-4,6-dinitrotoluene	ug/L	2	0	2.03	102		50 - 155
2-Nitrotoluene	ug/L	2	0	1.37	69		45 - 135
3-Nitrotoluene	ug/L	2	0	1.52	76		50 - 130
4-Amino-2,6-dinitrotoluene	ug/L	2	0	1.74	87		55 - 155
4-Nitrotoluene	ug/L	2	0	1.4	70		50 - 130
HMX	ug/L	2	0	2.16	108		80 - 115
Nitrobenzene	ug/L	2	0	2.1	105		50 - 140
RDX	ug/L	2	0	1.82	91		50 - 160
Tetryl	ug/L	2	0	1.47	74		20 - 175

SAMPLE NO : 993013

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1,3,5-Trinitrobenzene	ug/L	2	2.14	107		4		65 - 140	0 - 30
1,3-Dinitrobenzene	ug/L	4	2.14	54		.5		45 - 160	0 - 30
2,4,6-Trinitrotoluene	ug/L	2	2.12	106		.9		50 - 145	0 - 30
2,4-Dinitrotoluene	ug/L	2	2.22	111		4		60 - 135	0 - 30
2,6-Dinitrotoluene	ug/L	2	1.95	98		1		60 - 135	0 - 30
2-Amino-4,6-dinitrotoluene	ug/L	2	1.91	96		6		50 - 155	0 - 30
2-Nitrotoluene	ug/L	2	1.29	65		6		45 - 135	0 - 30
3-Nitrotoluene	ug/L	2	1.61	81		6		50 - 130	0 - 30
4-Amino-2,6-dinitrotoluene	ug/L	2	1.6	80		8		55 - 155	0 - 30
4-Nitrotoluene	ug/L	2	1.44	72		3		50 - 130	0 - 30
HMX	ug/L	2	2.25	113		4		80 - 115	0 - 30
Nitrobenzene	ug/L	2	2.13	107		1		50 - 140	0 - 30
RDX	ug/L	2	1.95	98		7		50 - 160	0 - 30
Tetryl	ug/L	2	1.37	69		7		20 - 175	0 - 30

RPD : 0 out of 14 outside limits

Spike Recovery: 0 out of 28 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL | Sample ID: MB993011

Lab Code: LA024 | Case No.: | Contract:

Lab Sample ID: 993011 | SAS No.: | SDG No.: 211092804

Matrix: Water | Sulfur Cleanup: (Y/N) N | Date Extracted: 10/04/11

Date Analyzed (1): 10/05/11 | Time (1): 1541 | Date Analyzed (2): | Time (2):

Instrument ID (1): HPLC 2 | Instrument ID (2):

GC Column (1): | ID: (mm) | GC Column (2): | ID: (mm)

Method: SW846 8330 | Prep Batch: 466485 | Analytical Batch: 466694

Lab File ID: 2111005/a19944

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	LCS993012	993012	10/05/11	1628	HPLC2
2.	LCSD993013	993013	10/05/11	1715	HPLC2
3.	MA01MW001	21109280401	10/05/11	1802	HPLC2
4.	MA01MW003	21109280402	10/05/11	1849	HPLC2
5.	MA01MW003-MS	21109280403	10/05/11	1936	HPLC2
6.	MA01MW003-MSD	21109280404	10/05/11	2023	HPLC2
7.	MA02 MW001D	21109280407	10/05/11	2110	HPLC2
8.	FD-1	21109280408	10/05/11	2259	HPLC2
9.	MWQ-23	21109280410	10/05/11	2346	HPLC2
10.	MA01-MW004	21109280411	10/06/11	0033	HPLC2
11.	MA01-MW002	21109280412	10/06/11	0120	HPLC2
12.	M114MW004	21110010501	10/06/11	0207	HPLC2
13.	M114MW001	21110010502	10/06/11	0254	HPLC2
14.	EB-1	21110010504	10/06/11	0341	HPLC2
15.	M114MW002	21110010505	10/06/11	0428	HPLC2
16.	M114MW003	21110010506	10/06/11	0515	HPLC2

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-SEP-2011 10:36
End Cal Date : 03-OCT-2011 21:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc2.i/2111005.b/lc18-8330C.m
Cal Date : 10-Oct-2011 14:23 jew
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc2.i/2111003q.b/a19911.d
Level 2: /var/chem/hplc2.i/2111003q.b/a19912.d
Level 3: /var/chem/hplc2.i/2111003q.b/a19913.d
Level 4: /var/chem/hplc2.i/2111003q.b/a19910.d
Level 5: /var/chem/hplc2.i/2111003q.b/a19914.d
Level 6: /var/chem/hplc2.i/2111003q.b/a19915.d

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	200.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
1 HMX	148	149	149	156	155	155	152	2.481
2 RDX	59.45000	53.64000	54.65000	55.76500	57.75600	57.60100	56.47700	3.849
3 1,3,5-TNB	302	304	311	310	311	317	309	1.745
5 1,3-DNB	331	349	326	338	335	336	336	2.309
6 Tetryl	243	252	233	233	229	232	237	3.717
7 Nitrobenzene	111	132	131	130	129	129	127	6.361
8 2,4,6-TNT	238	240	243	250	249	254	246	2.658
9 4-Am-DNT	212	221	218	229	223	227	222	2.801
10 2-Am-DNT	231	206	211	218	216	221	217	3.882
11 2,6-DNT	181	141	190	190	181	185	178	10.458
12 2,4-DNT	266	236	263	190	260	265	247	12.086
13 2-NT	88.15000	83.84000	82.41000	82.12000	79.11000	83.55700	83.19783	3.548
14 4-NT	212	142	128	152	143	145	154	19.393
15 3-NT	157	161	182	167	162	165	166	5.098
$ 4 1,2-Dinitrobenzene	175	195	180	188	166	169	179	6.246

GCAL, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 2111003q
Sample Matrix: LIQUID
Fraction: OTHER
Lab Smp Id: 1600*507-22-4
Client Smp ID: 1600*507-22-4
Level: LOW
Operator: JEW
Data Type: LC DATA
SampleType: LCS
SpikeList File: icv.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: /var/chem/hplc2.i/2111003q.b/lc18-8330C.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	HMX	4.00	4.70	117.53	80-120
2	RDX	4.00	4.55	113.85	80-120
3	1,3,5-TNB	4.00	4.60	115.10	80-120
5	1,3-DNB	4.00	4.68	116.97	80-120
7	Nitrobenzene	4.00	4.65	116.22	80-120
6	Tetryl	4.00	3.23	80.82	80-120
8	2,4,6-TNT	4.00	4.58	114.43	80-120
9	4-Am-DNT	4.00	4.19	104.67	80-120
10	2-Am-DNT	4.00	4.70	117.42	80-120
11	2,6-DNT	4.00	3.87	96.84	80-120
12	2,4-DNT	4.00	4.86	121.45*	80-120
13	2-NT	4.00	3.80	95.11	80-120
14	4-NT	4.00	3.68	92.04	80-120
15	3-NT	4.00	3.94	98.64	80-120

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4	1,2-Dinitrobenzene	2.00	0.00	*	0-140

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i Injection Date: 05-OCT-2011 13:11
Lab File ID: a19942.d Init. Cal. Date(s): 29-SEP-2011 03-OCT-2011
Analysis Type: WATER Init. Cal. Times: 10:36 21:16
Lab Sample ID: 1400*42-38-13 Quant Type: ESTD
Method: /var/chem/hplc2.i/2111005.b/lc18-8330C.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	152	180	0.010	-18.18096	20.00000	Averaged
2 RDX	56.47700	55.92000	0.010	0.98624	20.00000	Averaged
3 1,3,5-TNB	309	310	0.010	-0.16179	20.00000	Averaged
$ 4 1,2-Dinitrobenzene	179	212	0.010	-18.39899	20.00000	Averaged
5 1,3-DNB	336	331	0.010	1.47917	20.00000	Averaged
6 Tetryl	237	214	0.010	9.50565	20.00000	Averaged
7 Nitrobenzene	127	129	0.010	-1.80002	20.00000	Averaged
8 2,4,6-TNT	246	240	0.010	2.38292	20.00000	Averaged
9 4-Am-DNT	222	215	0.010	2.93506	20.00000	Averaged
10 2-Am-DNT	217	212	0.010	2.35948	20.00000	Averaged
11 2,6-DNT	178	169	0.010	4.89948	20.00000	Averaged
12 2,4-DNT	247	253	0.010	-2.48472	20.00000	Averaged
13 2-NT	83.19783	72.63000	0.010	12.70205	20.00000	Averaged
14 4-NT	154	130	0.010	15.47435	20.00000	Averaged
15 3-NT	166	149	0.010	10.09169	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.92284
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i Injection Date: 05-OCT-2011 21:57
Lab File ID: a19952.d Init. Cal. Date(s): 29-SEP-2011 03-OCT-2011
Analysis Type: WATER Init. Cal. Times: 10:36 21:16
Lab Sample ID: 1400-42-38-13 Quant Type: ESTD
Method: /var/chem/hplc2.i/2111005.b/lc18-8330C.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	152	180	0.010	-18.76002	20.00000	Averaged
2 RDX	56.47700	56.11000	0.010	0.64982	20.00000	Averaged
3 1,3,5-TNB	309	316	0.010	-2.10579	20.00000	Averaged
$ 4 1,2-Dinitrobenzene	179	150	0.010	15.97896	20.00000	Averaged
5 1,3-DNB	336	333	0.010	0.90327	20.00000	Averaged
6 Tetryl	237	213	0.010	10.25476	20.00000	Averaged
7 Nitrobenzene	127	125	0.010	1.39108	20.00000	Averaged
8 2,4,6-TNT	246	239	0.010	2.58432	20.00000	Averaged
9 4-Am-DNT	222	210	0.010	5.33087	20.00000	Averaged
10 2-Am-DNT	217	213	0.010	2.01449	20.00000	Averaged
11 2,6-DNT	178	178	0.010	-0.14220	20.00000	Averaged
12 2,4-DNT	247	251	0.010	-1.90878	20.00000	Averaged
13 2-NT	83.19783	68.99000	0.010	17.07717	20.00000	Averaged
14 4-NT	154	157	0.010	-1.90062	20.00000	Averaged
15 3-NT	166	145	0.010	12.75787	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.25067
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc2.i Injection Date: 06-OCT-2011 06:02
Lab File ID: a19962.d Init. Cal. Date(s): 29-SEP-2011 03-OCT-2011
Analysis Type: WATER Init. Cal. Times: 10:36 21:16
Lab Sample ID: 1400*42-38-13 Quant Type: ESTD
Method: /var/chem/hplc2.i/2111005.b/lc18-8330C.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	152	181	0.010	-18.98704	20.00000	Averaged
2 RDX	56.47700	57.01000	0.010	-0.94375	20.00000	Averaged
3 1,3,5-TNB	309	317	0.010	-2.65892	20.00000	Averaged
$ 4 1,2-Dinitrobenzene	179	148	0.010	17.28110	20.00000	Averaged
5 1,3-DNB	336	329	0.010	2.20833	20.00000	Averaged
6 Tetryl	237	208	0.010	12.04629	20.00000	Averaged
7 Nitrobenzene	127	126	0.010	0.35102	20.00000	Averaged
8 2,4,6-TNT	246	250	0.010	-1.70616	20.00000	Averaged
9 4-Am-DNT	222	216	0.010	2.59699	20.00000	Averaged
10 2-Am-DNT	217	217	0.010	0.22286	20.00000	Averaged
11 2,6-DNT	178	182	0.010	-2.40168	20.00000	Averaged
12 2,4-DNT	247	256	0.010	-3.83939	20.00000	Averaged
13 2-NT	83.19783	68.45000	0.010	17.72622	20.00000	Averaged
14 4-NT	154	135	0.010	12.41258	20.00000	Averaged
15 3-NT	166	139	0.010	15.96694	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.42329
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

8330 SAMPLE PREPARATION FORM

10/4/11

EXTRACTION DATE/TIME: 1230	Start: 10/4/11	End: 15:15	BATCH NO:	466485
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐		LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	SAMPLE TYPE	COMMENT	METHOD
1	QC ACCOUNT	MB for HBN 466485 [EXTO/29855]	993011	1000	10.0		MB		WATER BATCH SONICATION NA
2	QC ACCOUNT	LCS for HBN 466485 [EXTO/29855	993012	1000	10.0		LCS		
3	QC ACCOUNT	LCSD for HBN 466485 [EXTO/2985	993013	1000	10.0		LCSD		SEA SAND NA
4	4747	MA01MW001	21109280401	990	10.0		SAMPLE		
5	4747	MA01MW003	21109280402	990	10.0		SAMPLE		ACETONITILE LOT# 110763
6	4747	MA01MW003-MS	21109280403	990	10.0		MS		
7	4747	MA01MW003-MSD	21109280404	990	10.0		MSD		CALCIUM CHLORIDE LOT# NA
8	4747	MA02 MW001D	21109280407	990	10.0		SAMPLE		
9	4747	FD-1	21109280408	970	10.0		FLDDUP		FLORISIL CLEANUP 3620 NA
10	4747	MWQ-23	21109280410	990	10.0		SAMPLE		
11	4747	MA01-MW004	21109280411	990	10.0		SAMPLE		
12	4747	MA01-MW002	21109280412	960	10.0		SAMPLE		Speed Vac K18N21
13	4747	M114MW004	21110010501	990	10.0		SAMPLE		
14	4747	M114MW001	21110010502	990	10.0		SAMPLE		
15	4747	EB-1	21110010504	990	10.0		EQBK		
16	4747	M114MW002	21110010505	990	10.0		SAMPLE		
17	4747	M114MW003	21110010506	990	10.0		SAMPLE		
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA TEMP: NA

8330 ID	507-78-3	8330 SPIKE ID	507-22-4			TECHNICIAN	DATE
VOLUME	500ml		500ml			BAT	10-4-11
CONCENTRATION	4.0 µg/ml		4.0 µg/ml				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	BWB						10/4/11

Revision 3, 10/04/2010

211092604 213

LABORATORY CHRONICLE: HPLC DEPARTMENT

Date: 03-OCT-2011
Instrument: hplc2.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
108367		a19908.d	1000.00 ml	03-OCT-2011 15:48	1.000	JEW	1	all
1400*42-34-13		a19909.d	1000.00 ml	03-OCT-2011 16:35	1.000	JEW	1	all
1204*42-38-13		a19910.d	1000.00 ml	03-OCT-2011 17:22	1.000	JEW	1	all
1201*42-38-13		a19911.d	1000.00 ml	03-OCT-2011 18:08	1.000	JEW	1	all
1202*42-38-13		a19912.d	1000.00 ml	03-OCT-2011 18:55	1.000	JEW	1	all
1203*42-38-13		a19913.d	1000.00 ml	03-OCT-2011 19:42	1.000	JEW	1	all
1205*42-38-13		a19914.d	1000.00 ml	03-OCT-2011 20:29	1.000	JEW	1	all
1206*42-38-13		a19915.d	1000.00 ml	03-OCT-2011 21:16	1.000	JEW	1	all
1600*507-22-4		a19916.d	1000.00 ml	03-OCT-2011 22:02	1.000	JEW	1	all
1600*507-22-4		a19917.d	1000.00 ml	03-OCT-2011 22:49	1.000	JEW	1	all
LOQ 150		a19918.d	2.00 ml	03-OCT-2011 23:36	1.000	JEW	1	all
LOD 150		a19919.d	2.00 ml	04-OCT-2011 00:23	1.000	JEW	1	all
LOD 90		a19920.d	2.00 ml	04-OCT-2011 01:10	1.000	JEW	1	all
LOQ 150		a19921.d	2.00 ml	04-OCT-2011 01:57	1.000	JEW	1	all
LOD 150		a19922.d	2.00 ml	04-OCT-2011 02:44	1.000	JEW	1	all
LOD 90		a19923.d	2.00 ml	04-OCT-2011 03:31	1.000	JEW	1	all
1400*42-38-13		a19924.d	1000.00 ml	04-OCT-2011 04:18	1.000	JEW	1	all
		a19925.d	1000.00 ml	04-OCT-2011 05:05	1.000	JEW	1	all

LABORATORY CHRONICLE: HPLC DEPARTMENT

Date: 05-OCT-2011
Instrument: hplc2.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
108367		a19941.d	1000.00 ml	05-OCT-2011 12:24	1.000	BMR	1	all
1400*42-38-13		a19942.d	1000.00 ml	05-OCT-2011 13:11	1.000	BMR	1	all
1400*42-38-13		a19943.d	1000.00 ml	05-OCT-2011 14:15	1.000	BMR	1	all
993011		a19944.d	1000.00 ml	05-OCT-2011 15:41	1.000	BMR	1	all
993012		a19945.d	1000.00 ml	05-OCT-2011 16:28	1.000	BMR	1	all
993013		a19946.d	1000.00 ml	05-OCT-2011 17:15	1.000	BMR	1	all
21109280401		a19947.d	990.00 ml	05-OCT-2011 18:02	1.000	BMR	1	all
21109280402		a19948.d	990.00 ml	05-OCT-2011 18:49	1.000	BMR	1	all
21109280403		a19949.d	990.00 ml	05-OCT-2011 19:36	1.000	BMR	1	all
21109280404		a19950.d	990.00 ml	05-OCT-2011 20:23	1.000	BMR	1	all
21109280407		a19951.d	990.00 ml	05-OCT-2011 21:10	1.000	BMR	1	all
1400-42-38-13		a19952.d	1000.00 ml	05-OCT-2011 21:57	1.000	BMR	1	all
21109280408		a19953.d	970.00 ml	05-OCT-2011 22:59	1.000	BMR	1	all
21109280410		a19954.d	990.00 ml	05-OCT-2011 23:46	1.000	BMR	1	all
21109280411		a19955.d	990.00 ml	06-OCT-2011 00:33	1.000	BMR	1	all
21109280412		a19956.d	960.00 ml	06-OCT-2011 01:20	1.000	BMR	1	all
21110010501		a19957.d	990.00 ml	06-OCT-2011 02:07	1.000	BMR	1	all
21110010502		a19958.d	990.00 ml	06-OCT-2011 02:54	1.000	BMR	1	all
21110010504		a19959.d	990.00 ml	06-OCT-2011 03:41	1.000	BMR	1	all
21110010505		a19960.d	990.00 ml	06-OCT-2011 04:28	1.000	BMR	1	all
21110010506		a19961.d	990.00 ml	06-OCT-2011 05:15	1.000	BMR	1	all
1400*42-38-13		a19962.d	1000.00 ml	06-OCT-2011 06:02	1.000	BMR	1	all

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

SOW No.:

EPA Sample No.	*Lab Sample ID.*
MA01MW001	21109280401
MA01MW003	21109280402
MA01MW003-MS	21109280403
MA01MW003-MSD	21109280404
MA02 MW001D	21109280407
FD-1	21109280408
MWQ-23	21109280410
MA01-MW004	21109280411
MA01-MW002	21109280412
M114MW004	21110010501
M114MW001	21110010502
EB-1	21110010504
M114MW002	21110010505
M114MW003	21110010506
MA01MW001	21109280401
MA01MW003	21109280402
MA01MW003-MS	21109280403
MA01MW003-MSD	21109280404
MA02 MW001D	21109280407
FD-1	21109280408
MWQ-23	21109280410
MA01-MW004	21109280411
MA01-MW002	21109280412
M114MW004	21110010501
M114MW001	21110010502

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

SOW No.:

EPA Sample No.	*Lab Sample ID.*
EB-1	21110010504
M114MW002	21110010505
M114MW003	21110010506

Were ICP interelement corrections applied ?	Yes / No	YES
Were ICP background corrections applied ?	Yes / No	YES
If yes-were raw data generated before application of background corrections ?	Yes / No	NO

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280401

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 0933

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	84.3	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	14.9	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	51000	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.06	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	10.6	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	48100	ug/L		50.0	100	SW-846 6010C	P
Manganese	5.72	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	4.42	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	7120	ug/L		100	500	SW-846 6010C	P
Selenium	3.79	ug/L	U	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	569000	ug/L		200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	23.0	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	229	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280401

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 0933

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	14.7	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	51300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	11.7	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	51400	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	4.61	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	7670	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	3.79	ug/L	U	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	556000	ug/L		400	2000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	26.1	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	248	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280402

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	5.29	ug/L	B	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	20.7	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	64100	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.96	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	13.7	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	61200	ug/L		50.0	100	SW-846 6010C	P
Manganese	10.2	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.09518	ug/L	B	0.075	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	7750	ug/L		100	500	SW-846 6010C	P
Selenium	3.79	ug/L	U	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	459000	ug/L		200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.24	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	29.6	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	339	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280402

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	18.1	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	58600	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	12.7	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	58700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	8.24	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	7620	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	3.79	ug/L	U	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	430000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	26.7	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	316	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280403

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4880	ug/L		60.0	200	SW-846 6010C	P
Antimony	504	ug/L		3.98	60.0	SW-846 6010C	P
Arsenic	503	ug/L		3.49	10.0	SW-846 6010C	P
Barium	495	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	481	ug/L		0.082	5.00	SW-846 6010C	P
Cadmium	469	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	70400	ug/L		50.0	100	SW-846 6010C	P
Chromium	464	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	466	ug/L		1.00	10.0	SW-846 6010C	P
Copper	489	ug/L		1.69	10.0	SW-846 6010C	P
Iron	4850	ug/L		40.0	100	SW-846 6010C	P
Lead	459	ug/L		2.83	15.0	SW-846 6010C	P
Magnesium	67200	ug/L		50.0	100	SW-846 6010C	P
Manganese	487	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	4.51	ug/L		0.075	0.20	SW-846 7470A	AV
Molybdenum	502	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	463	ug/L		0.84	40.0	SW-846 6010C	P
Potassium	17800	ug/L		100	500	SW-846 6010C	P
Selenium	476	ug/L		3.79	40.0	SW-846 6010C	P
Silver	485	ug/L		0.64	10.0	SW-846 6010C	P
Sodium	492000	ug/L		200	1000	SW-846 6010C	P
Thallium	465	ug/L		2.60	20.0	SW-846 6010C	P
Titanium	493	ug/L		1.20	100	SW-846 6010C	P
Vanadium	509	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	810	ug/L		5.89	20.0	SW-846 6010C	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MS

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280403

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	5240	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	547	ug/L		3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	562	ug/L		3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	537	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	526	ug/L		0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	511	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	68700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	503	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	518	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	541	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	5200	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	509	ug/L		2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	70500	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	528	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.32	ug/L		0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	536	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	517	ug/L		0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	19000	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	546	ug/L		3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	534	ug/L		0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	522000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	511	ug/L		2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	518	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	553	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	886	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280404

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	4730	ug/L		60.0	200	SW-846 6010C	P
Antimony	500	ug/L		3.98	60.0	SW-846 6010C	P
Arsenic	497	ug/L		3.49	10.0	SW-846 6010C	P
Barium	485	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	471	ug/L		0.082	5.00	SW-846 6010C	P
Cadmium	458	ug/L		0.20	5.00	SW-846 6010C	P
Calcium	69000	ug/L		50.0	100	SW-846 6010C	P
Chromium	456	ug/L		1.00	10.0	SW-846 6010C	P
Cobalt	462	ug/L		1.00	10.0	SW-846 6010C	P
Copper	481	ug/L		1.69	10.0	SW-846 6010C	P
Iron	4700	ug/L		40.0	100	SW-846 6010C	P
Lead	453	ug/L		2.83	15.0	SW-846 6010C	P
Magnesium	65100	ug/L		50.0	100	SW-846 6010C	P
Manganese	481	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	4.41	ug/L		0.075	0.20	SW-846 7470A	AV
Molybdenum	495	ug/L		3.75	50.0	SW-846 6010C	P
Nickel	459	ug/L		0.84	40.0	SW-846 6010C	P
Potassium	17300	ug/L		100	500	SW-846 6010C	P
Selenium	475	ug/L		3.79	40.0	SW-846 6010C	P
Silver	475	ug/L		0.64	10.0	SW-846 6010C	P
Sodium	486000	ug/L		200	1000	SW-846 6010C	P
Thallium	464	ug/L		2.60	20.0	SW-846 6010C	P
Titanium	483	ug/L		1.20	100	SW-846 6010C	P
Vanadium	503	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	794	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01MW003-MSD

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280404

Date Received: 09/28/11 | Time: 0910 | Date Collected: 09/27/11 | Time: 1221

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4820	ug/L		60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	493	ug/L		3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	505	ug/L		3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	488	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	479	ug/L		0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	467	ug/L		0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	69000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	457	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	462	ug/L		1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	489	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	4780	ug/L		40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	455	ug/L		2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	67300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	480	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	4.38	ug/L		0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	483	ug/L		3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	460	ug/L		0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	17700	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	481	ug/L		3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	484	ug/L		0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	490000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	460	ug/L		2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	473	ug/L		1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	503	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	814	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA02 MW001D

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280407

Date Received: 09/29/11 | Time: 0915 | Date Collected: 09/28/11 | Time: 1028

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	9.84	ug/L	B	1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	114000	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.31	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	25.3	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	67600	ug/L		50.0	100	SW-846 6010C	P
Manganese	209	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	14.0	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.43	ug/L	B	0.84	40.0	SW-846 6010C	P
Potassium	8540	ug/L		100	500	SW-846 6010C	P
Selenium	117	ug/L		3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	1580000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	24.5	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	288	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA02 MW001D

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280407

Date Received: 09/29/11 | Time: 0915 | Date Collected: 09/28/11 | Time: 1028

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	9.44	ug/L	B	1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	119000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	23.8	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	73300	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	188	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	15.2	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	2.14	ug/L	B	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	9280	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	132	ug/L		3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	1630000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	25.9	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	301	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: FD-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280408

Date Received: 09/29/11 | Time: 0915 | Date Collected: 09/28/11 | Time: 1028

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	78.9	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	10.1	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	116000	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.31	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	25.0	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	69100	ug/L		50.0	100	SW-846 6010C	P
Manganese	210	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	14.2	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.82	ug/L	B	0.84	40.0	SW-846 6010C	P
Potassium	8720	ug/L		100	500	SW-846 6010C	P
Selenium	122	ug/L		3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	1630000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	25.6	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	290	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: FD-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280408

Date Received: 09/29/11 | Time: 0915 | Date Collected: 09/28/11 | Time: 1028

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.85	ug/L	B	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	9.39	ug/L	B	1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	122000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	23.6	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	73800	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	188	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	15.3	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	1.58	ug/L	B	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	9230	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	133	ug/L		3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	1600000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	25.6	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	303	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-23

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280410

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 0840

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	11.3	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	14700	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	5.68	ug/L	B	1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	9550	ug/L		50.0	100	SW-846 6010C	P
Manganese	78.0	ug/L		2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	30.4	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	2570	ug/L		100	500	SW-846 6010C	P
Selenium	3.79	ug/L	U	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	472000	ug/L		200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	8.39	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	18.4	ug/L	B	5.89	20.0	SW-846 6010C	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MWQ-23

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280410

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 0840

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	10.8	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	14700	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	5.14	ug/L	B	1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	9680	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	75.9	ug/L		2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	31.3	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	2470	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	3.79	ug/L	U	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	481000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	2.51	ug/L	B	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	8.64	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	18.4	ug/L	B	5.89	20.0	SW-846 6010C Dissolved	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01-MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280411

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	23.0	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	39300	ug/L		50.0	100	SW-846 6010C	P
Chromium	1.21	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	8.23	ug/L	B	1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	35500	ug/L		50.0	100	SW-846 6010C	P
Manganese	6.56	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.08023	ug/L	B	0.075	0.20	SW-846 7470A	AV
Molybdenum	4.78	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	6040	ug/L		100	500	SW-846 6010C	P
Selenium	6.15	ug/L	B	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	321000	ug/L		200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	26.4	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	276	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01-MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280411

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	23.4	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	39900	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	9.63	ug/L	B	1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	36100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	5.81	ug/L	B	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.08433	ug/L	B	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	5.07	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	6150	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	5.03	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	323000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.52	ug/L	B	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	32.5	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	305	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01-MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280412

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 1306

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	16.3	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	39000	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.47	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	10.2	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	35800	ug/L		50.0	100	SW-846 6010C	P
Manganese	5.45	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	5.93	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	6640	ug/L		100	500	SW-846 6010C	P
Selenium	3.79	ug/L	U	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	531000	ug/L		200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	25.9	ug/L		3.75	20.0	SW-846 6010C	P
Zinc	210	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: MA01-MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21109280412

Date Received: 09/30/11 | Time: 0915 | Date Collected: 09/29/11 | Time: 1306

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	15.1	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	39100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.12	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	10.6	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	36100	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.09305	ug/L	B	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	6.66	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	6710	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	4.49	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	533000	ug/L		200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.37	ug/L	B	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	27.4	ug/L		3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	219	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010501

Date Received: 10/01/11 | Time: 0900 | Date Collected: 09/30/11 | Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	110	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	15.2	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	1.58	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	303000	ug/L		50.0	100	SW-846 6010C	P
Chromium	4.29	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	13.8	ug/L		1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	283000	ug/L		50.0	100	SW-846 6010C	P
Manganese	3.49	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	13.1	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	1.22	ug/L	B	0.84	40.0	SW-846 6010C	P
Potassium	17100	ug/L		100	500	SW-846 6010C	P
Selenium	21.6	ug/L	B	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	2170000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	4.00	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	347	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW004

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010501

Date Received: 10/01/11 | Time: 0900 | Date Collected: 09/30/11 | Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	4.75	ug/L	B	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	15.0	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.40	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	339000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	2.38	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	17.6	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	283000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	13.3	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	18300	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	22.4	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2480000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	6.46	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	366	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010502

Date Received: 10/01/11 | Time: 0900 | Date Collected: 09/30/11 | Time: 1236

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	100.0	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	17.4	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	1.16	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	259000	ug/L		50.0	100	SW-846 6010C	P
Chromium	8.46	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	15.8	ug/L		1.69	10.0	SW-846 6010C	P
Iron	47.1	ug/L	B	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	236000	ug/L		50.0	100	SW-846 6010C	P
Manganese	2.00	ug/L	U	2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	17.8	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	8.97	ug/L	B	0.84	40.0	SW-846 6010C	P
Potassium	16400	ug/L		100	500	SW-846 6010C	P
Selenium	30.3	ug/L	B	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	2080000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	14.8	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	394	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW001

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010502

Date Received: 10/01/11 | Time: 0900 | Date Collected: 09/30/11 | Time: 1236

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.83	ug/L	B	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	16.9	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.19	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	285000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	4.17	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	15.6	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	257000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.08165	ug/L	B	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	18.8	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	9.23	ug/L	B	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	17700	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	30.1	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2080000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	10.5	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	413	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010504

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 0800

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	60.0	ug/L	U	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	2.23	ug/L	B	1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	ug/L	U	0.20	5.00	SW-846 6010C	P
Calcium	50.0	ug/L	U	50.0	100	SW-846 6010C	P
Chromium	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	1.69	ug/L	U	1.69	10.0	SW-846 6010C	P
Iron	40.0	ug/L	U	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	50.0	ug/L	U	50.0	100	SW-846 6010C	P
Manganese	2.10	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.10037	ug/L	B	0.075	0.20	SW-846 7470A	AV
Molybdenum	3.75	ug/L	U	3.75	50.0	SW-846 6010C	P
Nickel	1.12	ug/L	B	0.84	40.0	SW-846 6010C	P
Potassium	100	ug/L	U	100	500	SW-846 6010C	P
Selenium	3.79	ug/L	U	3.79	40.0	SW-846 6010C	P
Silver	0.67	ug/L	B	0.64	10.0	SW-846 6010C	P
Sodium	200	ug/L	U	200	1000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	1.20	ug/L	U	1.20	100	SW-846 6010C	P
Vanadium	3.75	ug/L	U	3.75	20.0	SW-846 6010C	P
Zinc	13.6	ug/L	B	5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: EB-1

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010504

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 0800

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	1.59	ug/L	U	1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	0.20	ug/L	U	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	50.0	ug/L	U	50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	1.69	ug/L	U	1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	50.0	ug/L	U	50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	3.75	ug/L	U	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	100	ug/L	U	100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	3.79	ug/L	U	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	200	ug/L	U	200	1000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	3.75	ug/L	U	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	5.89	ug/L	U	5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010505

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 0932

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	85.3	ug/L	B	60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	17.3	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	1.37	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	251000	ug/L		50.0	100	SW-846 6010C	P
Chromium	4.92	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	13.8	ug/L		1.69	10.0	SW-846 6010C	P
Iron	60.5	ug/L	B	40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	255000	ug/L		50.0	100	SW-846 6010C	P
Manganese	3.12	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.10199	ug/L	B	0.075	0.20	SW-846 7470A	AV
Molybdenum	23.7	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	40.6	ug/L		0.84	40.0	SW-846 6010C	P
Potassium	16500	ug/L		100	500	SW-846 6010C	P
Selenium	23.2	ug/L	B	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	2100000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	2.01	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	11.0	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	239	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW002

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010505

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 0932

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	15.5	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.12	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	267000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	3.73	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	15.8	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	258000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.075	ug/L	U	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	22.1	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	39.4	ug/L	B	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	16800	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	20.1	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2220000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	10.6	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	234	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010506

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 1146

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	200	ug/L		60.0	200	SW-846 6010C	P
Antimony	3.98	ug/L	U	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	ug/L	U	3.49	10.0	SW-846 6010C	P
Barium	14.3	ug/L		1.59	10.0	SW-846 6010C	P
Beryllium	0.082	ug/L	U	0.082	5.00	SW-846 6010C	P
Cadmium	1.53	ug/L	B	0.20	5.00	SW-846 6010C	P
Calcium	317000	ug/L		50.0	100	SW-846 6010C	P
Chromium	2.88	ug/L	B	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	ug/L	U	1.00	10.0	SW-846 6010C	P
Copper	13.3	ug/L		1.69	10.0	SW-846 6010C	P
Iron	162	ug/L		40.0	100	SW-846 6010C	P
Lead	2.83	ug/L	U	2.83	15.0	SW-846 6010C	P
Magnesium	270000	ug/L		50.0	100	SW-846 6010C	P
Manganese	6.87	ug/L	B	2.00	15.0	SW-846 6010C	P
Mercury	0.075	ug/L	U	0.075	0.20	SW-846 7470A	AV
Molybdenum	9.56	ug/L	B	3.75	50.0	SW-846 6010C	P
Nickel	0.84	ug/L	U	0.84	40.0	SW-846 6010C	P
Potassium	17000	ug/L		100	500	SW-846 6010C	P
Selenium	29.6	ug/L	B	3.79	40.0	SW-846 6010C	P
Silver	0.64	ug/L	U	0.64	10.0	SW-846 6010C	P
Sodium	2540000	ug/L		5000	25000	SW-846 6010C	P
Thallium	2.60	ug/L	U	2.60	20.0	SW-846 6010C	P
Titanium	2.45	ug/L	B	1.20	100	SW-846 6010C	P
Vanadium	12.1	ug/L	B	3.75	20.0	SW-846 6010C	P
Zinc	276	ug/L		5.89	20.0	SW-846 6010C	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: M114MW003

Lab Code: LA024 | Case No.: | Contract:

Matrix: (soil / water) Water | SAS No.: | SDG No.: 211092804

Level: (low / med) | % Solids: | Lab Sample ID: 21110010506

Date Received: 10/04/11 | Time: 0900 | Date Collected: 10/03/11 | Time: 1146

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	60.0	ug/L	U	60.0	200	SW-846 6010C Dissolved	P
Antimony (Dissolved)	3.98	ug/L	U	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	3.49	ug/L	U	3.49	10.0	SW-846 6010C Dissolved	P
Barium (Dissolved)	11.9	ug/L		1.59	10.0	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	0.082	ug/L	U	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	1.23	ug/L	B	0.20	5.00	SW-846 6010C Dissolved	P
Calcium (Dissolved)	334000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Chromium (Dissolved)	1.33	ug/L	B	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	1.00	ug/L	U	1.00	10.0	SW-846 6010C Dissolved	P
Copper (Dissolved)	15.1	ug/L		1.69	10.0	SW-846 6010C Dissolved	P
Iron (Dissolved)	40.0	ug/L	U	40.0	100	SW-846 6010C Dissolved	P
Lead (Dissolved)	2.83	ug/L	U	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	272000	ug/L		50.0	100	SW-846 6010C Dissolved	P
Manganese (Dissolved)	2.00	ug/L	U	2.00	15.0	SW-846 6010C Dissolved	P
Mercury (Dissolved)	0.09168	ug/L	B	0.075	0.20	SW-846 7470A Dissolved	AV
Molybdenum (Dissolved	8.60	ug/L	B	3.75	50.0	SW-846 6010C Dissolved	P
Nickel (Dissolved)	0.84	ug/L	U	0.84	40.0	SW-846 6010C Dissolved	P
Potassium (Dissolved)	17400	ug/L		100	500	SW-846 6010C Dissolved	P
Selenium (Dissolved)	29.7	ug/L	B	3.79	40.0	SW-846 6010C Dissolved	P
Silver (Dissolved)	0.64	ug/L	U	0.64	10.0	SW-846 6010C Dissolved	P
Sodium (Dissolved)	2580000	ug/L		5000	25000	SW-846 6010C Dissolved	P
Thallium (Dissolved)	2.60	ug/L	U	2.60	20.0	SW-846 6010C Dissolved	P
Titanium (Dissolved)	1.20	ug/L	U	1.20	100	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	13.4	ug/L	B	3.75	20.0	SW-846 6010C Dissolved	P
Zinc (Dissolved)	271	ug/L		5.89	20.0	SW-846 6010C Dissolved	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-21-2 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1105

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.85	99	mg/L	SW-846 6010C	P
Antimony	1.00	0.9898	99	mg/L	SW-846 6010C	P
Arsenic	1.00	0.999	100	mg/L	SW-846 6010C	P
Barium	1.00	1.03	103	mg/L	SW-846 6010C	P
Beryllium	1.00	0.9829	98	mg/L	SW-846 6010C	P
Boron	5.00	4.92	98	mg/L	SW-846 6010C	P
Cadmium	1.00	0.9729	97	mg/L	SW-846 6010C	P
Calcium	10.0	9.74	97	mg/L	SW-846 6010C	P
Chromium	1.00	0.9921	99	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9597	96	mg/L	SW-846 6010C	P
Copper	1.00	0.9649	96	mg/L	SW-846 6010C	P
Iron	10.0	9.72	97	mg/L	SW-846 6010C	P
Lead	1.00	0.9903	99	mg/L	SW-846 6010C	P
Lithium	1.00	0.9852	99	mg/L	SW-846 6010C	P
Magnesium	10.0	9.89	99	mg/L	SW-846 6010C	P
Manganese	1.00	0.9881	99	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9776	98	mg/L	SW-846 6010C	P
Nickel	1.00	0.9867	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010C	P
Selenium	1.00	0.9755	98	mg/L	SW-846 6010C	P
Silver	1.00	1.01	101	mg/L	SW-846 6010C	P
Sodium	10.0	10.1	101	mg/L	SW-846 6010C	P
Strontium	1.00	0.9814	98	mg/L	SW-846 6010C	P
Thallium	1.00	0.9798	98	mg/L	SW-846 6010C	P
Tin	1.00	1.00	100	mg/L	SW-846 6010C	P
Titanium	1.00	0.987	99	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9782	98	mg/L	SW-846 6010C	P
Zinc	1.00	0.9479	95	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-25-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1133

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.251	126	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0665	111	mg/L	SW-846 6010C	P
Arsenic	0.0100	0.00990	99	mg/L	SW-846 6010C	P
Barium	0.0100	0.0115	115	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00570	114	mg/L	SW-846 6010C	P
Boron	0.500	0.6202	124	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00510	101	mg/L	SW-846 6010C	P
Calcium	0.100	0.2642	264	mg/L	SW-846 6010C	P
Chromium	0.0100	0.0114	114	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.0108	108	mg/L	SW-846 6010C	P
Copper	0.0100	0.0117	117	mg/L	SW-846 6010C	P
Iron	0.100	0.0837	84	mg/L	SW-846 6010C	P
Lead	0.0150	0.0179	119	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0516	103	mg/L	SW-846 6010C	P
Magnesium	0.100	0.0824	82	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0187	124	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0560	112	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0443	111	mg/L	SW-846 6010C	P
Potassium	0.500	0.5139	103	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0463	116	mg/L	SW-846 6010C	P
Silver	0.0100	0.0119	119	mg/L	SW-846 6010C	P
Sodium	1.00	1.15	115	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0557	111	mg/L	SW-846 6010C	P
Thallium	0.0100	0.00990	99	mg/L	SW-846 6010C	P
Tin	0.100	0.1165	117	mg/L	SW-846 6010C	P
Titanium	0.100	0.1129	113	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0259	129	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0263	132	mg/L	SW-846 6010C	P
Zirconium	0.0100	0.0229	229	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1140

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.0500	0.0483	97	mg/L	SW-846 6010C	P
Manganese	0.00200	0.00220	110	mg/L	SW-846 6010C	P
Zinc	0.0100	0.0114	114	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1243

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.94	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4747	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4919	98	mg/L	SW-846 6010C	P
Barium	0.500	0.4923	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4925	99	mg/L	SW-846 6010C	P
Boron	2.50	2.43	97	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4932	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.14	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4925	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4876	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4854	97	mg/L	SW-846 6010C	P
Iron	5.00	4.99	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4898	98	mg/L	SW-846 6010C	P
Lithium	0.500	0.4954	99	mg/L	SW-846 6010C	P
Magnesium	5.00	4.98	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.4929	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4864	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4953	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.87	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.4826	97	mg/L	SW-846 6010C	P
Silicon	5.00	4.99	100	mg/L	SW-846 6010C	P
Silver	0.500	0.4944	99	mg/L	SW-846 6010C	P
Sodium	20.0	19.7	98	mg/L	SW-846 6010C	P
Strontium	0.500	0.4914	98	mg/L	SW-846 6010C	P
Thallium	0.500	0.4934	99	mg/L	SW-846 6010C	P
Tin	0.500	0.4857	97	mg/L	SW-846 6010C	P
Titanium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4856	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4963	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4912	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-10 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1301

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Vanadium	0.0200	0.0197	99	mg/L	SW-846 6010C	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 1308

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.94	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4797	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5023	100	mg/L	SW-846 6010C	P
Barium	0.500	0.500	100	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4994	100	mg/L	SW-846 6010C	P
Boron	2.50	2.46	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.500	100	mg/L	SW-846 6010C	P
Calcium	5.00	5.17	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4981	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4936	99	mg/L	SW-846 6010C	P
Copper	0.500	0.4905	98	mg/L	SW-846 6010C	P
Iron	5.00	4.97	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4972	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.5056	101	mg/L	SW-846 6010C	P
Magnesium	5.00	5.01	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.4997	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.492	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4989	100	mg/L	SW-846 6010C	P
Potassium	10.0	9.89	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.4852	97	mg/L	SW-846 6010C	P
Silicon	5.00	5.00	100	mg/L	SW-846 6010C	P
Silver	0.500	0.501	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.8	99	mg/L	SW-846 6010C	P
Strontium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Thallium	0.500	0.5024	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4955	99	mg/L	SW-846 6010C	P
Titanium	0.500	0.4941	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4911	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.5027	101	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4949	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 2119

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.07	101	mg/L	SW-846 6010C	P
Antimony	0.500	0.4813	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4967	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4988	100	mg/L	SW-846 6010C	P
Beryllium	0.500	0.5004	100	mg/L	SW-846 6010C	P
Boron	2.50	2.46	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4935	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.44	109	mg/L	SW-846 6010C	P
Chromium	0.500	0.4966	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.492	98	mg/L	SW-846 6010C	P
Copper	0.500	0.493	99	mg/L	SW-846 6010C	P
Iron	5.00	5.07	101	mg/L	SW-846 6010C	P
Lead	0.500	0.4908	98	mg/L	SW-846 6010C	P
Lithium	0.500	0.5083	102	mg/L	SW-846 6010C	P
Magnesium	5.00	5.09	102	mg/L	SW-846 6010C	P
Manganese	0.500	0.4996	100	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.492	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4986	100	mg/L	SW-846 6010C	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010C	P
Selenium	0.500	0.4828	97	mg/L	SW-846 6010C	P
Silicon	5.00	5.16	103	mg/L	SW-846 6010C	P
Silver	0.500	0.5066	101	mg/L	SW-846 6010C	P
Sodium	20.0	20.7	103	mg/L	SW-846 6010C	P
Strontium	0.500	0.5093	102	mg/L	SW-846 6010C	P
Thallium	0.500	0.4989	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4977	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4965	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4904	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.5021	100	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4948	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/03/11 Time: 2246

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.96	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4697	94	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4841	97	mg/L	SW-846 6010C	P
Barium	0.500	0.4918	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4936	99	mg/L	SW-846 6010C	P
Boron	2.50	2.45	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4895	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.22	104	mg/L	SW-846 6010C	P
Chromium	0.500	0.4916	98	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4799	96	mg/L	SW-846 6010C	P
Copper	0.500	0.4855	97	mg/L	SW-846 6010C	P
Iron	5.00	4.94	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4801	96	mg/L	SW-846 6010C	P
Lithium	0.500	0.5004	100	mg/L	SW-846 6010C	P
Magnesium	5.00	4.97	99	mg/L	SW-846 6010C	P
Manganese	0.500	0.4928	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4805	96	mg/L	SW-846 6010C	P
Nickel	0.500	0.4938	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.90	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.4721	94	mg/L	SW-846 6010C	P
Silicon	5.00	5.04	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4978	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.4	102	mg/L	SW-846 6010C	P
Strontium	0.500	0.5026	101	mg/L	SW-846 6010C	P
Thallium	0.500	0.486	97	mg/L	SW-846 6010C	P
Tin	0.500	0.4879	98	mg/L	SW-846 6010C	P
Titanium	0.500	0.4904	98	mg/L	SW-846 6010C	P
Vanadium	0.500	0.485	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4942	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4847	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/04/11 Time: 0016

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.98	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4711	94	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4848	97	mg/L	SW-846 6010C	P
Barium	0.500	0.4939	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4961	99	mg/L	SW-846 6010C	P
Boron	2.50	2.49	99	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4909	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.22	104	mg/L	SW-846 6010C	P
Chromium	0.500	0.4948	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4809	96	mg/L	SW-846 6010C	P
Copper	0.500	0.4893	98	mg/L	SW-846 6010C	P
Iron	5.00	4.95	99	mg/L	SW-846 6010C	P
Lead	0.500	0.4799	96	mg/L	SW-846 6010C	P
Lithium	0.500	0.505	101	mg/L	SW-846 6010C	P
Magnesium	5.00	4.94	99	mg/L	SW-846 6010C	P
Manganese	0.500	0.4949	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4828	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4959	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.93	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.4738	95	mg/L	SW-846 6010C	P
Silicon	5.00	5.04	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4996	100	mg/L	SW-846 6010C	P
Sodium	20.0	20.8	104	mg/L	SW-846 6010C	P
Strontium	0.500	0.5019	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.4867	97	mg/L	SW-846 6010C	P
Tin	0.500	0.4917	98	mg/L	SW-846 6010C	P
Titanium	0.500	0.493	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4882	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4964	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.487	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 10/04/11 Time: 0146

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4748	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.490	98	mg/L	SW-846 6010C	P
Barium	0.500	0.4955	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4981	100	mg/L	SW-846 6010C	P
Boron	2.50	2.46	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.492	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.32	106	mg/L	SW-846 6010C	P
Chromium	0.500	0.4955	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4841	97	mg/L	SW-846 6010C	P
Copper	0.500	0.4907	98	mg/L	SW-846 6010C	P
Iron	5.00	4.99	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4841	97	mg/L	SW-846 6010C	P
Lithium	0.500	0.5066	101	mg/L	SW-846 6010C	P
Magnesium	5.00	5.04	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4962	99	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4838	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.4974	99	mg/L	SW-846 6010C	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010C	P
Selenium	0.500	0.4754	95	mg/L	SW-846 6010C	P
Silicon	5.00	5.08	102	mg/L	SW-846 6010C	P
Silver	0.500	0.5036	101	mg/L	SW-846 6010C	P
Sodium	20.0	20.9	105	mg/L	SW-846 6010C	P
Strontium	0.500	0.4995	100	mg/L	SW-846 6010C	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010C	P
Tin	0.500	0.4952	99	mg/L	SW-846 6010C	P
Titanium	0.500	0.494	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4866	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4986	100	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4891	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 10/04/11 Time: 0954

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	10.0	9.75	97	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-25-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 10/04/11 Time: 1020

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	1.00	0.9955	100	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 10/04/11 Time: 1051

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	19.6	98	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 10/04/11 Time: 1619

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	19.2	96	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 5

Date Analyzed: 10/04/11 Time: 1750

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Sodium	20.0	19.1	96	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1004

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	10.0	9.85	99	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1115

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.24	105	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-2 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1132

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	0.100	0.1143	114	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1247

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.15	103	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1421

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.05	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1617

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.42	108	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1733

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.40	108	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 10/05/11 Time: 1903

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.32	106	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 0951

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.83	98	mg/L	SW-846 6010C	P
Antimony	1.00	0.9468	95	mg/L	SW-846 6010C	P
Arsenic	1.00	0.9084	91	mg/L	SW-846 6010C	P
Barium	1.00	1.01	101	mg/L	SW-846 6010C	P
Beryllium	1.00	0.9662	97	mg/L	SW-846 6010C	P
Boron	5.00	4.87	97	mg/L	SW-846 6010C	P
Cadmium	1.00	0.9605	96	mg/L	SW-846 6010C	P
Calcium	10.0	10.1	101	mg/L	SW-846 6010C	P
Chromium	1.00	0.9756	98	mg/L	SW-846 6010C	P
Cobalt	1.00	0.9383	94	mg/L	SW-846 6010C	P
Copper	1.00	0.9461	95	mg/L	SW-846 6010C	P
Iron	10.0	9.84	98	mg/L	SW-846 6010C	P
Lead	1.00	0.9738	97	mg/L	SW-846 6010C	P
Lithium	1.00	0.968	97	mg/L	SW-846 6010C	P
Magnesium	10.0	9.90	99	mg/L	SW-846 6010C	P
Manganese	1.00	0.9673	97	mg/L	SW-846 6010C	P
Molybdenum	1.00	0.9544	95	mg/L	SW-846 6010C	P
Nickel	1.00	0.9692	97	mg/L	SW-846 6010C	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010C	P
Selenium	1.00	0.9536	95	mg/L	SW-846 6010C	P
Silver	1.00	0.9931	99	mg/L	SW-846 6010C	P
Sodium	10.0	9.95	99	mg/L	SW-846 6010C	P
Strontium	1.00	0.9719	97	mg/L	SW-846 6010C	P
Thallium	1.00	0.9892	99	mg/L	SW-846 6010C	P
Tin	1.00	0.9887	99	mg/L	SW-846 6010C	P
Titanium	1.00	0.9711	97	mg/L	SW-846 6010C	P
Vanadium	1.00	0.9547	95	mg/L	SW-846 6010C	P
Zinc	1.00	0.9454	95	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1028

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.2054	103	mg/L	SW-846 6010C	P
Antimony	0.0600	0.0578	96	mg/L	SW-846 6010C	P
Arsenic	0.0100	0.0111	111	mg/L	SW-846 6010C	P
Barium	0.0100	0.0102	102	mg/L	SW-846 6010C	P
Beryllium	0.00500	0.00520	104	mg/L	SW-846 6010C	P
Boron	0.500	0.5342	107	mg/L	SW-846 6010C	P
Cadmium	0.00500	0.00510	102	mg/L	SW-846 6010C	P
Calcium	0.100	0.1517	152	mg/L	SW-846 6010C	P
Chromium	0.0100	0.0105	105	mg/L	SW-846 6010C	P
Cobalt	0.0100	0.0102	102	mg/L	SW-846 6010C	P
Copper	0.0100	0.0102	102	mg/L	SW-846 6010C	P
Iron	0.100	0.1212	121	mg/L	SW-846 6010C	P
Lead	0.0150	0.0153	102	mg/L	SW-846 6010C	P
Lithium	0.0500	0.0523	105	mg/L	SW-846 6010C	P
Magnesium	0.100	0.105	105	mg/L	SW-846 6010C	P
Manganese	0.0150	0.00790	53	mg/L	SW-846 6010C	P
Molybdenum	0.0500	0.0505	101	mg/L	SW-846 6010C	P
Nickel	0.0400	0.0429	107	mg/L	SW-846 6010C	P
Potassium	0.500	0.4942	99	mg/L	SW-846 6010C	P
Selenium	0.0400	0.0407	102	mg/L	SW-846 6010C	P
Silver	0.0100	0.0111	111	mg/L	SW-846 6010C	P
Sodium	1.00	0.9794	98	mg/L	SW-846 6010C	P
Strontium	0.0500	0.0524	105	mg/L	SW-846 6010C	P
Thallium	0.0100	0.0103	103	mg/L	SW-846 6010C	P
Tin	0.100	0.1042	104	mg/L	SW-846 6010C	P
Titanium	0.100	0.1044	104	mg/L	SW-846 6010C	P
Vanadium	0.0200	0.0196	98	mg/L	SW-846 6010C	P
Zinc	0.0200	0.0207	103	mg/L	SW-846 6010C	P
Zirconium	0.0100	0.0217	217	mg/L	SW-846 6010C	P

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1125

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010C	P
Antimony	0.500	0.4783	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4989	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4903	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4987	100	mg/L	SW-846 6010C	P
Boron	2.50	2.47	99	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4917	98	mg/L	SW-846 6010C	P
Calcium	5.00	5.16	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4935	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4923	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4864	97	mg/L	SW-846 6010C	P
Iron	5.00	5.11	102	mg/L	SW-846 6010C	P
Lead	0.500	0.495	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4632	93	mg/L	SW-846 6010C	P
Magnesium	5.00	5.13	103	mg/L	SW-846 6010C	P
Manganese	0.500	0.4741	95	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4896	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4979	100	mg/L	SW-846 6010C	P
Potassium	10.0	9.89	99	mg/L	SW-846 6010C	P
Selenium	0.500	0.4881	98	mg/L	SW-846 6010C	P
Silicon	5.00	5.07	101	mg/L	SW-846 6010C	P
Silver	0.500	0.4955	99	mg/L	SW-846 6010C	P
Sodium	20.0	20.1	100	mg/L	SW-846 6010C	P
Strontium	0.500	0.4935	99	mg/L	SW-846 6010C	P
Thallium	0.500	0.5011	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4855	97	mg/L	SW-846 6010C	P
Titanium	0.500	0.4943	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4836	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4916	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4929	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-4 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1141

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Iron	0.100	0.1204	120	mg/L	SW-846 6010C	P

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1149

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.95	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4771	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.4965	99	mg/L	SW-846 6010C	P
Barium	0.500	0.4971	99	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4977	100	mg/L	SW-846 6010C	P
Boron	2.50	2.50	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4982	100	mg/L	SW-846 6010C	P
Calcium	5.00	5.09	102	mg/L	SW-846 6010C	P
Chromium	0.500	0.4996	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4922	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4926	99	mg/L	SW-846 6010C	P
Iron	5.00	5.03	101	mg/L	SW-846 6010C	P
Lead	0.500	0.4945	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4971	99	mg/L	SW-846 6010C	P
Magnesium	5.00	5.07	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4812	96	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4891	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.5037	101	mg/L	SW-846 6010C	P
Potassium	10.0	9.73	97	mg/L	SW-846 6010C	P
Selenium	0.500	0.4884	98	mg/L	SW-846 6010C	P
Silicon	5.00	4.99	100	mg/L	SW-846 6010C	P
Silver	0.500	0.5004	100	mg/L	SW-846 6010C	P
Sodium	20.0	19.7	99	mg/L	SW-846 6010C	P
Strontium	0.500	0.4909	98	mg/L	SW-846 6010C	P
Thallium	0.500	0.5014	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4854	97	mg/L	SW-846 6010C	P
Titanium	0.500	0.4932	99	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4922	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4975	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4964	99	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1501

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.94	99	mg/L	SW-846 6010C	P
Antimony	0.500	0.4761	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.499	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4891	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4918	98	mg/L	SW-846 6010C	P
Boron	2.50	2.45	98	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4935	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.13	103	mg/L	SW-846 6010C	P
Chromium	0.500	0.4928	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4917	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4828	97	mg/L	SW-846 6010C	P
Iron	5.00	5.04	101	mg/L	SW-846 6010C	P
Lead	0.500	0.4952	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4563	91	mg/L	SW-846 6010C	P
Magnesium	5.00	5.10	102	mg/L	SW-846 6010C	P
Manganese	0.500	0.4672	93	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4871	97	mg/L	SW-846 6010C	P
Nickel	0.500	0.497	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.68	97	mg/L	SW-846 6010C	P
Selenium	0.500	0.4878	98	mg/L	SW-846 6010C	P
Silicon	5.00	5.00	100	mg/L	SW-846 6010C	P
Silver	0.500	0.4902	98	mg/L	SW-846 6010C	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010C	P
Strontium	0.500	0.4872	97	mg/L	SW-846 6010C	P
Thallium	0.500	0.4989	100	mg/L	SW-846 6010C	P
Tin	0.500	0.4871	97	mg/L	SW-846 6010C	P
Titanium	0.500	0.4867	97	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4825	96	mg/L	SW-846 6010C	P
Zinc	0.500	0.4929	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.486	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1627

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.89	98	mg/L	SW-846 6010C	P
Antimony	0.500	0.4787	96	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5003	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4884	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4921	98	mg/L	SW-846 6010C	P
Boron	2.50	2.49	100	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4932	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.10	102	mg/L	SW-846 6010C	P
Chromium	0.500	0.4932	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4928	99	mg/L	SW-846 6010C	P
Copper	0.500	0.4823	96	mg/L	SW-846 6010C	P
Iron	5.00	4.99	100	mg/L	SW-846 6010C	P
Lead	0.500	0.4968	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4897	98	mg/L	SW-846 6010C	P
Magnesium	5.00	5.11	102	mg/L	SW-846 6010C	P
Manganese	0.500	0.4675	94	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4896	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4972	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.60	96	mg/L	SW-846 6010C	P
Selenium	0.500	0.4919	98	mg/L	SW-846 6010C	P
Silicon	5.00	4.96	99	mg/L	SW-846 6010C	P
Silver	0.500	0.4893	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.4	102	mg/L	SW-846 6010C	P
Strontium	0.500	0.486	97	mg/L	SW-846 6010C	P
Thallium	0.500	0.4974	99	mg/L	SW-846 6010C	P
Tin	0.500	0.498	100	mg/L	SW-846 6010C	P
Titanium	0.500	0.4874	97	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4839	97	mg/L	SW-846 6010C	P
Zinc	0.500	0.4921	98	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4829	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1748

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.83	97	mg/L	SW-846 6010C	P
Antimony	0.500	0.4769	95	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5031	101	mg/L	SW-846 6010C	P
Barium	0.500	0.4907	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4937	99	mg/L	SW-846 6010C	P
Boron	2.50	2.56	103	mg/L	SW-846 6010C	P
Cadmium	0.500	0.4984	100	mg/L	SW-846 6010C	P
Calcium	5.00	5.12	102	mg/L	SW-846 6010C	P
Chromium	0.500	0.4976	100	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4897	98	mg/L	SW-846 6010C	P
Copper	0.500	0.4857	97	mg/L	SW-846 6010C	P
Iron	5.00	4.89	98	mg/L	SW-846 6010C	P
Lead	0.500	0.4994	100	mg/L	SW-846 6010C	P
Lithium	0.500	0.4897	98	mg/L	SW-846 6010C	P
Magnesium	5.00	5.03	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4671	93	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4899	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4945	99	mg/L	SW-846 6010C	P
Potassium	10.0	9.62	96	mg/L	SW-846 6010C	P
Selenium	0.500	0.4941	99	mg/L	SW-846 6010C	P
Silicon	5.00	4.87	97	mg/L	SW-846 6010C	P
Silver	0.500	0.4889	98	mg/L	SW-846 6010C	P
Sodium	20.0	24.2	121	mg/L	SW-846 6010C	P
Strontium	0.500	0.4868	97	mg/L	SW-846 6010C	P
Thallium	0.500	0.4976	100	mg/L	SW-846 6010C	P
Tin	0.500	0.5029	101	mg/L	SW-846 6010C	P
Titanium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Vanadium	0.500	0.4911	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4972	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4828	97	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 6

Date Analyzed: 10/06/11 Time: 1911

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.88	98	mg/L	SW-846 6010C	P
Antimony	0.500	0.4705	94	mg/L	SW-846 6010C	P
Arsenic	0.500	0.5017	100	mg/L	SW-846 6010C	P
Barium	0.500	0.4878	98	mg/L	SW-846 6010C	P
Beryllium	0.500	0.4918	98	mg/L	SW-846 6010C	P
Boron	2.50	2.55	102	mg/L	SW-846 6010C	P
Cadmium	0.500	0.494	99	mg/L	SW-846 6010C	P
Calcium	5.00	5.11	102	mg/L	SW-846 6010C	P
Chromium	0.500	0.497	99	mg/L	SW-846 6010C	P
Cobalt	0.500	0.4869	97	mg/L	SW-846 6010C	P
Copper	0.500	0.4854	97	mg/L	SW-846 6010C	P
Iron	5.00	4.90	98	mg/L	SW-846 6010C	P
Lead	0.500	0.4941	99	mg/L	SW-846 6010C	P
Lithium	0.500	0.4569	91	mg/L	SW-846 6010C	P
Magnesium	5.00	4.98	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.4665	93	mg/L	SW-846 6010C	P
Molybdenum	0.500	0.4898	98	mg/L	SW-846 6010C	P
Nickel	0.500	0.4919	98	mg/L	SW-846 6010C	P
Potassium	10.0	9.71	97	mg/L	SW-846 6010C	P
Selenium	0.500	0.497	99	mg/L	SW-846 6010C	P
Silicon	5.00	4.91	98	mg/L	SW-846 6010C	P
Silver	0.500	0.4877	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.5	102	mg/L	SW-846 6010C	P
Strontium	0.500	0.4882	98	mg/L	SW-846 6010C	P
Thallium	0.500	0.4913	98	mg/L	SW-846 6010C	P
Tin	0.500	0.4972	99	mg/L	SW-846 6010C	P
Titanium	0.500	0.4887	98	mg/L	SW-846 6010C	P
Vanadium	0.500	0.491	98	mg/L	SW-846 6010C	P
Zinc	0.500	0.4944	99	mg/L	SW-846 6010C	P
Zirconium	0.500	0.4824	96	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-3 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 0937

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	10.0	9.72	97	mg/L	SW-846 6010C	P
Manganese	1.00	0.9797	98	mg/L	SW-846 6010C	P
Sodium	10.0	9.90	99	mg/L	SW-846 6010C	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-28-5 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1009

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	0.100	0.1072	107	mg/L	SW-846 6010C	P
Manganese	0.0150	0.0155	103	mg/L	SW-846 6010C	P
Sodium	1.00	1.01	101	mg/L	SW-846 6010C	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1038

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.17	103	mg/L	SW-846 6010C	P
Manganese	0.500	0.5026	101	mg/L	SW-846 6010C	P
Sodium	20.0	20.4	102	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1202

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.07	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.5027	101	mg/L	SW-846 6010C	P
Sodium	20.0	20.1	101	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1336

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.03	101	mg/L	SW-846 6010C	P
Manganese	0.500	0.4942	99	mg/L	SW-846 6010C	P
Sodium	20.0	19.9	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1504

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	5.01	100	mg/L	SW-846 6010C	P
Manganese	0.500	0.4897	98	mg/L	SW-846 6010C	P
Sodium	20.0	20.1	100	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1639

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	4.73	95	mg/L	SW-846 6010C	P
Manganese	0.500	0.4811	96	mg/L	SW-846 6010C	P
Sodium	20.0	21.9	109	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-29-7 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 7

Date Analyzed: 10/10/11 Time: 1759

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Calcium	5.00	4.90	98	mg/L	SW-846 6010C	P
Manganese	0.500	0.4961	99	mg/L	SW-846 6010C	P
Sodium	20.0	20.8	104	mg/L	SW-846 6010C	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-2 CPI Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 10/03/11 Time: 1600

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	99	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 10/03/11 Time: 1605

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 10/03/11 Time: 1624

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 10/03/11 Time: 1643

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 10/03/11 Time: 1702

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00500	99	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-2 CPI Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 10/05/11 Time: 1207

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00520	104	mg/L	SW-846 7470A	AV

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 10/05/11 Time: 1211

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00510	101	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 10/05/11 Time: 1249

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00490	98	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 10/05/11 Time: 1308

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00480	96	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Calibration Source: 201-27-1 EXAXOL Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 10/05/11 Time: 1328

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00470	95	mg/L	SW-846 7470A	AV

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: ICB ICAL ID: 3

Lab Sample DESC: ICB FOR HBN 466454 [ICP/7143] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/03/11 Time: 1124

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/03/11 Time: 1250

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/03/11 Time: 1315

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/03/11 | Time: 2126

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: 992256 | ICAL ID: 10

Lab Sample DESC: MB992256 | Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 | Date Analyzed: 10/03/11 | Time: 2133

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	3.98	U	ug/L	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic	3.49	U	ug/L	3.49	10.0	SW-846 6010C Dissolved	P
Barium	1.59	U	ug/L	1.59	10.0	SW-846 6010C Dissolved	P
Beryllium	0.082	U	ug/L	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	206		ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.69	U	ug/L	1.69	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	2.83	U	ug/L	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.84	U	ug/L	0.84	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	3.79	U	ug/L	3.79	40.0	SW-846 6010C Dissolved	P
Silver	0.64	U	ug/L	0.64	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	2.60	U	ug/L	2.60	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	5.89	U	ug/L	5.89	20.0	SW-846 6010C Dissolved	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/03/11 Time: 2253

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: 992251 ICAL ID: 3

Lab Sample DESC: MB992251 Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 Date Analyzed: 10/03/11 Time: 2347

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	3.98	U	ug/L	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	U	ug/L	3.49	10.0	SW-846 6010C	P
Barium	1.59	U	ug/L	1.59	10.0	SW-846 6010C	P
Beryllium	0.082	U	ug/L	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.69	U	ug/L	1.69	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	2.83	U	ug/L	2.83	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.84	U	ug/L	0.84	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	3.79	U	ug/L	3.79	40.0	SW-846 6010C	P
Silver	0.64	U	ug/L	0.64	10.0	SW-846 6010C	P
Sodium	611	B	ug/L	200	1000	SW-846 6010C	P
Thallium	2.60	U	ug/L	2.60	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	5.89	U	ug/L	5.89	20.0	SW-846 6010C	P

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/04/11 Time: 0023

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	0.40	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 466454 [ICP/7143] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/04/11 | Time: 0153

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Sodium	0.55	B	mg/L	0.20	1.00	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: ICB ICAL ID: 5

Lab Sample DESC: ICB FOR HBN 466585 [ICP/7149] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/04/11 Time: 1014

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 466585 [ICP/7149] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/04/11 Time: 1057

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 466585 [ICP/7149] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/04/11 | Time: 1626

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 5

Lab Sample DESC: CCB FOR HBN 466585 [ICP/7149] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/04/11 Time: 1757

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: ICB | ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 466535 [ICP/7148] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/05/11 | Time: 1031

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 10/05/11 Time: 1124

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

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BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/05/11 | Time: 1255

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

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BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/05/11 | Time: 1443

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/05/11 Time: 1624

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 10/05/11 Time: 1740

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804
Lab Sample ID: CCB
ICAL ID: 4
Lab Sample DESC: CCB FOR HBN 466535 [ICP/7148]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 10/05/11 Time: 1910

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: ICB ICAL ID: 6

Lab Sample DESC: ICB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1020

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1132

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1156

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.00086	B	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1508

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: 993092 | ICAL ID: 13

Lab Sample DESC: MB993092 | Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP6 | Date Analyzed: 10/06/11 | Time: 1519

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C Dissolved	P
Antimony	3.98	U	ug/L	3.98	60.0	SW-846 6010C Dissolved	P
Arsenic	3.49	U	ug/L	3.49	10.0	SW-846 6010C Dissolved	P
Barium	1.59	U	ug/L	1.59	10.0	SW-846 6010C Dissolved	P
Beryllium	0.082	U	ug/L	0.082	5.00	SW-846 6010C Dissolved	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C Dissolved	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C Dissolved	P
Copper	1.69	U	ug/L	1.69	10.0	SW-846 6010C Dissolved	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C Dissolved	P
Lead	2.83	U	ug/L	2.83	15.0	SW-846 6010C Dissolved	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C Dissolved	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C Dissolved	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C Dissolved	P
Nickel	0.84	U	ug/L	0.84	40.0	SW-846 6010C Dissolved	P
Potassium	100	U	ug/L	100	500	SW-846 6010C Dissolved	P
Selenium	3.79	U	ug/L	3.79	40.0	SW-846 6010C Dissolved	P
Silver	0.64	U	ug/L	0.64	10.0	SW-846 6010C Dissolved	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C Dissolved	P
Thallium	2.60	U	ug/L	2.60	20.0	SW-846 6010C Dissolved	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C Dissolved	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C Dissolved	P
Zinc	5.89	U	ug/L	5.89	20.0	SW-846 6010C Dissolved	P

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BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1634

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804
Lab Sample ID: 993097
ICAL ID: 6
Lab Sample DESC: MB993097
Preparation Blank Matrix: (soil / water) Water
Instrument ID: ICP6
Date Analyzed: 10/06/11 Time: 1717

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	60.0	U	ug/L	60.0	200	SW-846 6010C	P
Antimony	3.98	U	ug/L	3.98	60.0	SW-846 6010C	P
Arsenic	3.49	U	ug/L	3.49	10.0	SW-846 6010C	P
Barium	2.10	B	ug/L	1.59	10.0	SW-846 6010C	P
Beryllium	0.082	U	ug/L	0.082	5.00	SW-846 6010C	P
Cadmium	0.20	U	ug/L	0.20	5.00	SW-846 6010C	P
Calcium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Chromium	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Cobalt	1.00	U	ug/L	1.00	10.0	SW-846 6010C	P
Copper	1.69	U	ug/L	1.69	10.0	SW-846 6010C	P
Iron	40.0	U	ug/L	40.0	100	SW-846 6010C	P
Lead	2.83	U	ug/L	2.83	15.0	SW-846 6010C	P
Magnesium	50.0	U	ug/L	50.0	100	SW-846 6010C	P
Manganese	2.00	U	ug/L	2.00	15.0	SW-846 6010C	P
Molybdenum	3.75	U	ug/L	3.75	50.0	SW-846 6010C	P
Nickel	0.84	U	ug/L	0.84	40.0	SW-846 6010C	P
Potassium	100	U	ug/L	100	500	SW-846 6010C	P
Selenium	3.79	U	ug/L	3.79	40.0	SW-846 6010C	P
Silver	0.64	U	ug/L	0.64	10.0	SW-846 6010C	P
Sodium	200	U	ug/L	200	1000	SW-846 6010C	P
Thallium	2.60	U	ug/L	2.60	20.0	SW-846 6010C	P
Titanium	1.20	U	ug/L	1.20	100	SW-846 6010C	P
Vanadium	3.75	U	ug/L	3.75	20.0	SW-846 6010C	P
Zinc	5.89	U	ug/L	5.89	20.0	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/06/11 Time: 1755

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.010	U	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

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Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 6

Lab Sample DESC: CCB FOR HBN 466696 [ICP/7155] | Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 | Date Analyzed: 10/06/11 | Time: 1917

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.060	0.20	SW-846 6010C	P
Antimony	0.060	U	mg/L	0.0040	0.060	SW-846 6010C	P
Arsenic	0.010	U	mg/L	0.0035	0.010	SW-846 6010C	P
Barium	0.010	U	mg/L	0.0016	0.010	SW-846 6010C	P
Beryllium	0.0050	U	mg/L	0.000082	0.0050	SW-846 6010C	P
Cadmium	0.0050	U	mg/L	0.00020	0.0050	SW-846 6010C	P
Chromium	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Cobalt	0.010	U	mg/L	0.0010	0.010	SW-846 6010C	P
Copper	0.010	U	mg/L	0.0017	0.010	SW-846 6010C	P
Iron	0.10	U	mg/L	0.040	0.10	SW-846 6010C	P
Lead	0.015	U	mg/L	0.0028	0.015	SW-846 6010C	P
Magnesium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Molybdenum	0.030	U	mg/L	0.00375	0.030	SW-846 6010C	P
Nickel	0.040	U	mg/L	0.00084	0.040	SW-846 6010C	P
Potassium	0.50	U	mg/L	0.10	0.50	SW-846 6010C	P
Selenium	0.040	U	mg/L	0.0038	0.040	SW-846 6010C	P
Silver	0.00089	B	mg/L	0.00064	0.010	SW-846 6010C	P
Thallium	0.020	U	mg/L	0.0026	0.020	SW-846 6010C	P
Titanium	0.10	U	mg/L	0.0012	0.10	SW-846 6010C	P
Vanadium	0.020	U	mg/L	0.00375	0.020	SW-846 6010C	P
Zinc	0.020	U	mg/L	0.0059	0.020	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: ICB
ICAL ID: 7

Lab Sample DESC: ICB FOR HBN 466862 [ICP/7159]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 10/10/11 Time: 1002

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/10/11 Time: 1044

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/10/11 Time: 1213

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/10/11 Time: 1342

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/10/11 Time: 1511

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.00	U	mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159] Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6 Date Analyzed: 10/10/11 Time: 1646

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	2.31		mg/L	0.20	1.00	SW-846 6010C	P

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 7

Lab Sample DESC: CCB FOR HBN 466862 [ICP/7159]
Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6
Date Analyzed: 10/10/11 Time: 1806

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Calcium	0.10	U	mg/L	0.050	0.10	SW-846 6010C	P
Manganese	0.015	U	mg/L	0.0020	0.015	SW-846 6010C	P
Sodium	1.76		mg/L	0.20	1.00	SW-846 6010C	P

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BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: ICB
ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 466468 [HG/5140]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/03/11 Time: 1603

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804
Lab Sample ID: CCB
ICAL ID: 1
Lab Sample DESC: CCB FOR HBN 466468 [HG/5140]
Preparation Blank Matrix: (soil / water)
Instrument ID: FIMS1
Date Analyzed: 10/03/11 Time: 1606

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: 992259 ICAL ID: 1

Lab Sample DESC: MB992259 Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1 Date Analyzed: 10/03/11 Time: 1614

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.075	U	ug/L	0.075	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 466468 [HG/5140]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/03/11 Time: 1625

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 466468 [HG/5140]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/03/11 Time: 1645

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00008	B	mg/L	0.000075	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 466468 [HG/5140]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/03/11 Time: 1704

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00009	B	mg/L	0.000075	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: ICB
ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 466600 [HG/5142]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/05/11 Time: 1209

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00008	B	mg/L	0.000075	0.00020	SW-846 7470A	AV

FORM III - IN

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 466600 [HG/5142] Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 Date Analyzed: 10/05/11 Time: 1212

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00008	B	mg/L	0.000075	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:

Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804

Lab Sample ID: CCB
ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 466600 [HG/5142]
Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1
Date Analyzed: 10/05/11 Time: 1251

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 211092804
Lab Sample ID: 993103
ICAL ID: 2
Lab Sample DESC: MB993103
Preparation Blank Matrix: (soil / water) Water
Instrument ID: FIMS1
Date Analyzed: 10/05/11 Time: 1300

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.07647	B	ug/L	0.075	0.20	SW-846 7470A	AV

BLANKS

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 211092804

Lab Sample ID: CCB | ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 466600 [HG/5142] | Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 | Date Analyzed: 10/05/11 | Time: 1310

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Lab Sample ID: CCB ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 466600 [HG/5142] Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1 Date Analyzed: 10/05/11 Time: 1329

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000075	0.00020	SW-846 7470A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

ICP ID Number: ICP6 ICS Source: 201-27-3 SPEX/EXAXOL~201-24-4 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	183	192	96			
Antimony	0	1.00		1.06	106			
Arsenic	0	1.00		1.07	107			
Barium	0	0.5000		0.5206	104			
Beryllium	0	0.5000		0.5311	106			
Boron	0	1.00		1.14	114			
Cadmium	0	1.00		1.02	102			
Calcium	200	200	190	198	99			
Chromium	0	0.5000		0.5210	104			
Cobalt	0	0.5000		0.4983	100			
Copper	0	0.5000		0.5421	108			
Iron	200	200	189	198	99			
Lead	0	1.00		1.03	103			
Magnesium	200	200	189	199	100			
Manganese	0	0.5000		0.5296	106			
Molybdenum	0	1.00		1.03	103			
Nickel	0	1.00		1.00	100			
Selenium	0	1.00		1.05	105			
Silver	0	1.00		1.11	111			
Sodium	0	1.00		1.07	107			
Thallium	0	1.00		1.09	109			
Vanadium	0	0.5000		0.5190	104			
Zinc	0	1.00		1.05	105			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

ICP ID Number: ICP6 ICS Source: 201-27-3 SPEX/EXAXOL~201-28-1 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	194	192	96			
Antimony	0	1.00		1.09	109			
Arsenic	0	1.00		1.10	110			
Barium	0	0.5000		0.5122	102			
Beryllium	0	0.5000		0.5247	105			
Boron	0	1.00		0.9950	100			
Cadmium	0	1.00		1.00	100			
Calcium	200	200	202	201	100			
Chromium	0	0.5000		0.5155	103			
Cobalt	0	0.5000		0.5112	102			
Copper	0	0.5000		0.5316	106			
Iron	200	200	201	198	99			
Lead	0	1.00		1.06	106			
Magnesium	200	200	201	198	99			
Manganese	0	0.5000		0.5171	103			
Molybdenum	0	1.00		1.04	104			
Nickel	0	1.00		0.9884	99			
Selenium	0	1.00		1.08	108			
Silver	0	1.00		1.11	111			
Sodium	0	1.00		1.06	106			
Thallium	0	1.00		1.14	114			
Vanadium	0	0.5000		0.4844	97			
Zinc	0	1.00		1.09	109			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

ICP ID Number: ICP6 ICS Source: 201-27-3 SPEX/EXAXOL~201-28-1 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	185	183	92			
Antimony	0	1.00		1.04	104			
Arsenic	0	1.00		1.05	105			
Barium	0	0.5000		0.4916	98			
Beryllium	0	0.5000		0.5018	100			
Boron	0	1.00		0.9968	100			
Cadmium	0	1.00		0.9589	96			
Calcium	200	200	190	191	96			
Chromium	0	0.5000		0.4943	99			
Cobalt	0	0.5000		0.4905	98			
Copper	0	0.5000		0.5113	102			
Iron	200	200	190	187	94			
Lead	0	1.00		1.01	101			
Magnesium	200	200	189	186	93			
Manganese	0	0.5000		0.4984	100			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.9478	95			
Selenium	0	1.00		1.03	103			
Silver	0	1.00		1.06	106			
Sodium	0	1.00		1.02	102			
Thallium	0	1.00		1.09	109			
Vanadium	0	0.5000		0.4745	95			
Zinc	0	1.00		1.08	108			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

ICP ID Number: ICP6 ICS Source: 201-27-3 SPEX/EXAXOL~201-28-1 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	190	193	96			
Antimony	0	1.00		1.06	106			
Arsenic	0	1.00		1.08	108			
Barium	0	0.5000		0.5153	103			
Beryllium	0	0.5000		0.5313	106			
Boron	0	1.00		1.01	101			
Cadmium	0	1.00		1.01	101			
Calcium	200	200	197	202	101			
Chromium	0	0.5000		0.5211	104			
Cobalt	0	0.5000		0.4997	100			
Copper	0	0.5000		0.5384	108			
Iron	200	200	197	200	100			
Lead	0	1.00		1.03	103			
Magnesium	200	200	196	200	100			
Manganese	0	0.5000		0.5072	101			
Molybdenum	0	1.00		1.02	102			
Nickel	0	1.00		1.00	100			
Selenium	0	1.00		1.05	105			
Silver	0	1.00		1.11	111			
Sodium	0	1.00		1.04	104			
Thallium	0	1.00		1.10	110			
Vanadium	0	0.5000		0.5142	103			
Zinc	0	1.00		1.10	110			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

ICP ID Number: ICP6 ICS Source: 201-27-3 SPEX/EXAXOL~201-28-1 SPEX/EX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	186	186	93			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.03	103			
Barium	0	0.5000		0.4971	99			
Beryllium	0	0.5000		0.5050	101			
Boron	0	1.00		0.9474	95			
Cadmium	0	1.00		0.9718	97			
Calcium	200	200	191	191	96			
Chromium	0	0.5000		0.4971	99			
Cobalt	0	0.5000		0.4776	96			
Copper	0	0.5000		0.5182	104			
Iron	200	200	189	189	94			
Lead	0	1.00		0.9907	99			
Magnesium	200	200	189	191	96			
Manganese	0	0.5000		0.4994	100			
Molybdenum	0	1.00		0.9845	98			
Nickel	0	1.00		0.9515	95			
Selenium	0	1.00		1.01	101			
Silver	0	1.00		1.06	106			
Sodium	0	1.00		1.03	103			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.5000		0.4841	97			
Zinc	0	1.00		1.01	101			

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003 Method SW-846 6010C/7470A

SAMPLE NO. : 21109280403

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	0	4880	98		80 - 120
Antimony	ug/L	500	5.29	504	100		80 - 120
Arsenic	ug/L	500	0	503	101		80 - 120
Barium	ug/L	500	20.7	495	95		80 - 120
Beryllium	ug/L	500	0	481	96		80 - 120
Cadmium	ug/L	500	0	469	94		80 - 120
Calcium	ug/L	5000	64100	70400	126	N	80 - 120
Chromium	ug/L	500	1.96	464	93		80 - 120
Cobalt	ug/L	500	0	466	93		80 - 120
Copper	ug/L	500	13.7	489	95		80 - 120
Iron	ug/L	5000	0	4850	97		80 - 120
Lead	ug/L	500	0	459	92		80 - 120
Magnesium	ug/L	5000	61200	67200	120		80 - 120
Manganese	ug/L	500	10.2	487	95		80 - 120
Mercury	ug/L	5	.09518	4.51	88		80 - 120
Molybdenum	ug/L	500	0	502	100		80 - 120
Nickel	ug/L	500	0	463	93		80 - 120
Potassium	ug/L	10000	7750	17800	100		80 - 120
Selenium	ug/L	500	0	476	95		80 - 120
Silver	ug/L	500	0	485	97		80 - 120
Sodium	ug/L	20000	459000	492000	170	N	80 - 120
Thallium	ug/L	500	0	465	93		80 - 120
Titanium	ug/L	500	1.24	493	98		80 - 120
Vanadium	ug/L	500	29.6	509	96		80 - 120
Zinc	ug/L	500	339	810	94		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003 Method SW-846 6010C/7470A

SAMPLE NO. : 21109280404

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	4730	95		3		80 - 120	0 - 30
Antimony	ug/L	500	500	99		.7		80 - 120	0 - 30
Arsenic	ug/L	500	497	99		1		80 - 120	0 - 30
Barium	ug/L	500	485	93		2		80 - 120	0 - 30
Beryllium	ug/L	500	471	94		2		80 - 120	0 - 30
Cadmium	ug/L	500	458	92		2		80 - 120	0 - 30
Calcium	ug/L	5000	69000	99		2		80 - 120	0 - 30
Chromium	ug/L	500	456	91		2		80 - 120	0 - 30
Cobalt	ug/L	500	462	92		.9		80 - 120	0 - 30
Copper	ug/L	500	481	94		2		80 - 120	0 - 30
Iron	ug/L	5000	4700	94		3		80 - 120	0 - 30
Lead	ug/L	500	453	91		1		80 - 120	0 - 30
Magnesium	ug/L	5000	65100	78	N	3		80 - 120	0 - 30
Manganese	ug/L	500	481	94		1		80 - 120	0 - 30
Mercury	ug/L	5	4.41	86		2		80 - 120	0 - 30
Molybdenum	ug/L	500	495	98		1		80 - 120	0 - 30
Nickel	ug/L	500	459	92		.7		80 - 120	0 - 30
Potassium	ug/L	10000	17300	96		3		80 - 120	0 - 30
Selenium	ug/L	500	475	95		.3		80 - 120	0 - 30
Silver	ug/L	500	475	95		2		80 - 120	0 - 30
Sodium	ug/L	20000	486000	137	N	1		80 - 120	0 - 30
Thallium	ug/L	500	464	93		.3		80 - 120	0 - 30
Titanium	ug/L	500	483	96		2		80 - 120	0 - 30
Vanadium	ug/L	500	503	95		1		80 - 120	0 - 30
Zinc	ug/L	500	794	91		2		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 4 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: M114MW004 Method SW-846 6010C

SAMPLE NO. : 993099

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	5000	110	5140	101		80 - 120
Antimony	ug/L	500	0	551	110		80 - 120
Arsenic	ug/L	500	0	595	119		80 - 120
Barium	ug/L	500	15.2	527	102		80 - 120
Beryllium	ug/L	500	0	508	102		80 - 120
Cadmium	ug/L	500	1.58	517	103		80 - 120
Calcium	ug/L	5000	303000	318000	312	N	80 - 120
Chromium	ug/L	500	4.29	503	100		80 - 120
Cobalt	ug/L	500	0	512	102		80 - 120
Copper	ug/L	500	13.8	569	111		80 - 120
Iron	ug/L	5000	0	5120	102		80 - 120
Lead	ug/L	500	0	505	101		80 - 120
Magnesium	ug/L	5000	283000	306000	465	N	80 - 120
Manganese	ug/L	500	3.49	493	98		80 - 120
Molybdenum	ug/L	500	13.1	534	104		80 - 120
Nickel	ug/L	500	1.22	498	99		80 - 120
Potassium	ug/L	10000	17100	28800	117		80 - 120
Selenium	ug/L	500	21.6	611	118		80 - 120
Silver	ug/L	500	0	547	109		80 - 120
Sodium	ug/L	20000	2170000	2230000	291	N	80 - 120
Thallium	ug/L	500	0	514	103		80 - 120
Titanium	ug/L	500	0	488	97		80 - 120
Vanadium	ug/L	500	4	536	106		80 - 120
Zinc	ug/L	500	347	907	112		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 9 out of 48 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: M114MW004 Method SW-846 6010C

SAMPLE NO. : 993100

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum	ug/L	5000	5200	102		1		80 - 120	0 - 30
Antimony	ug/L	500	576	115		4		80 - 120	0 - 30
Arsenic	ug/L	500	624	125	N	5		80 - 120	0 - 30
Barium	ug/L	500	535	104		1		80 - 120	0 - 30
Beryllium	ug/L	500	515	103		1		80 - 120	0 - 30
Cadmium	ug/L	500	528	105		2		80 - 120	0 - 30
Calcium	ug/L	5000	321000	368	N	.9		80 - 120	0 - 30
Chromium	ug/L	500	510	101		1		80 - 120	0 - 30
Cobalt	ug/L	500	531	106		4		80 - 120	0 - 30
Copper	ug/L	500	576	112		1		80 - 120	0 - 30
Iron	ug/L	5000	5160	103		.9		80 - 120	0 - 30
Lead	ug/L	500	524	105		4		80 - 120	0 - 30
Magnesium	ug/L	5000	311000	568	N	2		80 - 120	0 - 30
Manganese	ug/L	500	495	98		.4		80 - 120	0 - 30
Molybdenum	ug/L	500	552	108		3		80 - 120	0 - 30
Nickel	ug/L	500	516	103		4		80 - 120	0 - 30
Potassium	ug/L	10000	29100	121	N	1		80 - 120	0 - 30
Selenium	ug/L	500	642	124	N	5		80 - 120	0 - 30
Silver	ug/L	500	553	111		1		80 - 120	0 - 30
Sodium	ug/L	20000	2290000	567	N	2		80 - 120	0 - 30
Thallium	ug/L	500	533	107		4		80 - 120	0 - 30
Titanium	ug/L	500	496	99		2		80 - 120	0 - 30
Vanadium	ug/L	500	543	108		1		80 - 120	0 - 30
Zinc	ug/L	500	922	115		2		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 9 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003 Method SW-846 6010C/7470A Dissolved

SAMPLE NO. : 21109280403

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum(Dissolved)	ug/L	5000	0	5240	105		80 - 120
Antimony(Dissolved)	ug/L	500	0	547	109		80 - 120
Arsenic(Dissolved)	ug/L	500	0	562	112		80 - 120
Barium(Dissolved)	ug/L	500	18.1	537	104		80 - 120
Beryllium(Dissolved)	ug/L	500	0	526	105		80 - 120
Cadmium(Dissolved)	ug/L	500	0	511	102		80 - 120
Calcium(Dissolved)	ug/L	5000	58600	68700	202	N	80 - 120
Chromium(Dissolved)	ug/L	500	0	503	101		80 - 120
Cobalt(Dissolved)	ug/L	500	0	518	104		80 - 120
Copper(Dissolved)	ug/L	500	12.7	541	106		80 - 120
Iron(Dissolved)	ug/L	5000	0	5200	104		80 - 120
Lead(Dissolved)	ug/L	500	0	509	102		80 - 120
Magnesium(Dissolved)	ug/L	5000	58700	70500	236	N	80 - 120
Manganese(Dissolved)	ug/L	500	8.24	528	104		80 - 120
Mercury(Dissolved)	ug/L	5	0	4.32	86		80 - 120
Molybdenum(Dissolved)	ug/L	500	0	536	107		80 - 120
Nickel(Dissolved)	ug/L	500	0	517	103		80 - 120
Potassium(Dissolved)	ug/L	10000	7620	19000	113		80 - 120
Selenium(Dissolved)	ug/L	500	0	546	109		80 - 120
Silver(Dissolved)	ug/L	500	0	534	107		80 - 120
Sodium(Dissolved)	ug/L	20000	430000	522000	463	N	80 - 120
Thallium(Dissolved)	ug/L	500	0	511	102		80 - 120
Titanium(Dissolved)	ug/L	500	0	518	104		80 - 120
Vanadium(Dissolved)	ug/L	500	26.7	553	105		80 - 120
Zinc(Dissolved)	ug/L	500	316	886	114		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 6 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: MA01MW003 Method SW-846 6010C/7470A Dissolved

SAMPLE NO. : 21109280404

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum(Dissolved)	ug/L	5000	4820	96		8		80 - 120	0 - 30
Antimony(Dissolved)	ug/L	500	493	99		10		80 - 120	0 - 30
Arsenic(Dissolved)	ug/L	500	505	101		11		80 - 120	0 - 30
Barium(Dissolved)	ug/L	500	488	94		9		80 - 120	0 - 30
Beryllium(Dissolved)	ug/L	500	479	96		9		80 - 120	0 - 30
Cadmium(Dissolved)	ug/L	500	467	93		9		80 - 120	0 - 30
Calcium(Dissolved)	ug/L	5000	69000	208	N	.5		80 - 120	0 - 30
Chromium(Dissolved)	ug/L	500	457	91		10		80 - 120	0 - 30
Cobalt(Dissolved)	ug/L	500	462	92		11		80 - 120	0 - 30
Copper(Dissolved)	ug/L	500	489	95		10		80 - 120	0 - 30
Iron(Dissolved)	ug/L	5000	4780	96		8		80 - 120	0 - 30
Lead(Dissolved)	ug/L	500	455	91		11		80 - 120	0 - 30
Magnesium(Dissolved)	ug/L	5000	67300	172	N	5		80 - 120	0 - 30
Manganese(Dissolved)	ug/L	500	480	94		9		80 - 120	0 - 30
Mercury(Dissolved)	ug/L	5	4.38	88		1		80 - 120	0 - 30
Molybdenum(Dissolved)	ug/L	500	483	96		10		80 - 120	0 - 30
Nickel(Dissolved)	ug/L	500	460	92		12		80 - 120	0 - 30
Potassium(Dissolved)	ug/L	10000	17700	101		7		80 - 120	0 - 30
Selenium(Dissolved)	ug/L	500	481	96		13		80 - 120	0 - 30
Silver(Dissolved)	ug/L	500	484	97		10		80 - 120	0 - 30
Sodium(Dissolved)	ug/L	20000	490000	302	N	6		80 - 120	0 - 30
Thallium(Dissolved)	ug/L	500	460	92		11		80 - 120	0 - 30
Titanium(Dissolved)	ug/L	500	473	95		9		80 - 120	0 - 30
Vanadium(Dissolved)	ug/L	500	503	95		9		80 - 120	0 - 30
Zinc(Dissolved)	ug/L	500	814	100		8		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 25 outside limits

Spike Recovery: 6 out of 50 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: M114MW004 Method SW-846 6010C Dissolved

SAMPLE NO. : 993094

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum(Dissolved)	ug/L	5000	0	5210	103		80 - 120
Antimony(Dissolved)	ug/L	500	0	590	118		80 - 120
Arsenic(Dissolved)	ug/L	500	4.75	620	123	N	80 - 120
Barium(Dissolved)	ug/L	500	15	546	106		80 - 120
Beryllium(Dissolved)	ug/L	500	0	534	107		80 - 120
Cadmium(Dissolved)	ug/L	500	1.4	524	105		80 - 120
Calcium(Dissolved)	ug/L	5000	339000	360000	402	N	80 - 120
Chromium(Dissolved)	ug/L	500	2.38	522	104		80 - 120
Cobalt(Dissolved)	ug/L	500	0	537	107		80 - 120
Copper(Dissolved)	ug/L	500	17.6	606	118		80 - 120
Iron(Dissolved)	ug/L	5000	0	5250	105		80 - 120
Lead(Dissolved)	ug/L	500	0	525	105		80 - 120
Magnesium(Dissolved)	ug/L	5000	283000	321000	769	N	80 - 120
Manganese(Dissolved)	ug/L	500	0	533	107		80 - 120
Molybdenum(Dissolved)	ug/L	500	13.3	564	110		80 - 120
Nickel(Dissolved)	ug/L	500	0	519	104		80 - 120
Potassium(Dissolved)	ug/L	10000	18300	30700	125	N	80 - 120
Selenium(Dissolved)	ug/L	500	22.4	632	122	N	80 - 120
Silver(Dissolved)	ug/L	500	0	579	116		80 - 120
Sodium(Dissolved)	ug/L	20000	2480000	2560000	424	N	80 - 120
Thallium(Dissolved)	ug/L	500	0	535	107		80 - 120
Titanium(Dissolved)	ug/L	500	0	520	104		80 - 120
Vanadium(Dissolved)	ug/L	500	6.46	560	111		80 - 120
Zinc(Dissolved)	ug/L	500	366	944	116		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 10 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: M114MW004 Method SW-846 6010C Dissolved

SAMPLE NO. : 993095

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*RPD*
Aluminum(Dissolved)	ug/L	5000	5050	100		3		80 - 120	0 - 30
Antimony(Dissolved)	ug/L	500	565	113		4		80 - 120	0 - 30
Arsenic(Dissolved)	ug/L	500	597	118		4		80 - 120	0 - 30
Barium(Dissolved)	ug/L	500	527	102		4		80 - 120	0 - 30
Beryllium(Dissolved)	ug/L	500	513	103		4		80 - 120	0 - 30
Cadmium(Dissolved)	ug/L	500	504	101		4		80 - 120	0 - 30
Calcium(Dissolved)	ug/L	5000	363000	461	N	.8		80 - 120	0 - 30
Chromium(Dissolved)	ug/L	500	502	100		4		80 - 120	0 - 30
Cobalt(Dissolved)	ug/L	500	516	103		4		80 - 120	0 - 30
Copper(Dissolved)	ug/L	500	584	113		4		80 - 120	0 - 30
Iron(Dissolved)	ug/L	5000	5060	101		4		80 - 120	0 - 30
Lead(Dissolved)	ug/L	500	503	101		4		80 - 120	0 - 30
Magnesium(Dissolved)	ug/L	5000	321000	771	N	.02		80 - 120	0 - 30
Manganese(Dissolved)	ug/L	500	510	102		4		80 - 120	0 - 30
Molybdenum(Dissolved)	ug/L	500	542	106		4		80 - 120	0 - 30
Nickel(Dissolved)	ug/L	500	500	100		4		80 - 120	0 - 30
Potassium(Dissolved)	ug/L	10000	30400	121	N	1		80 - 120	0 - 30
Selenium(Dissolved)	ug/L	500	601	116		5		80 - 120	0 - 30
Silver(Dissolved)	ug/L	500	557	111		4		80 - 120	0 - 30
Sodium(Dissolved)	ug/L	20000	2520000	236	N	1		80 - 120	0 - 30
Thallium(Dissolved)	ug/L	500	515	103		4		80 - 120	0 - 30
Titanium(Dissolved)	ug/L	500	500	100		4		80 - 120	0 - 30
Vanadium(Dissolved)	ug/L	500	540	107		4		80 - 120	0 - 30
Zinc(Dissolved)	ug/L	500	922	111		2		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 24 outside limits

Spike Recovery: 10 out of 48 outside limits

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Matrix Spike - EPA Sample No: M114MW002 Method SW-846 7470A

SAMPLE NO. : 993105

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Mercury	ug/L	5	.10199	3.3	64	N	80 - 120

SAMPLE NO. : 993106

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	*#*	*% RPD*	*#*	*QC. LIMITS REC*	*RPD*
Mercury	ug/L	5	3.3	64	N	.007		80 - 120	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MA01MW003PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 992879

Orig Lab Sample ID: 21109280402

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5100		0	U	5000	102		ug/L	SW-846 6010C	P
Antimony	75	125	505		5.29	B	500	100		ug/L	SW-846 6010C	P
Arsenic	75	125	530		0	U	500	106		ug/L	SW-846 6010C	P
Barium	75	125	519		20.7		500	100		ug/L	SW-846 6010C	P
Beryllium	75	125	506		0	U	500	101		ug/L	SW-846 6010C	P
Cadmium	75	125	493		0	U	500	99		ug/L	SW-846 6010C	P
Chromium	75	125	491		1.96	B	500	98		ug/L	SW-846 6010C	P
Cobalt	75	125	489		0	U	500	98		ug/L	SW-846 6010C	P
Copper	75	125	516		13.7		500	100		ug/L	SW-846 6010C	P
Iron	75	125	5030		0	U	5000	101		ug/L	SW-846 6010C	P
Lead	75	125	482		0	U	500	96		ug/L	SW-846 6010C	P
Magnesium	75	125	65400		61200		5000	85		ug/L	SW-846 6010C	P
Manganese	75	125	513		10.2	B	500	101		ug/L	SW-846 6010C	P
Molybdenum	75	125	502		0	U	500	100		ug/L	SW-846 6010C	P
Nickel	75	125	486		0	U	500	97		ug/L	SW-846 6010C	P
Potassium	75	125	18000		7750		10000	102		ug/L	SW-846 6010C	P
Selenium	75	125	502		0	U	500	100		ug/L	SW-846 6010C	P
Silver	75	125	501		0	U	500	100		ug/L	SW-846 6010C	P
Sodium	75	125	482000		459000		20000	117		ug/L	SW-846 6010C	P
Thallium	75	125	493		0	U	500	99		ug/L	SW-846 6010C	P
Titanium	75	125	494		1.24	B	500	98		ug/L	SW-846 6010C	P
Vanadium	75	125	538		29.6		500	102		ug/L	SW-846 6010C	P
Zinc	75	125	847		339		500	102		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MA01MW003PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 993434

Orig Lab Sample ID: 21109280402

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Calcium	75	125	68700		64100		5000	91		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 994155

Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	4960		110	B	5000	97		ug/L	SW-846 6010C	P
Antimony	75	125	572		0	U	500	114		ug/L	SW-846 6010C	P
Arsenic	75	125	613		0	U	500	123		ug/L	SW-846 6010C	P
Barium	75	125	533		15.2		500	104		ug/L	SW-846 6010C	P
Beryllium	75	125	517		0	U	500	103		ug/L	SW-846 6010C	P
Cadmium	75	125	526		1.58	B	500	105		ug/L	SW-846 6010C	P
Chromium	75	125	513		4.29	B	500	102		ug/L	SW-846 6010C	P
Cobalt	75	125	531		0	U	500	106		ug/L	SW-846 6010C	P
Copper	75	125	576		13.8		500	112		ug/L	SW-846 6010C	P
Iron	75	125	5030		0	U	5000	100		ug/L	SW-846 6010C	P
Lead	75	125	523		0	U	500	105		ug/L	SW-846 6010C	P
Magnesium	75	125	292000		283000		5000	186	N	ug/L	SW-846 6010C	P
Molybdenum	75	125	548		13.1	B	500	107		ug/L	SW-846 6010C	P
Nickel	75	125	517		1.22	B	500	103		ug/L	SW-846 6010C	P
Potassium	75	125	27900		17100		10000	109		ug/L	SW-846 6010C	P
Selenium	75	125	641		21.6	B	500	124		ug/L	SW-846 6010C	P
Silver	75	125	543		0	U	500	109		ug/L	SW-846 6010C	P
Thallium	75	125	532		0	U	500	106		ug/L	SW-846 6010C	P
Titanium	75	125	494		0	U	500	99		ug/L	SW-846 6010C	P
Vanadium	75	125	548		4	B	500	109		ug/L	SW-846 6010C	P
Zinc	75	125	912		347		500	113		ug/L	SW-846 6010C	P

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POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 994993

Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Calcium	75	125	307000		303000		5000	98		ug/L	SW-846 6010C	P
Manganese	75	125	494		3.49	B	500	98		ug/L	SW-846 6010C	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 995308

Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium	75	125	2630000		2170000		500000	90		ug/L	SW-846 6010C	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MA01MW003PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Level: (low / med)
Lab Sample ID: 992881
Orig Lab Sample ID: 21109280402

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5180		0	U	5000	104		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	510		0	U	500	102		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	538		0	U	500	108		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	517		18.1		500	100		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	510		0	U	500	102		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	496		0	U	500	99		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	489		0	U	500	98		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	494		0	U	500	99		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	521		12.7		500	102		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5120		0	U	5000	102		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	486		0	U	500	97		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	63800		58700		5000	102		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	511		8.24	B	500	101		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	504		0	U	500	100		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	494		0	U	500	99		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	17800		7620		10000	102		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	513		0	U	500	103		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	506		0	U	500	101		ug/L	-846 6010C Disso	P
Sodium (Dissolved)	75	125	460000		430000		20000	153		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	481		0	U	500	96		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	495		0	U	500	99		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	533		26.7		500	101		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	838		316		500	104		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: MA01MW003PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 993432

Orig Lab Sample ID: 21109280402

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Calcium (Dissolved)	75	125	56300		58600		5000	-50		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Level: (low / med)
Lab Sample ID: 994157
Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum (Dissolved)	75	125	5030		0	U	5000	99		ug/L	-846 6010C Disso	P
Antimony (Dissolved)	75	125	561		0	U	500	112		ug/L	-846 6010C Disso	P
Arsenic (Dissolved)	75	125	590		4.75	B	500	117		ug/L	-846 6010C Disso	P
Barium (Dissolved)	75	125	526		15		500	102		ug/L	-846 6010C Disso	P
Beryllium (Dissolved)	75	125	514		0	U	500	103		ug/L	-846 6010C Disso	P
Cadmium (Dissolved)	75	125	508		1.4	B	500	101		ug/L	-846 6010C Disso	P
Chromium (Dissolved)	75	125	504		2.38	B	500	100		ug/L	-846 6010C Disso	P
Cobalt (Dissolved)	75	125	516		0	U	500	103		ug/L	-846 6010C Disso	P
Copper (Dissolved)	75	125	582		17.6		500	113		ug/L	-846 6010C Disso	P
Iron (Dissolved)	75	125	5050		0	U	5000	101		ug/L	-846 6010C Disso	P
Lead (Dissolved)	75	125	505		0	U	500	101		ug/L	-846 6010C Disso	P
Magnesium (Dissolved)	75	125	306000		283000		5000	468		ug/L	-846 6010C Disso	P
Molybdenum (Dissolved)	75	125	537		13.3	B	500	105		ug/L	-846 6010C Disso	P
Nickel (Dissolved)	75	125	499		0	U	500	100		ug/L	-846 6010C Disso	P
Potassium (Dissolved)	75	125	29400		18300		10000	111		ug/L	-846 6010C Disso	P
Selenium (Dissolved)	75	125	605		22.4	B	500	117		ug/L	-846 6010C Disso	P
Silver (Dissolved)	75	125	547		0	U	500	109		ug/L	-846 6010C Disso	P
Thallium (Dissolved)	75	125	502		0	U	500	100		ug/L	-846 6010C Disso	P
Titanium (Dissolved)	75	125	497		0	U	500	99		ug/L	-846 6010C Disso	P
Vanadium (Dissolved)	75	125	539		6.46	B	500	107		ug/L	-846 6010C Disso	P
Zinc (Dissolved)	75	125	915		366		500	110		ug/L	-846 6010C Disso	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Lab Sample ID: 994991

Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Calcium (Dissolved)	75	125	345000		339000		5000	109		ug/L	-846 6010C Disso	P
Manganese (Dissolved)	75	125	501		0	U	500	100		ug/L	-846 6010C Disso	P

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POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL
Sample ID: M114MW004PDS
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Level: (low / med)
Lab Sample ID: 995306
Orig Lab Sample ID: 21110010501

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Sodium (Dissolved)	75	125	2750000		2480000		500000	54		ug/L	-846 6010C Disso	P

FORM V (PART 2) - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS992252

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Lab Sample ID: 992252
LCS Source: 196-12-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4760	95	80	120	ug/L	SW-846 6010C	P
Antimony	500	466	93	80	120	ug/L	SW-846 6010C	P
Arsenic	500	464	93	80	120	ug/L	SW-846 6010C	P
Barium	500	469	94	80	120	ug/L	SW-846 6010C	P
Beryllium	500	467	93	80	120	ug/L	SW-846 6010C	P
Cadmium	500	468	94	80	120	ug/L	SW-846 6010C	P
Calcium	5000	4960	99	80	120	ug/L	SW-846 6010C	P
Chromium	500	468	94	80	120	ug/L	SW-846 6010C	P
Cobalt	500	460	92	80	120	ug/L	SW-846 6010C	P
Copper	500	460	92	80	120	ug/L	SW-846 6010C	P
Iron	5000	4750	95	80	120	ug/L	SW-846 6010C	P
Lead	500	460	92	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	4800	96	80	120	ug/L	SW-846 6010C	P
Manganese	500	469	94	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	475	95	80	120	ug/L	SW-846 6010C	P
Nickel	500	475	95	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9480	95	80	120	ug/L	SW-846 6010C	P
Selenium	500	456	91	80	120	ug/L	SW-846 6010C	P
Silver	500	476	95	80	120	ug/L	SW-846 6010C	P
Sodium	20000	19500	98	80	120	ug/L	SW-846 6010C	P
Thallium	500	466	93	80	120	ug/L	SW-846 6010C	P
Titanium	500	483	97	80	120	ug/L	SW-846 6010C	P
Vanadium	500	460	92	80	120	ug/L	SW-846 6010C	P
Zinc	500	464	93	80	120	ug/L	SW-846 6010C	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS993098

Lab Code: LA024
Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Lab Sample ID: 993098
LCS Source: 196-12-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5000	4940	99	80	120	ug/L	SW-846 6010C	P
Antimony	500	478	96	80	120	ug/L	SW-846 6010C	P
Arsenic	500	497	99	80	120	ug/L	SW-846 6010C	P
Barium	500	491	98	80	120	ug/L	SW-846 6010C	P
Beryllium	500	490	98	80	120	ug/L	SW-846 6010C	P
Cadmium	500	499	100	80	120	ug/L	SW-846 6010C	P
Calcium	5000	5040	101	80	120	ug/L	SW-846 6010C	P
Chromium	500	494	99	80	120	ug/L	SW-846 6010C	P
Cobalt	500	488	98	80	120	ug/L	SW-846 6010C	P
Copper	500	482	96	80	120	ug/L	SW-846 6010C	P
Iron	5000	5020	100	80	120	ug/L	SW-846 6010C	P
Lead	500	495	99	80	120	ug/L	SW-846 6010C	P
Magnesium	5000	5170	103	80	120	ug/L	SW-846 6010C	P
Manganese	500	494	99	80	120	ug/L	SW-846 6010C	P
Molybdenum	500	489	98	80	120	ug/L	SW-846 6010C	P
Nickel	500	494	99	80	120	ug/L	SW-846 6010C	P
Potassium	10000	9690	97	80	120	ug/L	SW-846 6010C	P
Selenium	500	496	99	80	120	ug/L	SW-846 6010C	P
Silver	500	490	98	80	120	ug/L	SW-846 6010C	P
Sodium	20000	20000	100	80	120	ug/L	SW-846 6010C	P
Thallium	500	493	99	80	120	ug/L	SW-846 6010C	P
Titanium	500	490	98	80	120	ug/L	SW-846 6010C	P
Vanadium	500	485	97	80	120	ug/L	SW-846 6010C	P
Zinc	500	489	98	80	120	ug/L	SW-846 6010C	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS992257
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Lab Sample ID: 992257
LCS Source: 196-12-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	5220	104	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	526	105	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	522	104	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	528	106	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	530	106	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	5220	104	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	520	104	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	518	104	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	515	103	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	5200	104	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	515	103	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	5240	105	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	522	104	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	495	99	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	532	106	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	10400	104	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	524	105	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	538	108	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	21500	107	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	525	105	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	501	100	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	512	102	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	532	106	80	120	ug/L	SW-846 6010C Dissolved	P

FORM VII - IN

211092804 STO

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS993093

Lab Code: LA024 Case No.:
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Lab Sample ID: 993093
LCS Source: 196-12-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum (Dissolved)	5000	4920	98	80	120	ug/L	SW-846 6010C Dissolved	P
Antimony (Dissolved)	500	482	96	80	120	ug/L	SW-846 6010C Dissolved	P
Arsenic (Dissolved)	500	502	100	80	120	ug/L	SW-846 6010C Dissolved	P
Barium (Dissolved)	500	491	98	80	120	ug/L	SW-846 6010C Dissolved	P
Beryllium (Dissolved)	500	498	100	80	120	ug/L	SW-846 6010C Dissolved	P
Cadmium (Dissolved)	500	503	101	80	120	ug/L	SW-846 6010C Dissolved	P
Calcium (Dissolved)	5000	5140	103	80	120	ug/L	SW-846 6010C Dissolved	P
Chromium (Dissolved)	500	492	98	80	120	ug/L	SW-846 6010C Dissolved	P
Cobalt (Dissolved)	500	493	99	80	120	ug/L	SW-846 6010C Dissolved	P
Copper (Dissolved)	500	482	96	80	120	ug/L	SW-846 6010C Dissolved	P
Iron (Dissolved)	5000	5000	100	80	120	ug/L	SW-846 6010C Dissolved	P
Lead (Dissolved)	500	502	100	80	120	ug/L	SW-846 6010C Dissolved	P
Magnesium (Dissolved)	5000	5080	102	80	120	ug/L	SW-846 6010C Dissolved	P
Manganese (Dissolved)	500	505	101	80	120	ug/L	SW-846 6010C Dissolved	P
Molybdenum (Dissolved)	500	486	97	80	120	ug/L	SW-846 6010C Dissolved	P
Nickel (Dissolved)	500	499	100	80	120	ug/L	SW-846 6010C Dissolved	P
Potassium (Dissolved)	10000	9590	96	80	120	ug/L	SW-846 6010C Dissolved	P
Selenium (Dissolved)	500	510	102	80	120	ug/L	SW-846 6010C Dissolved	P
Silver (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Sodium (Dissolved)	20000	20500	102	80	120	ug/L	SW-846 6010C Dissolved	P
Thallium (Dissolved)	500	497	99	80	120	ug/L	SW-846 6010C Dissolved	P
Titanium (Dissolved)	500	487	97	80	120	ug/L	SW-846 6010C Dissolved	P
Vanadium (Dissolved)	500	484	97	80	120	ug/L	SW-846 6010C Dissolved	P
Zinc (Dissolved)	500	500	100	80	120	ug/L	SW-846 6010C Dissolved	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS992260
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Lab Sample ID: 992260
LCS Source: 201-25-5 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	5.24	105	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL
Sample ID: LCS993104
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804
Lab Sample ID: 993104
LCS Source: 201-27-1 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	5.00	5.14	103	80	120	ug/L	SW-846 7470A	AV

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW003SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21109280402

Lab Sample ID: 992880

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			0	U	0	U			ug/L	SW-846 6010C	P
Antimony			5.29	B	0	U	100		ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Barium			20.7		20.8	B	.4		ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			0	U	0	U			ug/L	SW-846 6010C	P
Chromium			1.96	B	0	U	100		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			13.7		24.9	B	81.6		ug/L	SW-846 6010C	P
Iron			0	U	0	U			ug/L	SW-846 6010C	P
Lead			0	U	0	U			ug/L	SW-846 6010C	P
Magnesium	0	10	61200		58500		4.4		ug/L	SW-846 6010C	P
Manganese			10.2	B	10.6	B	3.9		ug/L	SW-846 6010C	P
Molybdenum			0	U	0	U			ug/L	SW-846 6010C	P
Nickel			0	U	0	U			ug/L	SW-846 6010C	P
Potassium	0	10	7750		8260		6.6		ug/L	SW-846 6010C	P
Selenium			0	U	0	U			ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Sodium	0	10	459000		445000		3		ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			1.24	B	0	U	100		ug/L	SW-846 6010C	P
Vanadium			29.6		41.5	B	40.3		ug/L	SW-846 6010C	P
Zinc			339		303		10.6		ug/L	SW-846 6010C	P

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SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW003SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21109280402

Lab Sample ID: 993435

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Calcium	0	10	64100		63700		.6		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Lab Code: LA024 Case No.
Matrix: (soil / water) Water
Level: (low / med)
Lab Sample ID: 994156

Sample ID: M114MW004SD
Contract:
SAS No.: SDG No.: 211092804
Org Lab Sample ID: 21110010501

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			110	B	0	U	100		ug/L	SW-846 6010C	P
Antimony			0	U	0	U			ug/L	SW-846 6010C	P
Arsenic			0	U	0	U			ug/L	SW-846 6010C	P
Barium			15.2		15.3	B	.5		ug/L	SW-846 6010C	P
Beryllium			0	U	0	U			ug/L	SW-846 6010C	P
Cadmium			1.58	B	1.13	B	28.5		ug/L	SW-846 6010C	P
Chromium			4.29	B	0	U	100		ug/L	SW-846 6010C	P
Cobalt			0	U	0	U			ug/L	SW-846 6010C	P
Copper			13.8		55.1		298		ug/L	SW-846 6010C	P
Iron			0	U	0	U			ug/L	SW-846 6010C	P
Lead			0	U	0	U			ug/L	SW-846 6010C	P
Magnesium	0	10	283000		306000		8.2		ug/L	SW-846 6010C	P
Molybdenum			13.1	B	0	U	100		ug/L	SW-846 6010C	P
Nickel			1.22	B	0	U	100		ug/L	SW-846 6010C	P
Potassium	0	10	17100		15700		8		ug/L	SW-846 6010C	P
Selenium			21.6	B	0	U	100		ug/L	SW-846 6010C	P
Silver			0	U	0	U			ug/L	SW-846 6010C	P
Thallium			0	U	0	U			ug/L	SW-846 6010C	P
Titanium			0	U	0	U			ug/L	SW-846 6010C	P
Vanadium			4	B	84.8	B	2020		ug/L	SW-846 6010C	P
Zinc			347		397		14.3		ug/L	SW-846 6010C	P

FORM IX - IN

211092804 3T5

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: M114MW004SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21110010501

Lab Sample ID: 994994

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Calcium	0	10	303000		323000		6.8		ug/L	SW-846 6010C	P
Manganese			3.49	B	0	U	100		ug/L	SW-846 6010C	P

FORM IX - IN

211092804 3TT

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: M114MW004SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21110010501

Lab Sample ID: 995309

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium	0	10	2170000		2130000		2		ug/L	SW-846 6010C	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW003SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21109280402

Lab Sample ID: 992882

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Arsenic (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Barium (Dissolved)			18.1		17.8	B	1.9		ug/L	-846 6010C Dissol	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Cadmium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Chromium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Copper (Dissolved)			12.7		21.9	B	72.1		ug/L	-846 6010C Dissol	P
Iron (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Lead (Dissolved)			0	U	7.08	B			ug/L	-846 6010C Dissol	P
Magnesium (Dissolved)	0	10	58700		58200		.9		ug/L	-846 6010C Dissol	P
Manganese (Dissolved)			8.24	B	0	U	100		ug/L	-846 6010C Dissol	P
Molybdenum (Dissolved			0	U	0	U			ug/L	-846 6010C Dissol	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Potassium (Dissolved)	0	10	7620		8200		7.6		ug/L	-846 6010C Dissol	P
Selenium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Sodium (Dissolved)	0	10	430000		443000		3.1		ug/L	-846 6010C Dissol	P
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Titanium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissol	P
Vanadium (Dissolved)			26.7		35.3	B	32.2		ug/L	-846 6010C Dissol	P
Zinc (Dissolved)			316		283		10.5		ug/L	-846 6010C Dissol	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW003SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21109280402

Lab Sample ID: 993433

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Calcium (Dissolved)	0	10	58600		52800		9.9		ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: M114MW004SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21110010501

Lab Sample ID: 994158

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Antimony (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Arsenic (Dissolved)			4.75	B	0	U	100		ug/L	-846 6010C Dissolv	P
Barium (Dissolved)			15		14.7	B	1.9		ug/L	-846 6010C Dissolv	P
Beryllium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Cadmium (Dissolved)			1.4	B	0	U	100		ug/L	-846 6010C Dissolv	P
Chromium (Dissolved)			2.38	B	0	U	100		ug/L	-846 6010C Dissolv	P
Cobalt (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Copper (Dissolved)			17.6		59.7		239		ug/L	-846 6010C Dissolv	P
Iron (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Lead (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Magnesium (Dissolved)	0	10	283000		311000		9.9		ug/L	-846 6010C Dissolv	P
Molybdenum (Dissolved			13.3	B	0	U	100		ug/L	-846 6010C Dissolv	P
Nickel (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Potassium (Dissolved)	0	10	18300		16600		9.1		ug/L	-846 6010C Dissolv	P
Selenium (Dissolved)			22.4	B	0	U	100		ug/L	-846 6010C Dissolv	P
Silver (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Thallium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Titanium (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P
Vanadium (Dissolved)			6.46	B	84.7	B	1210		ug/L	-846 6010C Dissolv	P
Zinc (Dissolved)			366		360		1.6		ug/L	-846 6010C Dissolv	P

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: M114MW004SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21110010501

Lab Sample ID: 994992

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Calcium (Dissolved)	0	10	339000		350000		3.1		ug/L	-846 6010C Dissolv	P
Manganese (Dissolved)			0	U	0	U			ug/L	-846 6010C Dissolv	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Lab Code: LA024 Case No.
Matrix: (soil / water) Water
Level: (low / med)
Lab Sample ID: 995307

Sample ID: M114MW004SD
Contract:
SAS No.: SDG No.: 211092804
Org Lab Sample ID: 21110010501

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Sodium (Dissolved)	0	10	2480000		2400000		3.1		ug/L	-846 6010C Dissol	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: MA01MW003SD

Lab Code: LA024 Case No.
Contract:

Matrix: (soil / water) Water
SAS No.: SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21109280402

Lab Sample ID: 992720

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0.09518	B	0	U	100		ug/L	SW-846 7470A	AV

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL
Sample ID: M114MW002SD

Lab Code: LA024
Case No.
Contract:

Matrix: (soil / water) Water
SAS No.:
SDG No.: 211092804

Level: (low / med)
Org Lab Sample ID: 21110010505

Lab Sample ID: 993527

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Mercury			0.10199	B	0	U	100		ug/L	SW-846 7470A	AV

FORM IX - IN

METHOD DETECTION LIMITS

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211092804

Study Date: (P)08/25/11(AV)09/9/11

Instrument ID: (P) ICP5 / ICP6 (AV) FIMS1

Analyte	*MDL*	*Units*	*Type*
Aluminum	0.060	mg/L	P
Antimony	0.0040	mg/L	P
Arsenic	0.0035	mg/L	P
Barium	0.0016	mg/L	P
Beryllium	0.000082	mg/L	P
Cadmium	0.00020	mg/L	P
Calcium	0.050	mg/L	P
Chromium	0.0010	mg/L	P
Cobalt	0.0010	mg/L	P
Copper	0.0017	mg/L	P
Iron	0.040	mg/L	P
Lead	0.0028	mg/L	P
Magnesium	0.050	mg/L	P
Manganese	0.0020	mg/L	P
Mercury	0.000075	mg/L	AV
Nickel	0.00084	mg/L	P
Potassium	0.10	mg/L	P
Selenium	0.0038	mg/L	P
Silver	0.00064	mg/L	P
Sodium	0.20	mg/L	P
Thallium	0.0026	mg/L	P
Titanium	0.0012	mg/L	P
Vanadium	0.00375	mg/L	P
Zinc	0.0059	mg/L	P

IEC File Last Saved: 8/11/2011 8:57:03 AM
Printed On: 10/11/2011 9:20:04 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Aluminum,7429-90-5	Calcium,7440-70-2	Chromium,7440-47-3	Copper,7440-50-8
1	**Aluminum,7429-90-5**	**n/a**	-0.0286577	-0.683808	-0.739605
2	**Antimony,7440-36-0**	0.00126	-0.00154809	19.7708	-0.00261635
5	**Arsenic,7440-38-2**	-0.0561283	0	0.111312	-0.0157937
6	**Barium,7440-39-3**	0.00119	0.0104879	0.00928673	0.00299839
7	**Beryllium,7440-41-7**	0	0	-0.0110458	0.0397649
8	**Boron,7440-42-8**	0.00731867	0.0143787	0.252103	0.0420573
9	**Cadmium,7440-43-9**	0.01388	-0.00126797	-0.18818	0.0200079
10	**Calcium,7440-70-2**	0.027832	**n/a**	-1.88215	0.238788
11	**Chromium,7440-47-3**	0.04794	0	**n/a**	0.0158997
12	**Cobalt,7440-48-4**	0	0	-0.182477	0.0737948
13	**Copper,7440-50-8**	0.00217697	0	-0.233183	**n/a**
14	**Iron,7439-89-6**	0.0513325	0.00320007	0.341469	0.00799524
15	**Lead,7439-92-1**	-0.11696	-0.0102341	-0.0521034	0.468523
16	**Lithium,7439-93-2**	-0.00694086	-0.00456089	-0.0232596	0.0112586
17	**Magnesium,7439-95-4**	0.00230743	0.00138452	-0.0475728	0.107302
18	**Manganese,7439-96-5**	-0.01098	0	-0.0698207	0.00154313
19	**Molybdenum,7439-98-7**	0	-0.0036713	0.0730874	0.00244185
20	**Nickel,7440-02-0**	-0.00116781	0	0.0156546	-0.00226366
21	**Potassium,7440-09-7**	-0.38977	-0.00863437	0	0
23	**Selenium,7782-49-2**	-0.00368754	-0.00201218	-0.0535067	0.0174661
24	**Silicon,7440-21-3**	0.00320213	0.133494	-0.153804	-0.0284434
25	**Silver,7440-22-4**	0.00125187	-0.00730783	0.00672254	0.0443056
26	**Sodium,7440-23-5**	0.161946	0.0731612	0.763138	-0.0962373
27	**Strontium,7440-24-6**	0	0.0309314	0.00116797	0
28	**Thallium,7440-28-0**	0.00420794	0.00186109	0.150794	0.0114215
29	**Tin,7440-31-5**	0.0075104	-0.0081075	-0.0386812	0.00306447
30	**Titanium,7440-32-6**	0	0	0.00184524	0.00389563
31	**Vanadium,7440-62-2**	0.00116604	0.00405548	-1.40859	-0.00590393
34	**Zinc,7440-66-6**	0	0	-0.0255995	0.325487
35	**Zirconium,7440-67-7**	0	0.00664328	-0.0817625	-0.00146221

211092664 367

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Printed On: 10/11/2011 9:20:04 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Iron,7439-89-6	Magnesium,7439-95-4	Manganese,7439-96-5	Nickel,7440-02-0
1	Aluminum,7429-90-5	-0.209169	-0.0286382	-0.811012	-0.146358
2	Antimony,7440-36-0	0.0100634	0.00138303	-0.0586308	-0.0387175
5	Arsenic,7440-38-2	-0.0332269	0	-0.302726	-0.597021
6	Barium,7440-39-3	0.0801818	0	-0.0732571	-0.0111359
7	Beryllium,7440-41-7	0	0	0.0120213	0.000619666
8	Boron,7440-42-8	-3.96118	0.238211	-0.00417606	0.166055
9	Cadmium,7440-43-9	0.0475699	-0.00194133	0.0101938	0.0900079
10	Calcium,7440-70-2	0.082379	0.660707	0.618928	0.399017
11	Chromium,7440-47-3	-0.0118578	0.0108593	0.474659	0.00475246
12	Cobalt,7440-48-4	0.0221311	0	0.0111715	0.159633
13	Copper,7440-50-8	-0.056107	0.0277851	-0.183544	-0.0590739
14	Iron,7439-89-6	n/a	0.0745416	-0.194161	0.119767
15	Lead,7439-92-1	0.0238128	0.00198206	0.166849	-0.112457
16	Lithium,7439-93-2	0.214196	0.00776558	0.0894097	0.0488182
17	Magnesium,7439-95-4	0.0749935	n/a	-6.10544	0.189097
18	Manganese,7439-96-5	-0.018345	0.0170552	n/a	0.00687926
19	Molybdenum,7439-98-7	-0.0594203	0	-0.0264535	0
20	Nickel,7440-02-0	0.00626378	0.00121603	0.0424259	n/a
21	Potassium,7440-09-7	0.8516	0.597748	0	0
23	Selenium,7782-49-2	-0.384237	-0.00285659	0.664143	-0.00686401
24	Silicon,7440-21-3	-0.0277401	0.655916	-0.0310742	-0.0554139
25	Silver,7440-22-4	-0.0217091	0.00161927	0.261444	0.00389222
26	Sodium,7440-23-5	-0.0360744	0.154506	-0.892652	-0.207123
27	Strontium,7440-24-6	0.00164257	0.00198121	-0.0012808	0
28	Thallium,7440-28-0	0.0218736	-0.00658303	-7.62549	0.0103223
29	Tin,7440-31-5	-0.0182914	0.0164941	-0.020679	0.00282765
30	Titanium,7440-32-6	0	0.00156352	0.00477341	0
31	Vanadium,7440-62-2	0.0603495	0.108726	-0.0120246	-0.0114093
34	Zinc,7440-66-6	0.0901781	0.0154919	0.130107	6.96965
35	Zirconium,7440-67-7	0.013643	0	0.0045963	-0.0320422

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IEC File Last Saved: 8/11/2011 8:57:03 AM
Printed On: 10/11/2011 9:20:04 AM

Results Data Set Name: 2110412 IE
Method Name: ICP
Results Library: C:\pe\met\results2\Results\Results.md

Interfering Analytes

	Analytes	Titanium,7440-32-6	Vanadium,7440-62-2
1	**Aluminum,7429-90-5**	0.7442	12.9771
2	**Antimony,7440-36-0**	-0.667254	-2.71411
5	**Arsenic,7440-38-2**	-0.0185473	-17.0541
6	**Barium,7440-39-3**	-0.0167887	-1.59345
7	**Beryllium,7440-41-7**	-2.44132	-0.0379181
8	**Boron,7440-42-8**	0.0834021	-0.260126
9	**Cadmium,7440-43-9**	-0.00518088	-0.00377344
10	**Calcium,7440-70-2**	0.538917	0.18595
11	**Chromium,7440-47-3**	0.0323753	-0.525557
12	**Cobalt,7440-48-4**	2.25207	0.0215555
13	**Copper,7440-50-8**	-0.287768	-0.293651
14	**Iron,7439-89-6**	0.0371013	0.420021
15	**Lead,7439-92-1**	-0.308356	-0.0486499
16	**Lithium,7439-93-2**	0.0612274	-0.0118191
17	**Magnesium,7439-95-4**	0.783002	0.39872
18	**Manganese,7439-96-5**	0.0195422	0.0105513
19	**Molybdenum,7439-98-7**	0.0114226	-0.178552
20	**Nickel,7440-02-0**	0.00441814	0.006173
21	**Potassium,7440-09-7**	0	0
23	**Selenium,7782-49-2**	-0.0674685	0.309972
24	**Silicon,7440-21-3**	0	0.229195
25	**Silver,7440-22-4**	0.0121537	-4.14794
26	**Sodium,7440-23-5**	-0.614069	-0.540203
27	**Strontium,7440-24-6**	-0.00266828	0.0149492
28	**Thallium,7440-28-0**	-2.9843	-5.55107
29	**Tin,7440-31-5**	-3.276	-0.00781111
30	**Titanium,7440-32-6**	**n/a**	0.0528384
31	**Vanadium,7440-62-2**	-0.0661099	**n/a**
34	**Zinc,7440-66-6**	-0.504326	-0.0471577
35	**Zirconium,7440-67-7**	0.204891	-0.0115903

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ICP LINEAR RANGES

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 211092804

Study Date: 04/12/11

Instrument ID: ICP6

Analyte	*Concentration*	*% Recovery*	*Units*	*Type*
Aluminum	1500	94	mg/L	P
Antimony	25	97	mg/L	P
Arsenic	25	95	mg/L	P
Barium	25	96	mg/L	P
Beryllium	5	95	mg/L	P
Boron	50	97	mg/L	P
Cadmium	15	96	mg/L	P
Calcium	2000	94	mg/L	P
Chromium	120	96	mg/L	P
Cobalt	150	98	mg/L	P
Copper	100	96	mg/L	P
Iron	500	92	mg/L	P
Lead	500	97	mg/L	P
Lithium	20	96	mg/L	P
Magnesium	900	91	mg/L	P
Manganese	30	90	mg/L	P
Molybdenum	100	91	mg/L	P
Nickel	60	95	mg/L	P
Potassium	160	96	mg/L	P
Selenium	15	96	mg/L	P
Silver	10	102	mg/L	P
Silicon	20	90	mg/L	P
Sodium	600	93	mg/L	P
Strontium	5	99	mg/L	P
Thallium	25	99	mg/L	P
Tin	50	95	mg/L	P
Titanium	40	91	mg/L	P
Vanadium	100	90	mg/L	P
Zinc	13	90	mg/L	P
Zirconium	25	104	mg/L	P

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 6010C Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FD-1	09/30/11			50	mL
LCS992252	09/30/11			50	mL
MA01-MW002	09/30/11			50	mL
MA01-MW004	09/30/11			50	mL
MA01MW001	09/30/11			50	mL
MA01MW003	09/30/11			50	mL
MA01MW003-MS	09/30/11			50	mL
MA01MW003-MSD	09/30/11			50	mL
MA02 MW001D	09/30/11			50	mL
MB992251	09/30/11			50	mL
MWQ-23	09/30/11			50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 6010C Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
EB-1	10/04/11			50	mL
LCS993098	10/04/11			50	mL
M114MW001	10/04/11			50	mL
M114MW002	10/04/11			50	mL
M114MW003	10/04/11			50	mL
M114MW004	10/04/11			50	mL
M114MW004MS	10/04/11			50	mL
M114MW004MSD	10/04/11			50	mL
MB993097	10/04/11			50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 6010C Dissolved Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FD-1	09/30/11			50	mL
LCS992257	09/30/11			50	mL
MA01-MW002	09/30/11			50	mL
MA01-MW004	09/30/11			50	mL
MA01MW001	09/30/11			50	mL
MA01MW003	09/30/11			50	mL
MA01MW003-MS	09/30/11			50	mL
MA01MW003-MSD	09/30/11			50	mL
MA02 MW001D	09/30/11			50	mL
MB992256	09/30/11			50	mL
MWQ-23	09/30/11			50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 6010C Dissolved Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
EB-1	10/04/11			50	mL
LCS993093	10/04/11			50	mL
M114MW001	10/04/11			50	mL
M114MW002	10/04/11			50	mL
M114MW003	10/04/11			50	mL
M114MW004	10/04/11			50	mL
M114MW004MS	10/04/11			50	mL
M114MW004MSD	10/04/11			50	mL
MB993092	10/04/11			50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 7470A Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FD-1	09/30/11			20	mL
LCS992260	09/30/11			20	mL
MA01-MW002	09/30/11			20	mL
MA01-MW004	09/30/11			20	mL
MA01MW001	09/30/11			20	mL
MA01MW003	09/30/11			20	mL
MA01MW003-MS	09/30/11			20	mL
MA01MW003-MSD	09/30/11			20	mL
MA02 MW001D	09/30/11			20	mL
MB992259	09/30/11			20	mL
MWQ-23	09/30/11			20	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 7470A Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
EB-1	10/04/11			20	mL
LCS993104	10/04/11			20	mL
M114MW001	10/04/11			20	mL
M114MW002	10/04/11			20	mL
M114MW002MS	10/04/11			20	mL
M114MW002MSD	10/04/11			20	mL
M114MW003	10/04/11			20	mL
M114MW004	10/04/11			20	mL
MB993103	10/04/11			20	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 7470A Dissolved Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FD-1	09/30/11			20	mL
LCS992260	09/30/11			20	mL
MA01-MW002	09/30/11			20	mL
MA01-MW004	09/30/11			20	mL
MA01MW001	09/30/11			20	mL
MA01MW003	09/30/11			20	mL
MA01MW003-MS	09/30/11			20	mL
MA01MW003-MSD	09/30/11			20	mL
MA02 MW001D	09/30/11			20	mL
MB992259	09/30/11			20	mL
MWQ-23	09/30/11			20	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804

Method: SW-846 7470A Dissolved Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
EB-1	10/04/11			20	mL
LCS993104	10/04/11			20	mL
M114MW001	10/04/11			20	mL
M114MW002	10/04/11			20	mL
M114MW002MS	10/04/11			20	mL
M114MW002MSD	10/04/11			20	mL
M114MW003	10/04/11			20	mL
M114MW004	10/04/11			20	mL
MB993103	10/04/11			20	mL

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/03/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/04/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1105	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICV2	*	1	1112																															
ICB	*	1	1124	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL	*	1	1133	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL2	*	1	1140	X															X														X	
ICSA	*	1	1206	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
ICSAB	*	1	1228	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	1243	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1250	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CRDL2	*	1	1301																													X		
CCV	*	1	1308	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	1315	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	2119	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	2126	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB992256(Dissolved)	*	1	2133	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
LCS992257(Dissolved)	*	1	2141	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003(Dissolved)	*	1	2148	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003-MS(Dissolved)	*	1	2156	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003-MSD(Dissolved)	*	1	2202	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003PDS(Dissolved)	*	1	2209	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003SD(Dissolved)	*	5	2216	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW001(Dissolved)	*	1	2223	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
CCV	*	1	2246	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	2253	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA02 MW001D(Dissolved)	*	1	2301	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
FD-1(Dissolved)	*	1	2308	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-23(Dissolved)	*	1	2315	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

SDG 211092804 211092804

ANALYSIS RUN LOG

Lab Name: GCAL   Contract: Start Date: 10/03/11

Lab Code: LA024   Case No.:   SAS No.:   SDG No.: 211092804   End Date: 10/04/11

Instrument ID Number: ICP6   Method: SW-846 6010C   Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MA01-MW004(Dissolved)	*	1	2323	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01-MW002(Dissolved)	*	1	2331	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MB992251	*	1	2347	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
LCS992252	*	1	2354	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003	*	1	0001	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003-MS	*	1	0009	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	0016	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	0023	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003-MSD	*	1	0030	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003PDS	*	1	0038	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW003SD	*	5	0044	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01MW001	*	1	0052	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA02 MW001D	*	1	0100	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
FD-1	*	1	0107	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X			X		X	X	X	
MWQ-23	*	1	0115	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01-MW004	*	1	0123	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
MA01-MW002	*	1	0131	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCV	*	1	0146	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	
CCB	*	1	0153	X	X	X	X	X		X		X	X	X	X	X		X	X		X	X	X	X		X	X		X		X	X	X	

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/04/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/04/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0954																								X							
ICV2	*	1	1008																															
ICB	*	1	1014																								X							
CRDL	*	1	1020																								X							
CRDL2	*	1	1027																															
ICSA	*	1	1035																								X							
ICSAB	*	1	1043																								X							
CCV	*	1	1051																								X							
CCB	*	1	1057																								X							
CCV	*	1	1619																								X							
CCB	*	1	1626																								X							
MA01MW001(Dissolved)	*	2	1710																								X							
MA02 MW001D(Dissolved)	*	25	1718																								X							
FD-1(Dissolved)	*	25	1727																								X							
MA02 MW001D	*	25	1735																								X							
FD-1	*	25	1743																								X							
CCV	*	1	1750																								X							
CCB	*	1	1757																								X							

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/05/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/06/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols: Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1004								X																						
ICV2	*	1	1012																														
ICB	*	1	1031								X																						
CRDL	*	1	1038																														
CRDL2	*	1	1046																														
ICSA	*	1	1053								X																						
ICSAB	*	1	1101								X																						
CCV	*	1	1115								X																						
CCB	*	1	1124								X																						
CRDL2	*	1	1132								X																						
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1147																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1154																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1201																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1217																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1225																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1232																														
CCV	*	1	1247								X																						
CCB	*	1	1255								X																						
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1327																														
MB992256(Dissolved)	*	1	1342								X																						
LCS992257(Dissolved)	*	1	1350								X																						
MA01MW003(Dissolved)	*	1	1358								X																						
MA01MW003-MS(Dissolved)	*	1	1406								X																						
CCV	*	1	1421								X																						
CCB	*	1	1443								X																						
MA01MW003PDS(Dissolved)	*	1	1451								X																						
MA01MW003SD(Dissolved)	*	5	1458								X																						

Z04 1092804T2

ANALYSIS RUN LOG

Lab Name: GCAL　　Contract: ______　　Start Date: 10/05/11

Lab Code: LA024　　Case No.: ______　　SAS No.: ______　　SDG No.: 211092804　　End Date: 10/06/11

Instrument ID Number: ICP6　　Method: SW-846 6010C　　Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MA01MW001(Dissolved)	*	1	1505								X																							
MA02 MW001D(Dissolved)	*	1	1513								X																							
FD-1(Dissolved)	*	1	1530								X																							
MWQ-23(Dissolved)	*	1	1537								X																							
MA01-MW004(Dissolved)	*	1	1544								X																							
MA01-MW002(Dissolved)	*	1	1555								X																							
MA01MW003-MSD(Dissolved)	*	1	1608								X																							
CCV	*	1	1617								X																							
CCB	*	1	1624								X																							
MB992251	*	1	1633								X																							
LCS992252	*	1	1641								X																							
MA01MW003	*	1	1648								X																							
MA01MW003-MS	*	1	1657								X																							
MA01MW003-MSD	*	1	1703								X																							
MA01MW003PDS	*	1	1711								X																							
MA01MW003SD	*	5	1717								X																							
MA01MW001	*	1	1725								X																							
CCV	*	1	1733								X																							
CCB	*	1	1740								X																							
MA02 MW001D	*	1	1748								X																							
FD-1	*	1	1755								X																							
MWQ-23	*	1	1802								X																							
MA01-MW004	*	1	1810								X																							
MA01-MW002	*	1	1818								X																							
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1841																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1849																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1856																															

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/05/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/06/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols																														
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCV	*	1	1903								X																						
CCB	*	1	1910								X																						

FAS 1092804 211092804

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/06/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/06/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0951	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
ICV2	*	1	1000																															
ICB	*	1	1020	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CRDL	*	1	1028	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CRDL2	*	1	1036																															
ICSA	*	1	1055	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
ICSAB	*	1	1112	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCV	*	1	1125	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1132	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CRDL2	*	1	1141												X																			
CCV	*	1	1149	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1156	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCV	*	1	1501	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1508	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
MB993092(Dissolved)	*	1	1519	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
LCS993093(Dissolved)	*	1	1527	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004(Dissolved)	*	1	1533	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004MS(Dissolved)	*	1	1540	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004MSD(Dissolved)	*	1	1545	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004PDS	*	1	1551	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004SD	*	5	1557	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW001(Dissolved)	*	1	1605	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCV	*	1	1627	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1634	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
EB-1(Dissolved)	*	1	1641	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW002(Dissolved)	*	1	1648	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW003(Dissolved)	*	1	1655	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	

SDG 211092804 12/9/11

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/06/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/06/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MB993097	*	1	1717	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
LCS993098	*	1	1724	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004	*	1	1730	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004MS	*	1	1737	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004MSD	*	1	1743	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCV	*	1	1748	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1755	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004PDS	*	1	1802	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW004SD	*	5	1808	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW001	*	1	1815	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
EB-1	*	1	1822	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW002	*	1	1829	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
M114MW003	*	1	1836	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1857																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1905																															
CCV	*	1	1911	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	
CCB	*	1	1917	X	X	X	X	X		X		X	X	X	X	X		X			X	X	X	X		X			X		X	X	X	

SDG 211092804

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/10/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/10/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0937								X								X								X							
ICV2	*	1	0954																															
ICB	*	1	1002								X								X								X							
CRDL	*	1	1009								X								X								X							
CRDL2	*	1	1016								X								X								X							
ICSA	*	1	1024								X								X								X							
ICSAB	*	1	1031								X								X								X							
CCV	*	1	1038								X								X								X							
CCB	*	1	1044								X								X								X							
MB933092(Dissolved)	*	1	1050								X								X								X							
LCS933093(Dissolved)	*	1	1057								X								X								X							
M114MW004(Dissolved)	*	25	1104																								X							
M114MW004MS(Dissolved)	*	25	1111																								X							
M114MW004MSD(Dissolved)	*	25	1118																								X							
M114MW004PDS(Dissolved)	*	25	1125																								X							
M114MW004SD(Dissolved)	*	125	1132																								X							
CCV	*	1	1202								X								X								X							
CCB	*	1	1213								X								X								X							
M114MW001(Dissolved)	*	25	1220																								X							
EB-1(Dissolved)	*	1	1228								X								X								X							
M114MW002(Dissolved)	*	25	1235																								X							
M114MW003(Dissolved)	*	25	1243																								X							
MB993097	*	1	1313								X								X								X							
LCS993098	*	1	1320								X								X								X							
M114MW004	*	25	1327																								X							
CCV	*	1	1336								X								X								X							
CCB	*	1	1342								X								X								X							

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/10/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/10/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
M114MW004MS	*	25	1350																								X							
M114MW004MSD	*	25	1357																								X							
M114MW004PDS	*	25	1404																								X							
M114MW004SD	*	125	1411																								X							
M114MW001	*	25	1419																								X							
EB-1	*	1	1426								X								X								X							
M114MW002	*	25	1434																								X							
M114MW003	*	25	1441																								X							
CCV	*	1	1504								X								X								X							
CCB	*	1	1511								X								X								X							
M114MW004(Dissolved)	*	1	1530								X								X															
M114MW004MS(Dissolved)	*	1	1536								X								X															
M114MW004MSD(Dissolved)	*	1	1542								X								X															
M114MW004PDS(Dissolved)	*	1	1547								X								X															
M114MW004SD(Dissolved)	*	5	1553								X								X															
M114MW001(Dissolved)	*	1	1601								X								X															
M114MW002(Dissolved)	*	1	1608								X								X															
M114MW003(Dissolved)	*	1	1616								X								X															
CCV	*	1	1639								X								X								X							
CCB	*	1	1646								X								X								X							
M114MW004	*	1	1653								X								X															
M114MW004MS	*	1	1659								X								X															
M114MW004MSD	*	1	1705								X								X															
M114MW004PDS	*	1	1710								X								X															
M114MW004SD	*	5	1717								X								X															
M114MW001	*	1	1725								X								X															
M114MW002	*	1	1731								X								X															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/10/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/10/11

Instrument ID Number: ICP6 Method: SW-846 6010C Method Type: P

				Analyte Symbols																																
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
M114MW003	*	1	1737								X								X															
CCV	*	1	1759								X								X								X							
CCB	*	1	1806								X								X								X							

Sat 10/29/11 12:

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/03/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/03/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1600																	X														
ICB	*	1	1603																	X														
CCV	*	1	1605																	X														
CCB	*	1	1606																	X														
MB992259	*	1	1614																	X														
LCS992260	*	1	1616																	X														
MA01MW003	*	1	1617																	X														
MA01MW003-MS	*	1	1619																	X														
MA01MW003-MSD	*	1	1620																	X														
MA01MW003SD	*	5	1622																	X														
CCV	*	1	1624																	X														
CCB	*	1	1625																	X														
MA01MW003(Dissolved)	*	1	1627																	X														
MA01MW003-MS(Dissolved)	*	1	1629																	X														
MA01MW003-MSD(Dissolved)	*	1	1630																	X														
MA01MW001	*	1	1632																	X														
MA01MW001(Dissolved)	*	1	1633																	X														
MA02 MW001D	*	1	1635																	X														
MA02 MW001D(Dissolved)	*	1	1637																	X														
FD-1	*	1	1638																	X														
FD-1(Dissolved)	*	1	1640																	X														
MWQ-23	*	1	1641																	X														
CCV	*	1	1643																	X														
CCB	*	1	1645																	X														
MWQ-23(Dissolved)	*	1	1646																	X														
MA01-MW004	*	1	1648																	X														
MA01-MW004(Dissolved)	*	1	1649																	X														

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/03/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/03/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

Sample No.	PF	D/F	Time	Analyte Symbols																													
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
MA01-MW002	*	1	1651																	X													
MA01-MW002(Dissolved)	*	1	1652																	X													
CCV	*	1	1702																	X													
CCB	*	1	1704																	X													

T14 1492SOTT2

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/05/11

Lab Code: LA024 Case No.: SAS No.: SDG No.: 211092804 End Date: 10/05/11

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																															
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1207																	X														
ICB	*	1	1209																	X														
CCV	*	1	1211																	X														
CCB	*	1	1212																	X														
CCV	*	1	1249																	X														
CCB	*	1	1251																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1252																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1257																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1259																															
MB993103	*	1	1300																	X														
LCS993104	*	1	1302																	X														
M114MW002(Dissolved)	*	1	1304																	X														
M114MW002	*	1	1305																	X														
M114MW002MS	*	1	1307																	X														
CCV	*	1	1308																	X														
CCB	*	1	1310																	X														
M114MW002MSD	*	1	1312																	X														
M114MW002SD	*	5	1313																	X														
M114MW004(Dissolved)	*	1	1315																	X														
M114MW004	*	1	1316																	X														
M114MW001(Dissolved)	*	1	1318																	X														
M114MW001	*	1	1320																	X														
EB-1(Dissolved)	*	1	1321																	X														
EB-1	*	1	1323																	X														
M114MW003(Dissolved)	*	1	1324																	X														
M114MW003	*	1	1326																	X														
CCV	*	1	1328																	X														

211092804 211092T2 215

ANALYSIS RUN LOG

Lab Name: GCAL
Contract:
Start Date: 10/05/11

Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 211092804
End Date: 10/05/11

Instrument ID Number: FIMS1
Method: SW-846 7470A
Method Type: AV

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCB	*	1	1329																	X														

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 12:40 End: 14:40	BATCH NO:	466323
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☐ 3050B ☐ 3051 ☐ 6010C(W)

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466323 [DIGM/28145]	992251	50	50	MB		HNO3 19622-4
2	QC ACCOUNT	LCS for HBN 466323 [DIGM/28145	992252			LCS		
3	4747	MA01MW001	21109280401			SAMPLE		HCL 19621-5
4	4747	MA01MW003	21109280402			SAMPLE		
5	4747	MA01MW003-MS	21109280403			MS		H2O2
6	4747	MA01MW003-MSD	21109280404			MSD		
7	4747	MA02 MW001D	21109280407			SAMPLE		SOLID MATERIAL:
8	4747	FD-1	21109280408			FLDDUP		
9	4747	MWQ-23	21109280410			SAMPLE		
10	4747	MA01-MW004	21109280411			SAMPLE		
11	4747	MA01-MW002	21109280412			SAMPLE		
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 19611e1
20								
21								GCALI-2 - 250uL 19611e2
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 950

BLOCK ID	TECHNICIAN	DATE
A7 33 Q-1671	JG	9-30-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JG	bmc	10/7/11

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 11:35 End: 13:35	BATCH NO:	466511
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐ 6010C W

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466511 [DIGM/28166]	993097	50	50	MB		HNO3 196224
2	QC ACCOUNT	LCS for HBN 466511 [DIGM/28166	993098			LCS		
3	4747	M114MW004	21110010501			SAMPLE		HCL 196215
4	QC ACCOUNT	M114MW004(992585MS)	993099			MS		
5	QC ACCOUNT	M114MW004(992585MSD)	993100			MSD		H2O2
6	4747	M114MW001	21110010502			SAMPLE		
7	4747	EB-1	21110010504			EQBK		SOLID MATERIAL:
8	4747	M114MW002	21110010505			SAMPLE		
9	4747	M114MW003	21110010506			SAMPLE		
10								
11								
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCAL1-1 - 250uL 196117-1
20								
21								GCAL2 - 250uL 196162
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 050

BLOCK ID	TECHNICIAN	DATE
A7 33-9-111	JM	10-15-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JM	[illegible]	10/7/11

Revision 1, 08/10/2010

211092664 415

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 11:35 End: 13:35	BATCH NO:	466510
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☐ 3050B ☐ 3051 ☐ 6010C Diss

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466510 [DIGM/28165]	993092	50	50	MB		HNO3 196224
2	QC ACCOUNT	LCS for HBN 466510 [DIGM/28165	993093			LCS		
3	4747	M114MW004	21110010501			SAMPLE	Field Filtered	HCL 196245
4	QC ACCOUNT	M114MW004(992585MS)	993094			MS		
5	QC ACCOUNT	M114MW004(992585MSD)	993095			MSD		H2O2
6	4747	M114MW001	21110010502			SAMPLE		
7	4747	EB-1	21110010504			EQBK		SOLID MATERIAL:
8	4747	M114MW002	21110010505			SAMPLE		
9	4747	M114MW003	21110010506			SAMPLE		
10								
11								
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 196116-1
20								
21								GCALI-2 - 250uL 196116-2
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 95°

BLOCK ID	TECHNICIAN	DATE
A1 33 9-7-11	JEL	10-4-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JEL	[illegible]	10/7/11

Revision 1, 08/10/2010

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 1240 End: 1440	BATCH NO:	466324
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.0 ☐ 200.7 ☐ 3010A ☐ 3050B ☐ 3051 ☐ 6010C D155

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466324 [DIGM/28146]	992256	50	50	MB		HNO3 196224
2	QC ACCOUNT	LCS for HBN 466324 [DIGM/28146	992257			LCS		
3	4747	MA01MW001	21109280401			SAMPLE	Cold Extend	HCl 196245
4	4747	MA01MW003	21109280402			SAMPLE		
5	4747	MA01MW003-MS	21109280403			MS		H2O2
6	4747	MA01MW003-MSD	21109280404			MSD		
7	4747	MA02 MW001D	21109280407			SAMPLE		SOLID MATERIAL:
8	4747	FD-1	21109280408			FLDDUP		
9	4747	MWQ-23	21109280410			SAMPLE		
10	4747	MA01-MW004	21109280411			SAMPLE		
11	4747	MA01-MW002	21109280412	↓	↓	SAMPLE	↓	
12								
13								
14								
15								
16								
17								SPIKING SOLUTIONS (LCS/MS)
18								
19								GCALI-1 - 250uL 196116-1
20								
21								GCALI-2 - 250uL 196116-2
22								
23								ORGANOMETALLIC ICP SPIKE 0.025g
24								
25								
26								
27								
28								

COMMENTS:

BALANCE ID: _____ TEMP: 950

BLOCK ID	TECHNICIAN	DATE
AZ 33-8101	JC	9-30-11
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JC	[illegible]	10/7/11

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 12:40	End:	BATCH NO:	466325
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (mL) g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466325 [DIGM/28147]	992259	20	20	MB		HNO3 196-22-4
2	QC ACCOUNT	LCS for HBN 466325 [DIGM/28147	992260			LCS		
3	4747	MA01MW001	21109280401			SAMPLE		H2SO4 196-14-2
4	4747	MA01MW001	21109280401			SAMPLE	Field Filtered	
5	4747	MA01MW003	21109280402			SAMPLE		Aqua Regia
6	4747	MA01MW003	21109280402			SAMPLE	Field Filtered	
7	4747	MA01MW003-MS	21109280403			MS		KMNO4 196-21-8
8	4747	MA01MW003-MS	21109280403			MS	Field Filtered	
9	4747	MA01MW003-MSD	21109280404			MSD		K2S2O6 196-11-3
10	4747	MA01MW003-MSD	21109280404			MSD	Field Filtered	
11	4747	MA02 MW001D	21109280407			SAMPLE		Hg Calib ID
12	4747	MA02 MW001D	21109280407			SAMPLE	Field Filtered	
13	4747	FD-1	21109280408			FLDDUP		0.1 ppm CCV Working Solution
14	4747	FD-1	21109280408			FLDDUP	Field Filtered	
15	4747	MWQ-23	21109280410			SAMPLE		0.1 ppm ICV Working Solution
16	4747	MWQ-23	21109280410			SAMPLE	Field Filtered	
17	4747	MA01-MW004	21109280411			SAMPLE		Hg ICV
18	4747	MA01-MW004	21109280411			SAMPLE	Field Filtered	
19	4747	MA01-MW002	21109280412			SAMPLE		SPIKE SOLUTIONS (LCS/MS)
20	4747	MA01-MW002	21109280412			SAMPLE	Field Filtered	
21								Hg Spike 100uL 150uL 201-25-5
22								
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
AZ 33 B101	JCL	9-30-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JCL	bmc	10/7/11

BALANCE ID: _____ TEMP: 9.50

Revision 1, 08/10/2010

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	Start: 11:35	End: 13:35	BATCH NO:	466512
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐		METHOD:	245.2 ☐ 7470A ☑ 7471A ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	SAMPLE TYPE	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 466512 [DIGM/28167]	993103	20	20	MB		HNO3 196 22 4
2	QC ACCOUNT	LCS for HBN 466512 [DIGM/28167	993104			LCS		
3	4747	M114MW004	21110010501			SAMPLE		H2SO4 196 22 5
4	4747	M114MW004	21110010501			SAMPLE	Field Filtered	
5	4747	M114MW001	21110010502			SAMPLE		Aqua Regia
6	4747	M114MW001	21110010502			SAMPLE	Field Filtered	
7	4747	EB-1	21110010504			EQBK		KMN04 196 21 8
8	4747	EB-1	21110010504			EQBK	Field Filtered	
9	4747	M114MW002	21110010505			SAMPLE		K2S2O6 196 22.3
10	QC ACCOUNT	M114MW002(993041MS)	993105			MS		
11	QC ACCOUNT	M114MW002(993041MSD)	993106			MSD		Hg Calib ID
12	4747	M114MW002	21110010505			SAMPLE	Field Filtered	
13	4747	M114MW003	21110010506			SAMPLE		0.1 ppm CCV Working Solution
14	4747	M114MW003	21110010506	↓	↓	SAMPLE	Field Filtered	
15								0.1 ppm ICV Working Solution
16								
17								Hg ICV
18								
19								SPIKE SOLUTIONS (LCS/MS)
20								
21								Hg Spike 100uL / 150uL 201-2N-1
22								
23								ORGANOMETALLIC HG SPIKE 0.025g
24								
25								SOLID MATERIAL:
26								

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
AH 33 9-MH	JTC	10-A-11
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JTC	fomc	10/7/11

BALANCE ID: _____ TEMP: 95°

Revision 1. 08/10/2010

ICP Metals Water LOD's/LOQ's

Method	Analyte	Matrix	LOD (mg/L)	LOQ (mg/L)	Prep Method
SW846 6010B/C / EPA 200.7	Aluminum	W	0.09	0.20	3010A
SW846 6010B/C / EPA 200.7	Antimony	W	0.015	0.06	3010A
SW846 6010B/C / EPA 200.7	Arsenic	W	0.01	0.01	3010A
SW846 6010B/C / EPA 200.7	Barium	W	0.005	0.01	3010A
SW846 6010B/C / EPA 200.7	Beryllium	W	0.0003	0.01	3010A
SW846 6010B/C / EPA 200.7	Boron	W	0.1	1.00	3010A
SW846 6010B/C / EPA 200.7	Cadmium	W	0.0004	0.01	3010A
SW846 6010B/C / EPA 200.7	Calcium	W	0.09	0.10	3010A
SW846 6010B/C / EPA 200.7	Chromium	W	0.001	0.01	3010A
SW846 6010B/C / EPA 200.7	Cobalt	W	0.002	0.01	3010A
SW846 6010B/C / EPA 200.7	Copper	W	0.006	0.01	3010A
SW846 6010B/C / EPA 200.7	Iron	W	0.1	0.10	3010A
SW846 6010B/C / EPA 200.7	Lead	W	0.01	0.02	3010A
SW846 6010B/C / EPA 200.7	Magnesium	W	0.048	0.10	3010A
SW846 6010B/C / EPA 200.7	Manganese	W	0.003	0.02	3010A
SW846 6010B/C / EPA 200.7	Molybdenum	W	0.007	0.03	3010A
SW846 6010B/C / EPA 200.7	Nickel	W	0.003	0.04	3010A
SW846 6010B/C / EPA 200.7	Potassium	W	0.1	5.00	3010A
SW846 6010B/C / EPA 200.7	Selenium	W	0.015	0.04	3010A
SW846 6010B/C / EPA 200.7	Silver	W	0.0025	0.01	3010A
SW846 6010B/C / EPA 200.7	Sodium	W	0.2	1.00	3010A
SW846 6010B/C / EPA 200.7	Strontium	W	0.001	0.05	3010A
SW846 6010B/C / EPA 200.7	Thallium	W	0.01	0.02	3010A
SW846 6010B/C / EPA 200.7	Tin	W	0.02	0.03	3010A
SW846 6010B/C / EPA 200.7	Titanium	W	0.0026	0.10	3010A
SW846 6010B/C / EPA 200.7	Vanadium	W	0.0049	0.02	3010A
SW846 6010B/C / EPA 200.7	Zinc	W	0.02	0.02	3010A

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1990	10.0	10.0	mg/L

211092804 421

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:57	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.116	0.010	0.003	mg/L-N

211092804 422

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:53	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:17	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	525	50.0	10.5	mg/L
14808-79-8	Sulfate	564	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	172	1.0	0.34	mg/L CaCO3

211092804 425

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:13	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 426

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280401	MA01MW001	Water	09/27/2011 09:33	09/28/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:26	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1790	10.0	10.0	mg/L

211092804 428

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:58	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.085	0.010	0.003	mg/L-N

211092804 429

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:54	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:34	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	477	50.0	10.5	mg/L
14808-79-8	Sulfate	524	100	39.5	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	152	1.0	0.34	mg/L CaCO3

211092804 432

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:14	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280402	MA01MW003	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:28	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 15:59	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.558	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:56	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 18:52	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1690	50.0	10.5	mg/L
14808-79-8	Sulfate	3070	100	39.5	mg/L

211092804 437

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	469	10.0	3.30	ug/L

211092804 436

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280403	MA01MW003-MS	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:29	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0499	0.0050	0.0006	mg/L

211092804 439

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:01	AEL	466176

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.560	0.010	0.003	mg/L-N

211092804 440

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 16:57	AEL	466177

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.521	0.010	0.003	mg/L-N

211092804 441

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	10/05/2011 19:09	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1680	50.0	10.5	mg/L
14808-79-8	Sulfate	3040	100	39.5	mg/L

211092804 442

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/28/2011 10:16	JEM	466146

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	471	10.0	3.30	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280404	MA01MW003-MSD	Water	09/27/2011 12:21	09/28/2011 09:10

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:30	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0497	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	MA01MW003-DUP	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1740	10.0	10.0	mg/L

211092804 445

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280406	MA01MW003-DUP	Water	09/27/2011 12:21	09/28/2011 09:10

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	169	1.0	0.34	mg/L CaCO3

211092804 446

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5620	10.0	10.0	mg/L

211092804 447

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:46	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

211092804 446

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:34	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.035	0.010	0.003	mg/L-N

211092804 449

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:27	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1640	100	21.0	mg/L
14808-79-8	Sulfate	1860	200	79.0	mg/L

211092804 450

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	142	1.0	0.34	mg/L CaCO3

211092804 451

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:54	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 452

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280407	MA02 MW001D	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:31	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	5750	10.0	10.0	mg/L

211092804 454

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/29/2011 11:48	AEL	466216

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.71	0.050	0.013	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 12:35	AEL	466228

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.040	0.010	0.003	mg/L-N

211092804 456

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/05/2011 19:44	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	1620	100	21.0	mg/L
14808-79-8	Sulfate	1940	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 07:51	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	144	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/29/2011 11:55	JEM	466230

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	6.00B	10.0	3.30	ug/L

211092804 453

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280408	FD-1	Water	09/28/2011 10:28	09/29/2011 09:15

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:32	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006B	0.0050	0.0006	mg/L

211092804 460

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1310	10.0	10.0	mg/L

211092804 461

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:32	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.013	0.010	0.003	mg/L-N

211092804 462

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:40	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:02	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	212	20.0	4.20	mg/L
14808-79-8	Sulfate	396	40.0	15.8	mg/L

211092804 464

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	333	1.0	0.34	mg/L CaCO3

211092804 465

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:48	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 466

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280410	MWQ-23	Water	09/29/2011 08:40	09/30/2011 09:15

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:38	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211092804 467

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1130	10.0	10.0	mg/L

211092804 466

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:35	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.339	0.010	0.003	mg/L-N

211092804 463

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:44	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211092804 470

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 20:55	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	251	20.0	4.20	mg/L
14808-79-8	Sulfate	329	40.0	15.8	mg/L

211092804 471

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	200	1.0	0.34	mg/L CaCO3

211092804 472

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 473

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280411	MA01-MW004	Water	09/29/2011 11:10	09/30/2011 09:15

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:39	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 13:00	DJH	466317

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	1720	10.0	10.0	mg/L

211092804 475

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 18:37	AEL	466357

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.207	0.010	0.003	mg/L-N

211092804 476

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 17:45	AEL	466358

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211092804 477

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	10/05/2011 21:12	AEL	466617

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	431	20.0	4.20	mg/L
14808-79-8	Sulfate	514	40.0	15.8	mg/L

211092804 476

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 11:01	DJH	466313

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	180	1.0	0.34	mg/L CaCO3

211092804 479

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/30/2011 10:49	JEM	466295

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 480

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109280412	MA01-MW002	Water	09/29/2011 13:06	09/30/2011 09:15

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/01/2011 07:00	466327	SW-846 9012A	1	10/06/2011 10:40	AEL	466665

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9500	10.0	7.00	mg/L

211092804 482

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	10/01/2011 11:03	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.511	0.020	0.005	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:32	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 18:50	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
14808-79-8	Sulfate	1630	200	79.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2000	10/07/2011 09:26	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3970	200	42.0	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	59.3	1.0	0.34	mg/L CaCO3

211092804 487

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:53	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 466

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010501	M114MW004	Water	09/30/2011 10:00	10/01/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:06	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211092804 469

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 11:00	DJH	466415

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7640	10.0	7.00	mg/L

211092804 490

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 10:50	DJH	466374

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.899	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 11:36	DJH	466373

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211092804 432

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 19:42	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3060	100	21.0	mg/L
14808-79-8	Sulfate	1810	200	79.0	mg/L

211092804 433

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/03/2011 08:56	DJH	466422

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.4	1.0	0.34	mg/L CaCO3

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/01/2011 09:55	DJH	466385

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010502	M114MW001	Water	09/30/2011 12:36	10/01/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:08	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211092804 496

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7.00U	10.0	7.00	mg/L

211092804 497

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:48	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

211092804 498

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:33	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003U	0.010	0.003	mg/L-N

211092804 493

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/06/2011 20:35	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	**Chloride**	**0.104**	**0.100**	**0.021**	**mg/L**
14808-79-8	Sulfate	0.079U	0.200	0.079	mg/L

211092804 500

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:30	DJH	466580

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	0.34U	1.0	0.34	mg/L CaCO3

211092804 501

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 502

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010504	EB-1	Water	10/03/2011 08:00	10/04/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:11	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211092804 503

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	7610	10.0	7.00	mg/L

211092804 504

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 10:49	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.245	0.010	0.003	mg/L-N

211092804 505

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:35	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.003B	0.010	0.003	mg/L-N

211092804 505

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 20:53	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3130	100	21.0	mg/L
14808-79-8	Sulfate	1580	200	79.0	mg/L

211092804 507

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	79.8	1.0	0.34	mg/L CaCO3

211092804 508

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:11	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 503

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010505	M114MW002	Water	10/03/2011 09:32	10/04/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:12	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006U	0.0050	0.0006	mg/L

211092804 510

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 14:30	DJH	466542

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	Total Dissolved Solids(TDS)	9870	10.0	7.00	mg/L

211092804 511

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:04	DJH	466506

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.430	0.010	0.003	mg/L-N

211092804 512

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

EPA 353.2 Nitrite

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:41	AEL	466508

CAS#	Parameter	Result	RDL	MDL	Units
14797-65-0	Nitrite	0.005B	0.010	0.003	mg/L-N

211092604 513

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

EPA 300.0 Inorganic Anions

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	10/06/2011 21:45	AEL	466718

CAS#	Parameter	Result	RDL	MDL	Units
16887-00-6	Chloride	3920	100	21.0	mg/L
14808-79-8	Sulfate	1880	200	79.0	mg/L

211092804 514

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

SM 2320B Alkalinity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/05/2011 08:02	DJH	466579

CAS#	Parameter	Result	RDL	MDL	Units
000000-00-5	Total Alkalinity	53.5	1.0	0.34	mg/L CaCO3

211092804 515

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 7196A Chromium VI

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/04/2011 11:13	MDT	466501

CAS#	Parameter	Result	RDL	MDL	Units
18540-29-9	Chromium VI	3.30U	10.0	3.30	ug/L

211092804 516

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110010506	M114MW003	Water	10/03/2011 11:46	10/04/2011 09:00

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/04/2011 12:30	466523	SW-846 9012A	1	10/06/2011 10:15	AEL	466663

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0009B	0.0050	0.0006	mg/L

211092804 517

General Chemistry Quality Control Summary

Analytical Batch 466317	Client ID	MB466317			LCS466317		
Prep Batch N/A	GCAL ID	992213			992214		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 13:00			09/30/2011 13:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units** Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		10.0U	10.0	1000	926	92.6	80 - 120

Analytical Batch 466317	Client ID	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	GCAL ID	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units** Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		1790	10.0	1740	3.1	5

Analytical Batch 466317	Client ID	EEO-MW11-0911-GW01 (1)		EEO-QCSD-0911-GW01 DUP		
Prep Batch N/A	GCAL ID	21109290101		21109290105		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 13:00		09/30/2011 13:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units** Result	mg/L RDL	Result	RPD	RPD Limit
WET-035 Total Dissolved Solids(TDS)		3842	10.0	3890	1.1	5

Analytical Batch 466415	Client ID	MB466415			LCS466415		
Prep Batch N/A	GCAL ID	992706			992707		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/03/2011 11:00			10/03/2011 11:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units** Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
WET-035 Total Dissolved Solids(TDS)		7.00U	7.00	1000	970	97	80 - 120

Sample 211092804

General Chemistry Quality Control Summary

Analytical Batch 466415	Client ID	U43010B	992574DUP
Prep Batch N/A	GCAL ID	21110010401	992708
	Sample Type	SAMPLE	DUP
	Analytical Date	10/03/2011 11:00	10/03/2011 11:00
	Matrix	Water	Water

SM 2540C TDS		Units	mg/L	Result	RPD	RPD Limit
		Result	RDL			
WET-035	Total Dissolved Solids(TDS)	2494	7.00	2540	1.7	5

Analytical Batch 466542	Client ID	MB466542	LCS466542
Prep Batch N/A	GCAL ID	993230	993231
	Sample Type	Method Blank	LCS
	Analytical Date	10/04/2011 14:30	10/04/2011 14:30
	Matrix	Water	Water

SM 2540C TDS		Units	mg/L	Spike	Result	% R	Control
		Result	RDL	Added			Limits % R
WET-035	Total Dissolved Solids(TDS)	7.00U	7.00	1000	948	94.8	80 - 120

Analytical Batch 466542	Client ID	TK-470	993136DUP
Prep Batch N/A	GCAL ID	21110041701	993232
	Sample Type	SAMPLE	DUP
	Analytical Date	10/04/2011 14:30	10/04/2011 14:30
	Matrix	Water	Water

SM 2540C TDS		Units	mg/L	Result	RPD	RPD Limit
		Result	RDL			
WET-035	Total Dissolved Solids(TDS)	176	7.00	180	2.2	5

GCAL 1892804.12

General Chemistry Quality Control Summary

Analytical Batch 466176	Client ID	MB466176			LCS466176		
Prep Batch N/A	GCAL ID	991568			991569		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 15:54			09/28/2011 15:56		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units** Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.475	95	89.5 -110.5

Analytical Batch 466176	Client ID	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	GCAL ID	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 15:58			09/28/2011 15:59			09/28/2011 16:01			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units** Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.085	0.003	0.500	0.558	95	89.5 -110.5	0.560	95	0.3	25

Analytical Batch 466177	Client ID	MB466177			LCS466177		
Prep Batch N/A	GCAL ID	991574			991575		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/28/2011 16:51			09/28/2011 16:52		
	Matrix	Water			Water		
EPA 353.2 Nitrite		**Units** Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.003U	0.003	0.500	0.522	104	89.5 -110.5

Analytical Batch 466177	Client ID	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A	GCAL ID	21109280402			21109280403			21109280404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/28/2011 16:54			09/28/2011 16:56			09/28/2011 16:57			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite		**Units** Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-65-0 Nitrite		0.000	0.003	0.500	0.521	104	89.5 -110.5	0.521	104	0	25

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General Chemistry Quality Control Summary

Analytical Batch 466216	Client ID	MB466216			LCS466216		
Prep Batch N/A	GCAL ID	991777			991778		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 09:58			09/29/2011 09:59		
	Matrix	Water			Water		
EPA 353.2 Nitrate	Units	mg/L-N					
	Result	RDL	Spike Added	Result	% R	Control Limits % R	
14797-55-8 Nitrate	0.003U	0.003	0.500	0.487	97	89.5 -110.5	

Analytical Batch 466216	Client ID	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	GCAL ID	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:40			09/29/2011 11:41			09/29/2011 11:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate	Units	mg/L-N									
	Result	RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit	
14797-55-8 Nitrate	0.011	0.003	0.500	0.475	93	89.5 -110.5	0.476	93	0.3	25	

Analytical Batch 466228	Client ID	MB466228			LCS466228		
Prep Batch N/A	GCAL ID	991839			991840		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/29/2011 10:25			09/29/2011 10:26		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units	mg/L-N					
	Result	RDL	Spike Added	Result	% R	Control Limits % R	
14797-65-0 Nitrite	0.003U	0.003	0.500	0.523	105	89.5 -110.5	

Analytical Batch 466228	Client ID	SS01-DP24-092811			SS01-DP24MS-092811			SS01-DP24MSD-092811			
Prep Batch N/A	GCAL ID	21109290206			21109290207			21109290208			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/29/2011 11:59			09/29/2011 12:37			09/29/2011 12:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N									
	Result	RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit	
14797-65-0 Nitrite	0.001	0.003	0.500	0.526	105	89.5 -110.5	0.523	104	0.7	25	

General Chemistry Quality Control Summary

Analytical Batch 466357	Client ID	MB466357			LCS466357		
Prep Batch N/A	GCAL ID	992503			992504		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 18:29			09/30/2011 18:30		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003B	0.003	0.500	0.474	95	89.5 -110.5

Analytical Batch 466357	Client ID	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	GCAL ID	21109280410			992505			992506			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:32			09/30/2011 19:06			09/30/2011 19:07			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.013	0.003	0.500	0.517	101	89.5 -110.5	0.526	103	2	25

Analytical Batch 466357	Client ID	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	GCAL ID	21109301906			992507			992508			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 18:44			09/30/2011 19:08			09/30/2011 19:09			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.135	0.003	0.500	0.655	104	89.5 -110.5	0.656	104	0.2	25

Analytical Batch 466358	Client ID	MB466358			LCS466358		
Prep Batch N/A	GCAL ID	992509			992510		
	Sample Type	Method Blank			LCS		
	Analytical Date	09/30/2011 17:38			09/30/2011 17:39		
	Matrix	Water			Water		
EPA 353.2 Nitrite		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-65-0 Nitrite		0.003U	0.003	0.500	0.508	102	89.5 -110.5

General Chemistry Quality Control Summary

Analytical Batch 466358	Client ID	MWQ-23			992170MS			992170MSD			
Prep Batch N/A	GCAL ID	21109280410			992511			992512			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:40			09/30/2011 17:42			09/30/2011 17:43			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result	% R	Control	Result	% R	RPD	RPD
	Result	RDL	Added			Limits % R				Limit
14797-65-0 Nitrite	0.000	0.003	0.500	0.537	107	89.5 -110.5	0.535	107	0.4	25

Analytical Batch 466358	Client ID	SS01-DP58S-092911			992291MS			992291MSD			
Prep Batch N/A	GCAL ID	21109301906			992513			992514			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	09/30/2011 17:53			09/30/2011 17:54			09/30/2011 17:55			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result	% R	Control	Result	% R	RPD	RPD
	Result	RDL	Added			Limits % R				Limit
14797-65-0 Nitrite	0.006	0.003	0.500	0.555	110	89.5 -110.5	0.553	109	0.5	25

Analytical Batch 466373	Client ID	MB466373			LCS466373		
Prep Batch N/A	GCAL ID	992588			992589		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 11:28			10/01/2011 10:31		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result	% R	Control	
	Result	RDL	Added			Limits % R	
14797-65-0 Nitrite	0.003U	0.003	0.500	0.479	96	89.5 -110.5	

Analytical Batch 466373	Client ID	M114MW004			992585MS			992585MSD			
Prep Batch N/A	GCAL ID	21110010501			992590			992591			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:32			10/01/2011 10:33			10/01/2011 10:35			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N	Spike	Result	% R	Control	Result	% R	RPD	RPD
	Result	RDL	Added			Limits % R				Limit
14797-65-0 Nitrite	0.001	0.003	0.500	0.483	96	89.5 -110.5	0.483	96	0.06	25

General Chemistry Quality Control Summary

Analytical Batch 466374	Client ID	MB466374			LCS466374		
Prep Batch N/A	GCAL ID	992592			992593		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 10:43			10/01/2011 10:44		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.517	103	89.5 -110.5

Analytical Batch 466374	Client ID	M114MW004			992585MS			992585MSD			
Prep Batch N/A	GCAL ID	21110010501			992594			992595			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/01/2011 11:03			10/01/2011 11:04			10/01/2011 11:06			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.511	0.005	1.00	1.52	101	89.5 -110.5	1.54	102	0.9	25

Analytical Batch 466506	Client ID	MB466506			LCS466506		
Prep Batch N/A	GCAL ID	993074			993075		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 10:44			10/04/2011 10:45		
	Matrix	Water			Water		
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R
14797-55-8 Nitrate		0.003U	0.003	0.500	0.491	98	89.5 -110.5

Analytical Batch 466506	Client ID	M114MW002			993041MS			993041MSD			
Prep Batch N/A	GCAL ID	21110010505			993076			993077			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 10:49			10/04/2011 10:50			10/04/2011 10:52			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		Units Result	mg/L-N RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14797-55-8 Nitrate		0.245	0.003	0.500	0.612	73*	89.5 -110.5	0.615	74*	0.6	25

General Chemistry Quality Control Summary

Analytical Batch 466508	Client ID	MB466508			LCS466508		
Prep Batch N/A	GCAL ID	993081			993082		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:30			10/04/2011 11:48		
	Matrix	Water			Water		
EPA 353.2 Nitrite	Units	mg/L-N					
	Result	RDL	Spike Added	Result	% R	Control Limits % R	
14797-65-0 Nitrite	0.003U	0.003	0.500	0.502	100	89.5 -110.5	

Analytical Batch 466508	Client ID	M114MW002			993041MS			993041MSD			
Prep Batch N/A	GCAL ID	21110010505			993083			993084			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/04/2011 11:35			10/04/2011 11:36			10/04/2011 11:37			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrite	Units	mg/L-N									
	Result	RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit	
14797-65-0 Nitrite	0.003	0.003	0.500	0.500	99	89.5 -110.5	0.501	100	0.4	25	

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General Chemistry Quality Control Summary

Analytical Batch 466617 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MB466617 993797 Method Blank 10/05/2011 17:24 Water			LCS466617 993798 LCS 10/05/2011 17:41 Water		
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
16887-00-6	Chloride		0.021U	0.021	2.50	2.46	98.3	79 - 109
14808-79-8	Sulfate		0.079U	0.079	5.00	4.84	96.8	82 - 110

Analytical Batch 466617 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MA01MW003 21109280402 SAMPLE 10/05/2011 18:34 Water			MA01MW003-MS 21109280403 MS 10/05/2011 18:52 Water			MA01MW003-MSD 21109280404 MSD 10/05/2011 19:09 Water			
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride		477	10.5	1250	1690	97.3	79 - 109	1680	96.5	0.59	15
14808-79-8	Sulfate		524	39.5	2500	3070	102	82 - 110	3040	100	1.1	15

Analytical Batch 466718 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MB466718 994212 Method Blank 10/06/2011 18:14 Water			LCS466718 994213 LCS 10/06/2011 18:32 Water		
EPA 300.0 Inorganic Anions			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
16887-00-6	Chloride		0.027B	0.021	2.50	2.34	93.5	79 - 109
14808-79-8	Sulfate		0.079U	0.079	5.00	4.82	96.4	82 - 110

General Chemistry Quality Control Summary

Analytical Batch 466718	Client ID	M114MW004			992585MS			992585MSD			
Prep Batch N/A	GCAL ID	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/06/2011 18:50			10/06/2011 19:07			10/06/2011 19:25			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14808-79-8	Sulfate	1630	79.0	5000	6980	107	82 - 110	7020	108	0.55	15

Analytical Batch 466718	Client ID	M114MW004			992585MS			992585MSD			
Prep Batch N/A	GCAL ID	21110010501			994214			994215			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 09:26			10/07/2011 09:44			10/07/2011 10:01			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
16887-00-6	Chloride	3970	42.0	5000	9040	101	79 - 109	9090	102	0.59	15

Analytical Batch 466718	Client ID	MW-3			993524MS			993524MSD			
Prep Batch N/A	GCAL ID	21110051403			994216			994217			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/07/2011 10:36			10/07/2011 10:54			10/07/2011 11:12			
	Matrix	Water			Water			Water			
EPA 300.0 Inorganic Anions		Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
14808-79-8	Sulfate	18.9	0.395	25.0	46.2	109	82 - 110	46.3	109	0.012	15

General Chemistry Quality Control Summary

Analytical Batch 466313	Client ID	LCS466313			
Prep Batch N/A	GCAL ID	992178			
	Sample Type	LCS			
	Analytical Date	09/30/2011 07:51			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	211	106	80 - 120

Analytical Batch 466313	Client ID	MA01MW003		MA01MW003-DUP		
Prep Batch N/A	GCAL ID	21109280402		21109280406		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/30/2011 07:51		09/30/2011 07:51		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units Result**	**mg/L CaCO3 RDL**	**Result**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		151.53	0.34	169	11	11

Analytical Batch 466422	Client ID	LCS466422			
Prep Batch N/A	GCAL ID	992732			
	Sample Type	LCS			
	Analytical Date	10/03/2011 08:56			
	Matrix	Water			
SM 2320B Alkalinity		**Spike Added**	**Result**	**% R**	**Control Limits % R**
000000-00-5 Total Alkalinity		200	201	101	80 - 120

Analytical Batch 466422	Client ID	M114MW004		992585DUP		
Prep Batch N/A	GCAL ID	21110010501		992733		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/03/2011 08:56		10/03/2011 08:56		
	Matrix	Water		Water		
SM 2320B Alkalinity		**Units Result**	**mg/L CaCO3 RDL**	**Result**	**RPD**	**RPD Limit**
000000-00-5 Total Alkalinity		59.34	0.34	60.5	2	11

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General Chemistry Quality Control Summary

Analytical Batch 466579	Client ID	LCS466579				
Prep Batch N/A	GCAL ID	993418				
	Sample Type	LCS				
	Analytical Date	10/05/2011 08:02				
	Matrix	Water				
SM 2320B Alkalinity		Spike Added	Result	% R	Control Limits % R	
000000-00-5	Total Alkalinity	200	200	100	80 - 120	

Analytical Batch 466579	Client ID	TK-471		993140DUP			
Prep Batch N/A	GCAL ID	21110041702		993419			
	Sample Type	SAMPLE		DUP			
	Analytical Date	10/05/2011 08:02		10/05/2011 08:02			
	Matrix	Water		Water			
SM 2320B Alkalinity		Units Result	mg/L CaCO3 RDL	Result	RPD	RPD Limit	
000000-00-5	Total Alkalinity	991.84	0.34	994	0.2	11	

Analytical Batch 466580	Client ID	LCS466580				LCSD466580				
Prep Batch N/A	GCAL ID	993420				993422				
	Sample Type	LCS				LCSD				
	Analytical Date	10/05/2011 08:30				10/05/2011 08:30				
	Matrix	Water				Water				
SM 2320B Alkalinity		Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit	
000000-00-5	Total Alkalinity	10.0	10.0	100	80 - 120	9.9	99	1	11	

General Chemistry Quality Control Summary

Analytical Batch 466146		Client ID	MB466146			LCS466146		
Prep Batch N/A		GCAL ID	991369			991370		
		Sample Type	Method Blank			LCS		
		Analytical Date	09/28/2011 10:11			09/28/2011 10:11		
		Matrix	Water			Water		
SW-846 7196A Chromium VI			Units ug/L Result	RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI		3.30U	3.30	500	490	98	80 - 120

Analytical Batch 466146		Client ID	MA01MW003			MA01MW003-MS			MA01MW003-MSD			
Prep Batch N/A		GCAL ID	21109280402			21109280403			21109280404			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	09/28/2011 10:14			09/28/2011 10:16			09/28/2011 10:16			
		Matrix	Water			Water			Water			
SW-846 7196A Chromium VI			Units ug/L Result	RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
18540-29-9	Chromium VI		0.000	3.30	500	469	94	80 - 120	471	94	0.4	20

Analytical Batch 466230		Client ID	MB466230			LCS466230		
Prep Batch N/A		GCAL ID	991844			991845		
		Sample Type	Method Blank			LCS		
		Analytical Date	09/29/2011 11:52			09/29/2011 11:53		
		Matrix	Water			Water		
SW-846 7196A Chromium VI			Units ug/L Result	RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI		3.30U	3.30	500	500	100	80 - 120

Analytical Batch 466230		Client ID	MA02 MW001D			991841MS		
Prep Batch N/A		GCAL ID	21109280407			991847		
		Sample Type	SAMPLE			MS		
		Analytical Date	09/29/2011 11:54			09/29/2011 11:54		
		Matrix	Water			Water		
SW-846 7196A Chromium VI			Units ug/L Result	RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI		3.00	3.30	500	476	95	80 - 120

General Chemistry Quality Control Summary

Analytical Batch 466230			
Prep Batch N/A			
Client ID	MA02 MW001D	991841DUP	
GCAL ID	21109280407	991846	
Sample Type	SAMPLE	DUP	
Analytical Date	09/29/2011 11:54	09/29/2011 11:54	
Matrix	Water	Water	

SW-846 7196A Chromium VI		Units Result	ug/L RDL	Result	RPD	RPD Limit
18540-29-9	Chromium VI	3.00	3.30	1.00	**100***	25

Analytical Batch 466295			
Prep Batch N/A			
Client ID	MB466295	LCS466295	
GCAL ID	992102	992103	
Sample Type	Method Blank	LCS	
Analytical Date	09/30/2011 08:47	09/30/2011 08:47	
Matrix	Water	Water	

SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI	3.30U	3.30	500	499	100	80 - 120

Analytical Batch 466295			
Prep Batch N/A			
Client ID	005C	992023MS	
GCAL ID	21109293502	992105	
Sample Type	SAMPLE	MS	
Analytical Date	09/30/2011 08:56	09/30/2011 08:57	
Matrix	Water	Water	

SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9	Chromium VI	0.000	16.5	2500	2060	82	80 - 120

Analytical Batch 466295			
Prep Batch N/A			
Client ID	005C	992023DUP	
GCAL ID	21109293502	992104	
Sample Type	SAMPLE	DUP	
Analytical Date	09/30/2011 08:56	09/30/2011 08:56	
Matrix	Water	Water	

SW-846 7196A Chromium VI		Units Result	ug/L RDL	Result	RPD	RPD Limit
18540-29-9	Chromium VI	0.000	16.5	0.000	0	25

General Chemistry Quality Control Summary

Analytical Batch 466385	Client ID	MB466385			LCS466385		
Prep Batch N/A	GCAL ID	992631			992632		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/01/2011 09:51			10/01/2011 09:51		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		3.30U	3.30	500	501	100	80 - 120

Analytical Batch 466385	Client ID	M114MW004			992585MS		
Prep Batch N/A	GCAL ID	21110010501			992634		
	Sample Type	SAMPLE			MS		
	Analytical Date	10/01/2011 09:53			10/01/2011 09:54		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		0.000	3.30	500	485	97	80 - 120

Analytical Batch 466385	Client ID	M114MW004		992585DUP		
Prep Batch N/A	GCAL ID	21110010501		992633		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/01/2011 09:53		10/01/2011 09:53		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Result	RPD	RPD Limit
18540-29-9 Chromium VI		0.000	3.30	0.000	0	25

Analytical Batch 466501	Client ID	MB466501			LCS466501		
Prep Batch N/A	GCAL ID	993061			993062		
	Sample Type	Method Blank			LCS		
	Analytical Date	10/04/2011 11:10			10/04/2011 11:11		
	Matrix	Water			Water		
SW-846 7196A Chromium VI		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
18540-29-9 Chromium VI		3.30U	3.30	500	539	108	80 - 120

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General Chemistry Quality Control Summary

Analytical Batch 466501	Client ID	M114MW002		993041MS			
Prep Batch N/A	GCAL ID	21110010505		993063			
	Sample Type	SAMPLE		MS			
	Analytical Date	10/04/2011 11:11		10/04/2011 11:12			
	Matrix	Water		Water			
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	**Spike** Added	**Result**	**% R**	**Control** Limits % R
18540-29-9 Chromium VI		0.000	3.30	500	531	106	80 - 120

Analytical Batch 466501	Client ID	M114MW002		993041DUP		
Prep Batch N/A	GCAL ID	21110010505		993064		
	Sample Type	SAMPLE		DUP		
	Analytical Date	10/04/2011 11:11		10/04/2011 11:12		
	Matrix	Water		Water		
SW-846 7196A Chromium VI		**Units** Result	ug/L RDL	**Result**	**RPD**	**RPD** Limit
18540-29-9 Chromium VI		0.000	3.30	0.000	0	25

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General Chemistry Quality Control Summary

Analytical Batch	466663	Client ID	MB466523		LCS466523			
Prep Batch	466523	GCAL ID	993149		993150			
Prep Method	SW-846 9012A	Sample Type	Method Blank		LCS			
		Prep Date	10/04/2011 12:30		10/04/2011 12:30			
		Analytical Date	10/06/2011 10:03		10/06/2011 10:04			
		Matrix	Water		Water			
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
57-12-5	Total Cyanide		0.0006U	0.0006	0.0200	0.0182	91	80 - 120

Analytical Batch	466663	Client ID	MB466523		LCSHI466523			
Prep Batch	466523	GCAL ID	993149		993151			
Prep Method	SW-846 9012A	Sample Type	Method Blank		LCSHI			
		Prep Date	10/04/2011 12:30		10/04/2011 12:30			
		Analytical Date	10/06/2011 10:03		10/06/2011 10:05			
		Matrix	Water		Water			
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
57-12-5	Total Cyanide		0.0006U	0.0006	0.1000	0.0964	96	80 - 120

Analytical Batch	466663	Client ID	M114MW004		992585MS			
Prep Batch	466523	GCAL ID	21110010501		993152			
Prep Method	SW-846 9012A	Sample Type	SAMPLE		MS			
		Prep Date	10/04/2011 12:30		10/04/2011 12:30			
		Analytical Date	10/06/2011 10:06		10/06/2011 10:07			
		Matrix	Water		Water			
SW-846 9012A Cyanide			Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R
57-12-5	Total Cyanide		0.0000	0.0006	0.0500	0.0516	103	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466663	Client ID	M114MW001		992586DUP		
Prep Batch	466523	GCAL ID	21110010502		993153		
Prep Method	SW-846 9012A	Sample Type	SAMPLE		DUP		
		Prep Date	10/04/2011 12:30		10/04/2011 12:30		
		Analytical Date	10/06/2011 10:08		10/06/2011 10:09		
		Matrix	Water		Water		
SW-846 9012A Cyanide		Units / Result	mg/L / RDL		Result	RPD	RPD Limit
57-12-5	Total Cyanide	0.0000	0.0006		0.0000	0	25

Analytical Batch	466665	Client ID	MB466327			LCS466327		
Prep Batch	466327	GCAL ID	992272			992273		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCS		
		Prep Date	10/01/2011 07:00			10/01/2011 07:00		
		Analytical Date	10/06/2011 10:22			10/06/2011 10:23		
		Matrix	Water			Water		
SW-846 9012A Cyanide		Units / Result	mg/L / RDL	Spike Added		Result	% R	Control Limits % R
57-12-5	Total Cyanide	0.0006U	0.0006	0.0200		0.0183	92	80 - 120

Analytical Batch	466665	Client ID	MB466327			LCSHI466327		
Prep Batch	466327	GCAL ID	992272			992274		
Prep Method	SW-846 9012A	Sample Type	Method Blank			LCSHI		
		Prep Date	10/01/2011 07:00			10/01/2011 07:00		
		Analytical Date	10/06/2011 10:22			10/06/2011 10:24		
		Matrix	Water			Water		
SW-846 9012A Cyanide		Units / Result	mg/L / RDL	Spike Added		Result	% R	Control Limits % R
57-12-5	Total Cyanide	0.0006U	0.0006	0.1000		0.0969	97	80 - 120

General Chemistry Quality Control Summary

Analytical Batch	466665	Client ID	MA01MW003			MA01MW003-MS			MA01MW003-MSD		
Prep Batch	466327	GCAL ID	21109280402			21109280403			21109280404		
Prep Method	SW-846 9012A	Sample Type	SAMPLE			MS			MSD		
		Prep Date	10/01/2011 07:00			10/01/2011 07:00			10/01/2011 07:00		
		Analytical Date	10/06/2011 10:28			10/06/2011 10:29			10/06/2011 10:30		
		Matrix	Water			Water			Water		
SW-846 9012A Cyanide		Units	mg/L	Spike	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
		Result	RDL	Added							
57-12-5	Total Cyanide	0.0000	0.0006	0.0500	0.0499	100	80 - 120	0.0497	99	0.4	20

Analytical Batch	466665	Client ID	301-271			301-271 MS			301-271 MSD		
Prep Batch	466327	GCAL ID	21109292701			21109292703			21109292704		
Prep Method	SM 4500 CN E	Sample Type	SAMPLE			MS			MSD		
		Prep Date	10/01/2011 07:00			10/01/2011 07:00			10/01/2011 07:00		
		Analytical Date	10/06/2011 10:33			10/06/2011 10:34			10/06/2011 10:35		
		Matrix	Water			Water			Water		
SW-846 9012A Cyanide		Units	mg/L	Spike	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
		Result	RDL	Added							
57-12-5	Total Cyanide	0.0231	0.0006	0.0500	0.0756	105	80 - 120	0.0759	106	0.4	20

Analytical Batch	466665	Client ID	MA01MW001	991354DUP			
Prep Batch	466327	GCAL ID	21109280401	992275			
Prep Method	SW-846 9012A	Sample Type	SAMPLE	DUP			
		Prep Date	10/01/2011 07:00	10/01/2011 07:00			
		Analytical Date	10/06/2011 10:26	10/06/2011 10:27			
		Matrix	Water	Water			
SW-846 9012A Cyanide		Units	mg/L	Result	RPD	RPD Limit	
		Result	RDL				
57-12-5	Total Cyanide	0.0000	0.0006	0.0000	0	25	

gsc 1092504172

LACHAT STANDARD IDs

Analyst: AEL

Date: 9.28.11

HBN #: 466175 / 466176 / 466177

Batch #: 9908 / 9909 / 9910

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2110125
CCV Expiration Date	7-31-12
NO2 CCV Lot #	2110358
CCV Expiration Date	12-30-11
NO3 ICV/LCS Lot #	2110409
ICV Expiration Date	6-20-13
NO2 ICV/CCV Lot #	2110299
ICV Expiration Date	9-30-11
Ammonium Chloride Buffer	803-74-5
Sulfanilamide Color Reagent	803-76-2
HCl Concentrated	2110179
NH4OH Concentrated	052136
Sodium Thiosulfate 0.025N	2110136
N+N Calibration Date	7-27-11
N+N Calibration Expiration Date	7-27-12
NO2 Calibration Date	7-27-11
NO2 Calibration Expiration Date	12-30-11
Column Efficiency (90-110%)	98
LCS NO3 X 100 / LCS NO2	

Reviewed By: BMC 10/04/11

Author: AEL

Date : 09/28/2011

Original Run Filename: OM_09-28-2011_15-34-13.OMN created 09/28/2011 15:34:13
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-28-2011_15-34-13.OMN last modified 09/28/2011 16:28:52
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4941	09/28/2011@15:34:55		98
Known Conc:		0.5000			
1900	1	0.0004	09/28/2011@15:36:10		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
991559 BLK	1	0.0034	09/28/2011@15:37:25		
991560 LCS	1	0.4856	09/28/2011@15:38:40		97
LCS N02	1	0.4936	09/28/2011@15:39:56		98
21109280201	1	-0.0057	09/28/2011@15:41:10		
991561 MI	1	0.4659	09/28/2011@15:42:25		93
991562 MSD	1	0.4670	09/28/2011@15:43:39		93
21109280202	1	0.0057	09/28/2011@15:44:53		
21109280203	1	-0.0004	09/28/2011@15:46:08		
21109280204	1	-0.0039	09/28/2011@15:47:24		
21109280205	1	-0.0016	09/28/2011@15:48:38		
1800	1	0.4809	09/28/2011@15:49:52		96
Known Conc:		0.5000			
1900	1	0.0018	09/28/2011@15:51:06		
Known Conc:		0.0000			
21109280206	1	-0.0025	09/28/2011@15:52:20		
21109280207	1	0.0029	09/28/2011@15:53:35		
991568 BLK	1	0.0024	09/28/2011@15:54:53		
911569 LCS	1	0.4748	09/28/2011@15:56:08		95
21109280401	1	0.1156	09/28/2011@15:57:23		
21109280402	1	0.0845	09/28/2011@15:58:38		
21109280403 MS	1	0.5580	09/28/2011@15:59:53		95
21109280404 MSD	1	0.5595	09/28/2011@16:01:09		95
21109280303	1	-0.0036	09/28/2011@16:02:23		
21109280304	1	-0.0007	09/28/2011@16:03:38		
1800	1	0.4792	09/28/2011@16:04:53		96
Known Conc:		0.5000			
1900	1	0.0024	09/28/2011@16:06:07		
Known Conc:		0.0000			
21109280305	1	-0.0084	09/28/2011@16:07:22		
21109280306	1	-0.0056	09/28/2011@16:08:35		
21109280307	1	-0.0044	09/28/2011@16:09:51		
21109280308	1	-0.0060	09/28/2011@16:11:05		
21109280309	1	-0.0026	09/28/2011@16:12:21		
21109280310	1	-0.0066	09/28/2011@16:13:36		
21109280311	1	-0.0013	09/28/2011@16:14:51		
21109280312	1	-0.0002	09/28/2011@16:16:06		
991570 MI	1	0.4494	09/28/2011@16:17:21		90
991571 MSD	1	0.4491	09/28/2011@16:18:37		90
1800	1	0.4692	09/28/2011@16:19:52		94
Known Conc:		0.5000			
1900	1	0.0029	09/28/2011@16:21:06		
Known Conc:		0.0000			
21109280313	1	-0.0013	09/28/2011@16:22:21		
21109280501	1	-0.0121	09/28/2011@16:23:36		
21109280502	1	0.0045	09/28/2011@16:24:50		
1800	1	0.4645	09/28/2011@16:26:06		93
Known Conc:		0.5000			
1900	1	0.0045	09/28/2011@16:27:20		
Known Conc:		0.0000			

21109280A 536

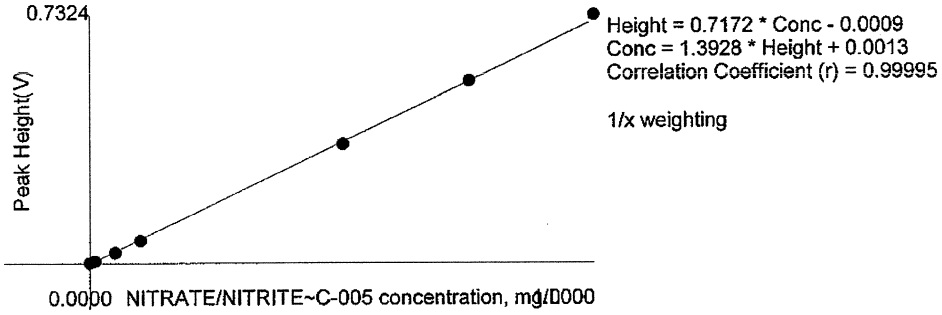
Author: AEL

Date : 09/28/2011

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



21092804 533

Author: AEL

Date : 09/28/2011

Original Run Filename: OM_09-28-2011_16-31-43.OMN created 09/28/2011 16:31:43
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-28-2011_16-31-43.OMN last modified 09/28/2011 17:24:39
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5110	09/28/2011@16:32:24		102
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0003	09/28/2011@16:33:40		
Known Conc:		0.0000			
991559 Blk	1	-0.0003	09/28/2011@16:34:55		
991560 Lcl	1	0.5145	09/28/2011@16:36:10		10
21109280201	1	0.0008	09/28/2011@16:37:25		
991561 mi	1	0.5304	09/28/2011@16:38:40		106
991562 mid	1	0.5323	09/28/2011@16:39:55		106
21109280202	1	0.0035	09/28/2011@16:41:09		
21109280203	1	0.0040	09/28/2011@16:42:24		
21109280204	1	0.0046	09/28/2011@16:43:39		
21109280205	1	0.0022	09/28/2011@16:44:53		
1800	1	0.5209	09/28/2011@16:46:07		104
Known Conc:		0.5000			
1900	1	-0.0016	09/28/2011@16:47:25		
Known Conc:		0.0000			
21109280206	1	0.0113	09/28/2011@16:48:39		
21109280207	1	-0.0054	09/28/2011@16:49:54		
991574 Blk	1	-0.0019	09/28/2011@16:51:10		
911575 Lcl	1	0.5215	09/28/2011@16:52:25		104
21109280401	1	-0.0050	09/28/2011@16:53:40		
21109280402	1	-0.0031	09/28/2011@16:54:55		
21109280403 mi	1	0.5210	09/28/2011@16:56:10		104
21109280404 mid	1	0.5210	09/28/2011@16:57:25		104
21109280303	1	0.0014	09/28/2011@16:58:40		
21109280304	1	0.0014	09/28/2011@16:59:54		
1800	1	0.5265	09/28/2011@17:01:08		105
Known Conc:		0.5000			
1900	1	-0.0106	09/28/2011@17:02:23		
Known Conc:		0.0000			
21109280305	1	0.0093	09/28/2011@17:03:38		
21109280306	1	-0.0019	09/28/2011@17:04:51		
21109280307	1	0.0019	09/28/2011@17:06:05		
21109280308	1	0.0009	09/28/2011@17:07:19		
21109280309	1	-0.0041	09/28/2011@17:08:35		
21109280310	1	-0.0102	09/28/2011@17:09:51		
21109280311	1	-0.0002	09/28/2011@17:11:06		
21109280312	1	-0.0017	09/28/2011@17:12:21		
991576 mi	1	0.5253	09/28/2011@17:13:36		105
991577 mid	1	0.5263	09/28/2011@17:14:51		105
1800	1	0.5225	09/28/2011@17:16:06		104
Known Conc:		0.5000			
1900	1	-0.0047	09/28/2011@17:17:21		
Known Conc:		0.0000			
21109280313	1	0.0013	09/28/2011@17:18:35		
21109280501	1	0.0185	09/28/2011@17:19:50		
21109280502	1	0.0151	09/28/2011@17:21:05		
1800	1	0.5221	09/28/2011@17:22:19		104
Known Conc:		0.5000			
1900	1	0.0006	09/28/2011@17:23:33		
Known Conc:		0.0000			

21109280 540

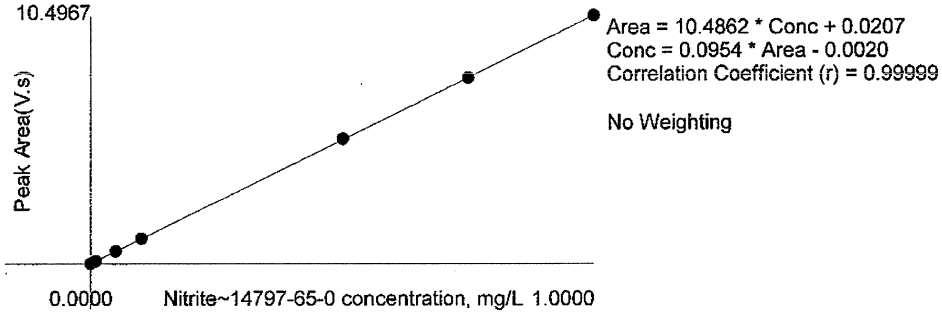
Author: AEL

Date : 09/28/2011

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



211092604 541

LACHAT STANDARD IDs

Analyst: AEZ

Date: 9-29-11

HBN #: 466216 / 466228

Batch #: 9911 / 9912

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2110125
CCV Expiration Date	7-31-12
NO2 CCV Lot #	2110358
CCV Expiration Date	12-30-11
NO3 ICV/LCS Lot #	2110409
ICV Expiration Date	6-30-13
NO2 ICV/CCV Lot #	2110299
ICV Expiration Date	9-30-11
Ammonium Chloride Buffer	803-74-5
Sulfanilamide Color Reagent	803-76-2
HCl Concentrated	2110174
NH4OH Concentrated	057136
Sodium Thiosulfate 0.025N	2110136
N+N Calibration Date	7-27-11
N+N Calibration Expiration Date	7-27-12
NO2 Calibration Date	7-27-11
NO2 Calibration Expiration Date	12-30-11
Column Efficiency (90-110%) LCS NO3 X 100 / LCS NO2	101

Reviewed By: Bmc 10/04/11

Author: AEL

Date : 09/29/2011

Original Run Filename: OM_09-29-2011_09-54-48.OMN created 09/29/2011 09:54:48
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-29-2011_09-54-48.OMN last modified 09/29/2011 10:20:42
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4899	09/29/2011@09:55:29		98
Known Conc:		0.5000			
1900	1	0.0015	09/29/2011@09:56:44		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
991777 BIH	1	0.0017	09/29/2011@09:58:00		
991778 LCS	1	0.4868	09/29/2011@09:59:14		97
LCS N02	1	0.4850	09/29/2011@10:00:29		97
21109290101	1	0.0016	09/29/2011@10:01:45		
21109290103 MS	1	0.4575	09/29/2011@10:03:00		
21109290104 MSD	1	0.4575	09/29/2011@10:04:14		
21109290102	1	0.0051	09/29/2011@10:05:29		
21109290106	1	0.0069	09/29/2011@10:06:43		
21109290107	1	0.0207	09/29/2011@10:07:58		
21109290108	1	0.0064	09/29/2011@10:09:12		
1800	1	0.4750	09/29/2011@10:10:26		95
Known Conc:		0.5000			
1900	1	0.0021	09/29/2011@10:11:40		
Known Conc:		0.0000			
21109290109	1	0.0060	09/29/2011@10:12:54		
21109290110	1	-0.0041	09/29/2011@10:14:09		
21109290111	1	0.0206	09/29/2011@10:15:25		
21109290112	1	0.0172	09/29/2011@10:16:40		
1800	1	0.4744	09/29/2011@10:17:55		95
Known Conc:		0.5000			
1900	1	0.0009	09/29/2011@10:19:10		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

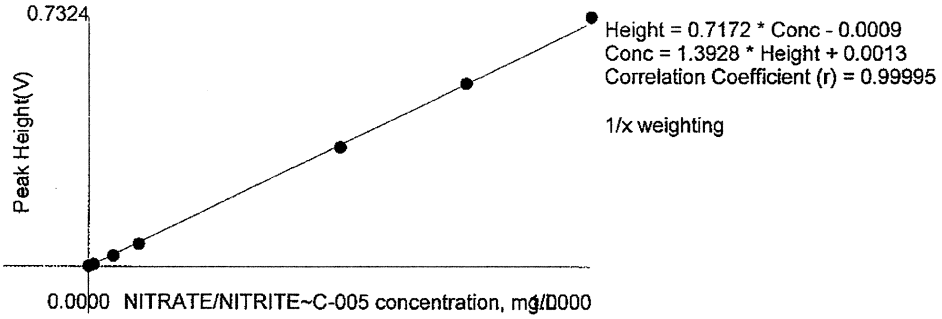
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

211092804 543

Author: AEL

Date : 09/29/2011

Figure 1: NITRATE/NITRITE~C-005



211092804 544

Author: AEL

Date : 09/29/2011

Original Run Filename: OM_09-29-2011_11-18-30.OMN created 09/29/2011 11:18:30
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-29-2011_11-18-30.OMN last modified 09/29/2011 11:52:14
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.5056	09/29/2011@11:19:11		101
Known Conc:		0.5000			
1900	1	0.0021	09/29/2011@11:20:27		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
21109290203	1	0.0004	09/29/2011@11:21:42		
21109290204	1	-0.0108	09/29/2011@11:22:57		
21109290205	1	-0.0104	09/29/2011@11:24:12		
21109290206	1	0.0145	09/29/2011@11:25:32		
21109290207 MS	1	0.4541	09/29/2011@11:26:47		RR
21109290208 MSD	1	0.4517	09/29/2011@11:28:02		
21109290209	1	-0.0041	09/29/2011@11:29:16		
21109290210	1	-0.0100	09/29/2011@11:30:31		
21109290211	1	-0.0112	09/29/2011@11:31:47		
21109290212	1	-0.0181	09/29/2011@11:33:02		
1800	1	0.4685	09/29/2011@11:34:16		94
Known Conc:		0.5000			
1900	1	0.0030	09/29/2011@11:35:30		
Known Conc:		0.0000			
21109290501	1	-0.0006	09/29/2011@11:36:48		
21109280407	1	1.9655	09/29/2011@11:38:06		RR
21109280408	1	1.9840	09/29/2011@11:39:22		RR
21109290206	1	0.0120	09/29/2011@11:40:37		
21109290207 MS	1	0.4756	09/29/2011@11:41:52		93
21109290208 MSD	1	0.4772	09/29/2011@11:43:07		93
1800	1	0.4716	09/29/2011@11:44:22		94
Known Conc:		0.5000			
1900	1	0.0016	09/29/2011@11:45:38		
Known Conc:		0.0000			
21109280407	1	1.7415	09/29/2011@11:46:53	5.00	
21109280408	1	1.7525	09/29/2011@11:48:09	5.00	
1800	1	0.4684	09/29/2011@11:49:25		94
Known Conc:		0.5000			
1900	1	0.0011	09/29/2011@11:50:42		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

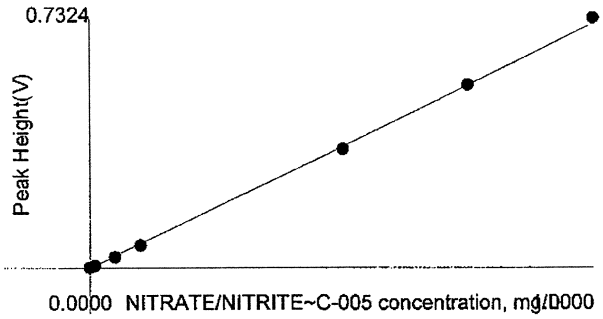
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

21109280604 545

Author: AEL

Date : 09/29/2011

Figure 1: NITRATE/NITRITE~C-005



Height = 0.7172 * Conc - 0.0009
Conc = 1.3928 * Height + 0.0013
Correlation Coefficient (r) = 0.99995

1/x weighting

211032604 546

Author: AEL

Date : 09/29/2011

Original Run Filename: OM_09-29-2011_10-22-12.OMN created 09/29/2011 10:22:12
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-29-2011_10-22-12.OMN last modified 09/29/2011 10:46:29
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5215	09/29/2011@10:22:54		104
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0030	09/29/2011@10:24:10		
Known Conc:		0.0000			
991777 BH	1	-0.0011	09/29/2011@10:25:25		
991778 CB	1	0.5229	09/29/2011@10:26:40		104
21109290101	1	0.0003	09/29/2011@10:27:55		
21109290103 MS	1	0.5281	09/29/2011@10:29:10		106
21109290104 MSD	1	0.5276	09/29/2011@10:30:25		105
21109290102	1	0.0086	09/29/2011@10:31:40		
21109290106	1	0.0022	09/29/2011@10:32:54		
21109290107	1	0.0033	09/29/2011@10:34:09		
21109290108	1	0.0070	09/29/2011@10:35:24		
1800	1	0.5225	09/29/2011@10:36:38		105
Known Conc:		0.5000			
1900	1	-0.0017	09/29/2011@10:37:52		
Known Conc:		0.0000			
21109290109	1	0.0022	09/29/2011@10:39:06		
21109290110	1	0.0031	09/29/2011@10:40:22		
21109290111	1	0.0024	09/29/2011@10:41:38		
21109290112	1	0.0016	09/29/2011@10:42:52		
1800	1	0.5250	09/29/2011@10:44:08		105
Known Conc:		0.5000			
1900	1	-0.0030	09/29/2011@10:45:23		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

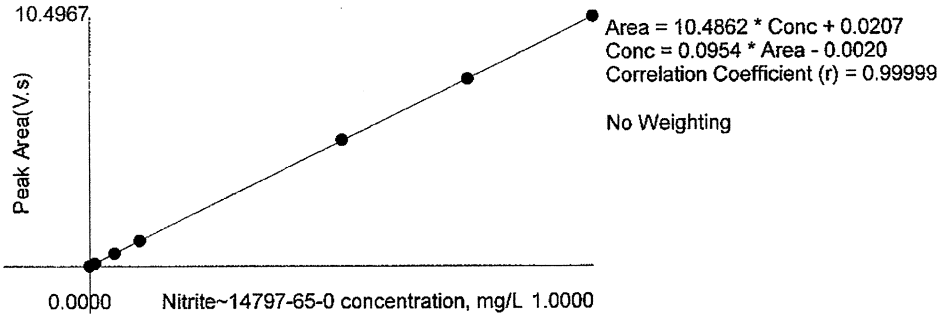
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

211092804 547

Author: AEL

Date : 09/29/2011

Figure 1: Nitrite~14797-65-0



211092804 546

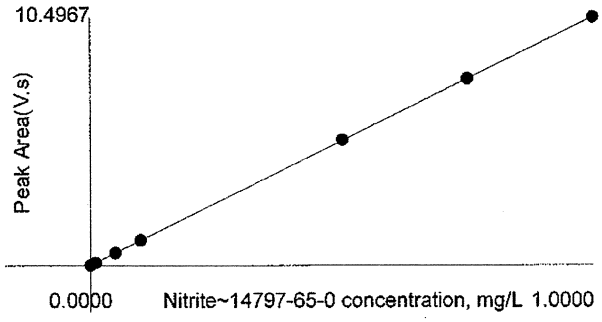
Original Run Filename: OM_09-29-2011_11-52-22.OMN created 09/29/2011 11:52:22
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-29-2011_11-52-22.OMN last modified 09/29/2011 12:09:28
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF
1800	1	0.5171	09/29/2011@11:53:05	
Known Conc:		0.5000		
1900	1	-0.0038	09/29/2011@11:54:20	
Known Conc:		0.0000		
Calibration:		Table/Fig. 1		
21109290203	1	0.0096	09/29/2011@11:55:35	
21109290204	1	0.0057	09/29/2011@11:56:51	
21109290205	1	0.0027	09/29/2011@11:58:06	
21109290206	1	0.0010	09/29/2011@11:59:21	
21109290207	1	0.5579	09/29/2011@12:00:37	
21109290208	1	0.5580	09/29/2011@12:01:52	
21109290209	1	-0.0046	09/29/2011@12:03:07	
21109290210	1	0.0026	09/29/2011@12:04:21	
21109290211	1	-0.0039	09/29/2011@12:05:36	
21109290212	1	0.0037	09/29/2011@12:06:50	
1800	1	0.4842	09/29/2011@12:08:04	
Known Conc:		0.5000		

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



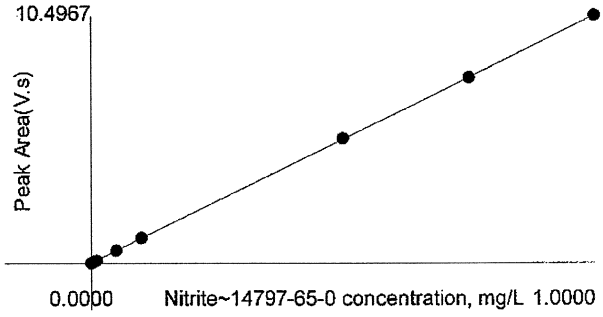
Original Run Filename: OM_09-29-2011_12-30-10.OMN created 09/29/2011 12:30:10
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-29-2011_12-30-10.OMN last modified 09/29/2011 12:41:55
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5264	09/29/2011@12:30:49		103
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0021	09/29/2011@12:32:03		
Known Conc:		0.0000			
21109290501	1	0.0085	09/29/2011@12:33:17		
21109280407	1	0.0345	09/29/2011@12:34:33		
21109280408	1	0.0397	09/29/2011@12:35:49		
21109290207 MS	1	0.5264	09/29/2011@12:37:04		103
21109290208 MSD	1	0.5229	09/29/2011@12:38:19		104
1800	1	0.5272	09/29/2011@12:39:34		105
Known Conc:		0.5000			
1900	1	-0.0027	09/29/2011@12:40:49		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



211092604 550

LACHAT STANDARD IDs

Analyst: AEC

Date: 9-30-11

HBN #: 466302 / 466357 / 466358

Batch #: 9916 / 9917 / 9918

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2110125
CCV Expiration Date	7-21-12
NO2 CCV Lot #	2110358
CCV Expiration Date	12-30-11
NO3 ICV/LCS Lot #	2110409
ICV Expiration Date	6-20-13
NO2 ICV/CCV Lot #	2110299
ICV Expiration Date	9-30-11
Ammonium Chloride Buffer	803-74-5
Sulfanilamide Color Reagent	803-76-2
HCl Concentrated	2110174
NH4OH Concentrated	057126
Sodium Thiosulfate 0.025N	2110136
N+N Calibration Date	7-27-11
N+N Calibration Expiration Date	7-27-12
NO2 Calibration Date	7-27-11
NO2 Calibration Expiration Date	12-30-11
Column Efficiency (90-110%)	101
LCS NO3 X 100 / LCS NO2	

Reviewed By: BMC 10/05/11

Author: AEL

Date : 09/30/2011

Original Run Filename: OM_09-30-2011_18-26-27.OMN created 09/30/2011 18:26:27
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-30-2011_18-26-27.OMN last modified 09/30/2011 19:00:56
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4868	09/30/2011@18:27:08		97
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0010	09/30/2011@18:28:24		
Known Conc:		0.0000			
992503 BLK	1	0.0027	09/30/2011@18:29:39		
992504 LCS	1	0.4744	09/30/2011@18:30:54		95
21109280410	1	0.0125	09/30/2011@18:32:09		
992505 MS	1	0.4597	09/30/2011@18:33:24		RR spiked at 40 ml
992506 MSD	1	0.4577	09/30/2011@18:34:39		
21109280411	1	0.3385	09/30/2011@18:35:53		
21109280412	1	0.2069	09/30/2011@18:37:08		
21109301903	1	0.3351	09/30/2011@18:38:23		
21109301904	1	-0.0132	09/30/2011@18:39:40		
21109301905	1	0.1367	09/30/2011@18:40:54		
1800	1	0.4842	09/30/2011@18:42:08		96
Known Conc:		0.5000			
1900	1	-0.0078	09/30/2011@18:43:22		
Known Conc:		0.0000			
21109301906	1	0.1401	09/30/2011@18:44:36		
992507 MS	1	0.5743	09/30/2011@18:45:52		RR spiked 40 ml
992508 MSD	1	0.5745	09/30/2011@18:47:08		
21109304301	1	-0.0039	09/30/2011@18:48:23		
21109304302	1	-0.0073	09/30/2011@18:49:38		
21109304303	1	0.0131	09/30/2011@18:50:53		
21109304304	1	0.0083	09/30/2011@18:52:08		
21109304305	1	-0.0133	09/30/2011@18:53:24		
21109304306	1	-0.0077	09/30/2011@18:54:38		
21109304307	1	-0.0010	09/30/2011@18:55:54		
1800	1	0.4726	09/30/2011@18:57:08		94
Known Conc:		0.5000			
1900	1	0.0154	09/30/2011@18:58:23		RR
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

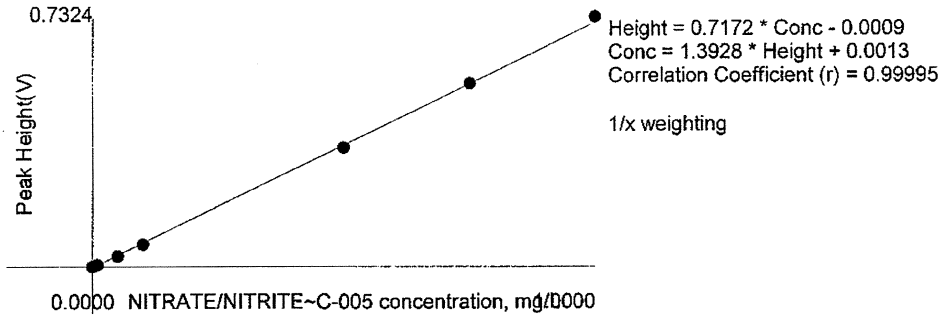
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

211092604 552

Author: AEL

Date : 09/30/2011

Figure 1: NITRATE/NITRITE~C-005



211092804 553

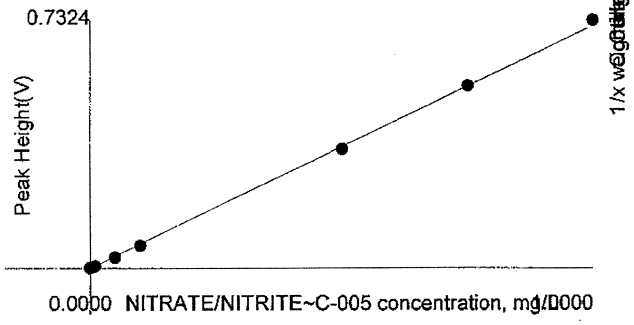
Original Run Filename: OM_09-30-2011_19-01-39.OMN created 09/30/2011 19:01:39
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-30-2011_19-01-39.OMN last modified 09/30/2011 19:13:49
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF	
1800	1	0.4797	09/30/2011@19:02:19		96
Known Conc:		0.5000			
1900	1	-0.0029	09/30/2011@19:03:33		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
21109304308	1	-0.0035	09/30/2011@19:04:47		
992505 MS	1	0.5174	09/30/2011@19:06:02		101
992506 MSD	1	0.5262	09/30/2011@19:07:17		105
992507 MS	1	0.6602	09/30/2011@19:08:33		104
992508 MSD	1	0.6616	09/30/2011@19:09:49		101
1800	1	0.4815	09/30/2011@19:11:03		96
Known Conc:		0.5000			
1900	1	-0.0018	09/30/2011@19:12:17		
Known Conc:		0.0000			

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



Author: AEL

Date : 09/30/2011

Original Run Filename: OM_09-30-2011_17-35-16.OMN created 09/30/2011 17:35:16
Original Run Author's Signature: [AEL]
Current Run Filename: OM_09-30-2011_17-35-16.OMN last modified 09/30/2011 18:12:00
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF	
1800	1	0.5031	09/30/2011@17:35:58		101
Known Conc:		0.5000			
1900	1	-0.0005	09/30/2011@17:37:14		
Known Conc:		0.0000			
Calibration:		Table/Fig. 1			
992509 Blk	1	-0.0031	09/30/2011@17:38:29		
992510 LCL	1	0.5082	09/30/2011@17:39:44		102
21109280410	1	-0.0035	09/30/2011@17:40:59		
992511 MS	1	0.5365	09/30/2011@17:42:14		107
992512 MSD	1	0.5345	09/30/2011@17:43:29		107
21109280411	1	-0.0015	09/30/2011@17:44:44		
21109280412	1	-0.0039	09/30/2011@17:45:58		
21109301903	1	0.0122	09/30/2011@17:47:13		
21109301904	1	-0.0041	09/30/2011@17:48:28		
21109301905	1	0.1003	09/30/2011@17:49:43		
1800	1	0.5082	09/30/2011@17:50:57		102
Known Conc:		100.0000			
1900	1	-0.0054	09/30/2011@17:52:11		
Known Conc:		100.0000			
21109301906	1	0.0056	09/30/2011@17:53:25		
992513 MS	1	0.5550	09/30/2011@17:54:40		110
992514 MSD	1	0.5525	09/30/2011@17:55:56		109
21109304301	1	-0.0054	09/30/2011@17:57:11		
21109304302	1	0.0015	09/30/2011@17:58:26		
21109304303	1	-0.0044	09/30/2011@17:59:42		
21109304304	1	0.0015	09/30/2011@18:00:57		
21109304305	1	0.0094	09/30/2011@18:02:12		
21109304306	1	0.0034	09/30/2011@18:03:26		
21109304307	1	0.0016	09/30/2011@18:04:41		
1800	1	0.5111	09/30/2011@18:05:56		102
Known Conc:		100.0000			
1900	1	-0.0027	09/30/2011@18:07:10		
Known Conc:		100.0000			
21109304308	1	0.0053	09/30/2011@18:08:25		
1800	1	0.5071	09/30/2011@18:09:39		101
Known Conc:		0.5000			
1900	1	-0.0019	09/30/2011@18:10:53		
Known Conc:		0.0000			

Table 1: Nitrite~14797-65-0

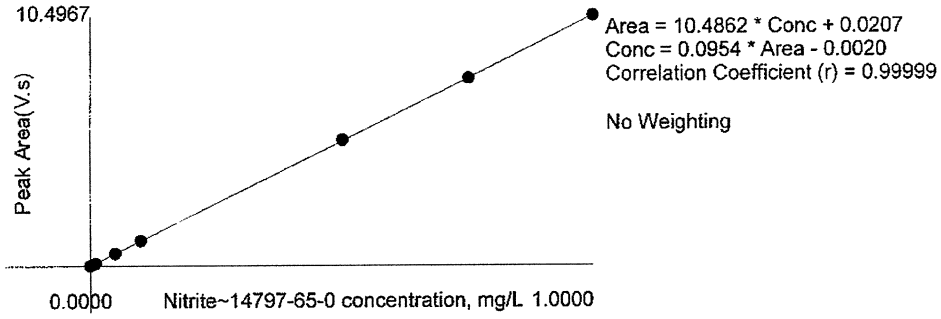
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

21109280604 555

Author: AEL

Date : 09/30/2011

Figure 1: Nitrite~14797-65-0



211032604 556

LACHAT STANDARD IDs

Analyst: DJH
Date: 10/1/11
HBN #: 466374 466373
Batch #: 9920 9919

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2110125
CCV Expiration Date	7-31-12
NO2 CCV Lot #	2110358
CCV Expiration Date	12-30-11
NO3 ICV/LCS Lot #	2110409
ICV Expiration Date	6-20-13
NO2 ICV/CCV Lot #	~~2110299~~ 2110501
ICV Expiration Date	~~7-30-11~~ 12/30/11
Ammonium Chloride Buffer	803-74-5
Sulfanilamide Color Reagent	803-76-2
HCl Concentrated	2110174
NH4OH Concentrated	053136
Sodium Thiosulfate 0.025N	2110136
N+N Calibration Date	7-27-11
N+N Calibration Expiration Date	7-27-12
NO2 Calibration Date	7-27-11
NO2 Calibration Expiration Date	12-30-11
Column Efficiency (90-110%)	98%
LCS NO3 X 100 / LCS NO2	.5771 / .5289

DJH 10/1/11

Reviewed By: BMC 10/6/11

Original Run Filename: OM_10-01-2011_10-39-51.OMN created 10/01/2011 10:39:51
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-01-2011_10-39-51.OMN last modified 10/01/2011 10:54:36
Current Run Author's Signature: [AEL]
Description: Default New Run

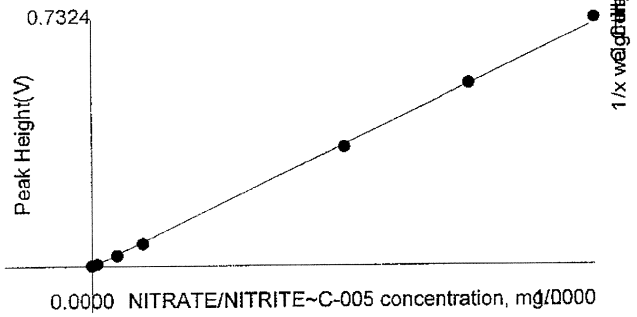
Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
1800	1	0.5391	6.3842	10/01/2011@10:40:33		108%
Known Conc:		0.5000				
Calibration:		Table/Fig. 1				
1900	1	-0.0018	-0.0773	10/01/2011@10:41:48		
Known Conc:		0.0000				
992592 MD	1	-0.0032	-0.0859	10/01/2011@10:43:03		
992593 LCS	1	0.5171	6.2334	10/01/2011@10:44:18		103%
LCS NO2	1	0.5289	6.4154	10/01/2011@10:45:33		106%
21110010501	1	0.6375	8.1123	10/01/2011@10:46:48		
992594 MS	1	1.7011	21.1328	10/01/2011@10:48:03		
992595 MSD	1	1.7226	21.1658	10/01/2011@10:49:18		
21110010502	1	0.8988	11.0972	10/01/2011@10:50:33		
1800	1	0.5380	6.4395	10/01/2011@10:51:48		108%
Known Conc:		0.5000				
1900	1	-0.0018	-0.0191	10/01/2011@10:53:04		
Known Conc:		0.0000				

RR 2Y

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



211092804 556

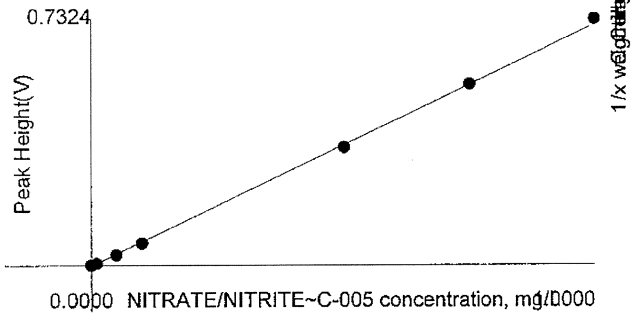
Original Run Filename: OM_10-01-2011_11-00-26.OMN created 10/01/2011 11:00:26
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-01-2011_11-00-26.OMN last modified 10/01/2011 11:10:12
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005		Detection Time	MDF	
		Conc. (mg/L)	Area (Vs)			
1800	1	0.5294	6.2603	10/01/2011@11:01:07		106%
Known Conc:		0.5000				
1900	1	-0.0035	-0.0994	10/01/2011@11:02:22		
Known Conc:		0.0000				
Calibration:		Table/Fig. 1				
21110010501	1	0.5124	3.1522	10/01/2011@11:03:38	2.00	101%
992594 MS	1	1.5230	9.1287	10/01/2011@11:04:54	2.00	102%
992595 MSD	1	1.5373	9.2044	10/01/2011@11:06:09	2.00	106%
1800	1	0.5324	6.2882	10/01/2011@11:07:25		
Known Conc:		0.5000				
1900	1	-0.0007	-0.0428	10/01/2011@11:08:40		
Known Conc:		0.0000				

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



211092804 559

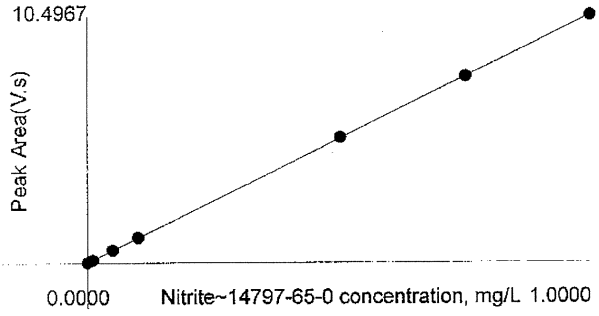
Original Run Filename: OM_10-01-2011_11-25-27.OMN created 10/01/2011 11:25:27
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-01-2011_11-25-27.OMN last modified 10/01/2011 11:39:46
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
1800	1	0.4952	5.2130	10/01/2011@11:26:08		99%
Known Conc:		0.5000				
1900	1	-0.0018	0.0017	10/01/2011@11:27:24		
Known Conc:		0.0000				
Calibration:		Table/Fig. 1				
992588 MB	1	-0.0031	-0.0120	10/01/2011@11:28:39		
LCS N03	1	-0.0012	0.0076	10/01/2011@11:29:54		96%
992589 LCS	1	0.4785	5.0385	10/01/2011@11:31:09		
21110010501	1	0.0013	0.0346	10/01/2011@11:32:24		
992590 MS	1	0.4826	5.0818	10/01/2011@11:33:39		96%
992591 MSD	1	0.4829	5.0844	10/01/2011@11:34:54		96%
21110010502	1	0.0017	0.0383	10/01/2011@11:36:09		
1800	1	0.4977	5.2398	10/01/2011@11:37:24		100%
Known Conc:		100.0000				
1900	1	-0.0030	-0.0112	10/01/2011@11:38:40		
Known Conc:		100.0000				

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



21092604 560

LACHAT STANDARD IDs

Analyst: DJH

Date: 10/4/11

HBN #: 466506 466508

Batch #: 9924 9925

CHLORIDE SM4500 Cl-E /9251

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
0.5M Ferric Nitrate Lot #	
Mercuric Thiocyanate Lot #	
Calibration Date	
Calibration Expiration Date	

PHENOLICS 420.4/9066

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phenol Buffer Lot #	
4-Aminoantipyrine Lot #	
Calibration Date	
Calibration Expiration Date	

TOTAL PHOSPHORUS 365.1

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Ascorbic Acid Lot #	
0.11N H2SO4 Lot #	
Molybdate Color Lot #	
Calibration Date	
Calibration Expiration Date	

CYANIDE 335.4/9012A

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Phosphate Buffer Lot #	
Pyridine-Barbituric Acid Lot #	
Chloramine T Lot #	
0.25N NaOH Lot #	
Calibration Date	
Calibration Expiration Date	

N+N/NITRATE/NITRITE 353.2

NO3 CCV Lot #	2110125
CCV Expiration Date	7-31-12
NO2 CCV Lot #	2110358
CCV Expiration Date	12-30-11
NO3 ICV/LCS Lot #	2110409
ICV Expiration Date	6-20-13
NO2 ICV/CCV Lot #	DJH ~~2110299~~ 2110501
ICV Expiration Date	10/4/11 ~~7-30-11~~ 12/30/11
Ammonium Chloride Buffer	803-74-5
Sulfanilamide Color Reagent	803-76-2
HCl Concentrated	2110129
NH4OH Concentrated	057136
Sodium Thiosulfate 0.025N	2110136
N+N Calibration Date	7-27-11
N+N Calibration Expiration Date	7-27-12
NO2 Calibration Date	7-27-11
NO2 Calibration Expiration Date	12-30-11
Column Efficiency (90-110%)	103%
LCS NO3 X 100 / LCS NO2	.4906 / .4749

Reviewed By: BMC 10/6/11

Author: AEL

Date : 10/04/2011

Original Run Filename: OM_10-04-2011_10-41-23.OMN created 10/04/2011 10:41:23
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_10-41-23.OMN last modified 10/04/2011 11:12:21
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 Conc. (mg/L)	Area (Vs)	Detection Time	MDF	
1800	1	0.4961	4.6364	10/04/2011@10:42:04		99%
Known Conc:		0.5000				
Calibration:		Table/Fig. 1				
1900	1	-0.0039	-0.0721	10/04/2011@10:43:19		
Known Conc:		0.0000				
993074 MB	1	-0.0034	-0.0563	10/04/2011@10:44:35		
993075 LCS	1	0.4906	4.6075	10/04/2011@10:45:50		98%
LCS NO2	1	0.4749	4.3011	10/04/2011@10:47:05		95%
21110010504	1	-0.0017	-0.0346	10/04/2011@10:48:20		
21110010505	1	0.2482	2.4686	10/04/2011@10:49:36		
993076 MS	1	0.6144	5.7051	10/04/2011@10:50:50		73%
993077 MSD	1	0.6180	5.7337	10/04/2011@10:52:05		74%
RR 21110032601	1	8.6397	102.4007	10/04/2011@10:53:20		
21110032602	1	0.2391	2.2952	10/04/2011@10:54:35		
21110010506	1	0.4683	4.6632	10/04/2011@10:55:49		
1800	1	0.5335	5.1627	10/04/2011@10:57:04		
Known Conc:		0.5000				
1900	1	-0.0048	-0.0855	10/04/2011@10:58:20		
Known Conc:		0.0000				
993076 MS	1	0.6115	6.0506	10/04/2011@10:59:34		
993077 MSD	1	0.6085	5.8800	10/04/2011@11:00:49		
RR 21110032601	1	12.1263	11.7158	10/04/2011@11:02:04	10.00	
21110032602	1	0.2317	2.4227	10/04/2011@11:03:19		
21110010506	1	0.4345	4.3762	10/04/2011@11:04:32		
1800	1	0.5429	5.2566	10/04/2011@11:05:48		109%
Known Conc:		0.5000				
1900	1	-0.0041	-0.1165	10/04/2011@11:07:04		
Known Conc:		0.0000				
RR 21110032601	1	10.3617	4.9939	10/04/2011@11:08:18	20.00	108%
1800	1	0.5413	5.3078	10/04/2011@11:09:33		
Known Conc:		0.5000				
1900	1	0.0213	0.3358	10/04/2011@11:10:49		vial was empty DJH 10/4/11
Known Conc:		0.0000				

Table 1: NITRATE/NITRITE~C-005

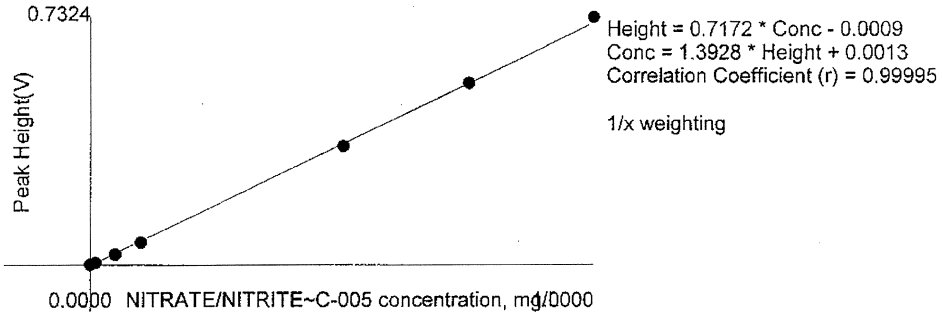
	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

21109260A 562

Author: AEL

Date : 10/04/2011

Figure 1: NITRATE/NITRITE~C-005



21092604 563

Author: AEI

Date : 10/0

Original Run Filename: OM_10-04-2011_11-18-24.OMN created 10/04/2011 11:18:24
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_11-18-24.OMN last modified 10/04/2011 11:25:36
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005		Detection Time	MDF
		Conc. (mg/L)	Area (Vs)		
1800	1	0.4558	4.5417	10/04/2011@11:19:05	
Known Conc:		0.5000			
Calibration:		Table/Fig. 1			
1900	1	-0.0004	0.0000	10/04/2011@11:20:20	
Known Conc:		0.0000			
21110032601	1	11.0769	5.5977	10/04/2011@11:21:34	20.00
1800	1	0.4567	4.5871	10/04/2011@11:22:49	
Known Conc:		0.5000			
1900	1	-0.0158	-0.2454	10/04/2011@11:24:05	
Known Conc:		0.0000			

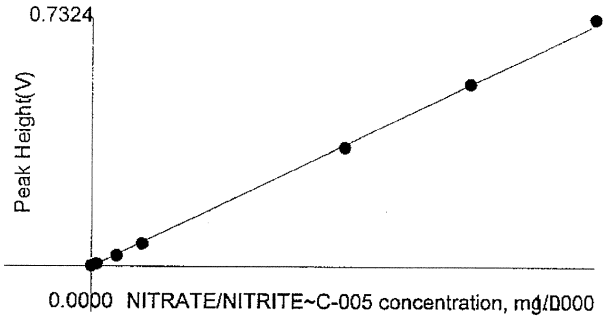
91%

91%

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



211092604 564

Original Run Filename: OM_10-04-2011_12-03-06.OMN created 10/04/2011 12:03:06
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_12-03-06.OMN last modified 10/04/2011 12:10:21
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF
1800	1	0.4875	10/04/2011@12:03:47	
Known Conc:		0.5000		
1900	1	-0.0036	10/04/2011@12:05:03	
Known Conc:		0.0000		
Calibration:		Table/Fig. 1		
21110042001	1	16.4975	10/04/2011@12:06:18	50.00
1800	1	0.5030	10/04/2011@12:07:33	
Known Conc:		0.5000		
1900	1	0.0527	10/04/2011@12:08:49	
Known Conc:		0.0000		

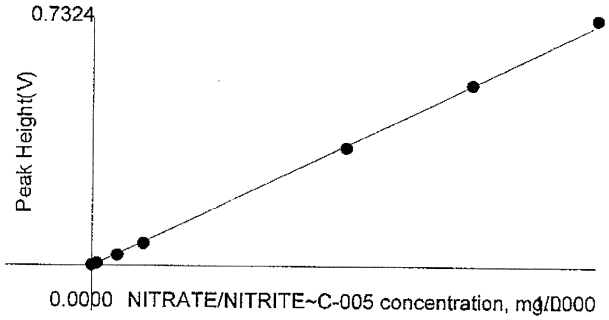
98%

101%

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



21103804 565

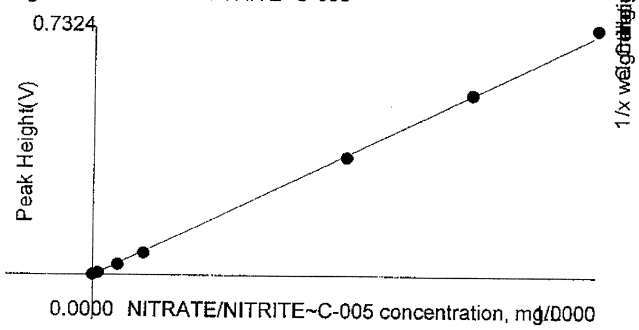
Original Run Filename: OM_10-04-2011_12-10-40.OMN created 10/04/2011 12:10:40
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_12-10-40.OMN last modified 10/04/2011 12:12:52
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 NITRATE/NITRITE~C-005 (mg/L)	Detection Time	MDF
1900	1	-0.0028	10/04/2011@12:11:21	
Known Conc:		0.0000		
Calibration:		Table/Fig. 1		

Table 1: NITRATE/NITRITE~C-005

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	8.3495	0.7324	-2.2	07/27/2011	11:41:53
2	0.7500	1	6.1169	0.5384	-0.3	07/27/2011	11:43:08
3	0.5000	1	3.9833	0.3498	2.2	07/27/2011	11:44:24
4	0.1000	1	0.7596	0.0656	7.3	07/27/2011	11:45:39
5	0.0500	1	0.3613	0.0307	12.0	07/27/2011	11:46:54
6	0.0100	1	0.0791	0.0061	2.7	07/27/2011	11:48:10
7	0.0000	1	0.0250	0.0006		07/27/2011	11:49:25

Figure 1: NITRATE/NITRITE~C-005



211092604 566

Author: AEI

Date : 10/0

Original Run Filename: OM_10-04-2011_11-26-58.OMN created 10/04/2011 11:26:58
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_11-26-58.OMN last modified 10/04/2011 11:44:05
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF
1800	1	0.5321	10/04/2011@11:27:39	
Known Conc:		0.5000		
Calibration:		Table/Fig. 1		
1900	1	-0.0046	10/04/2011@11:28:55	
Known Conc:		0.0000		
993081 BLK	1	-0.0016	10/04/2011@11:30:10	
LCS N03	1	-0.0047	10/04/2011@11:31:25	
993082 LCS	1	0.6447	10/04/2011@11:32:40	
21110010504	1	-0.0054	10/04/2011@11:33:56	
21110010505	1	0.0028	10/04/2011@11:35:11	
993083 MS	1	0.4995	10/04/2011@11:36:25	
993084 MSD	1	0.5013	10/04/2011@11:37:40	
21110032601	1	0.0095	10/04/2011@11:38:55	
21110032602	1	0.0288	10/04/2011@11:40:11	
21110010506	1	0.0053	10/04/2011@11:41:26	
1800	1	0.5587	10/04/2011@11:42:41	
Known Conc:		0.5000		

106%

RR

RR

99%

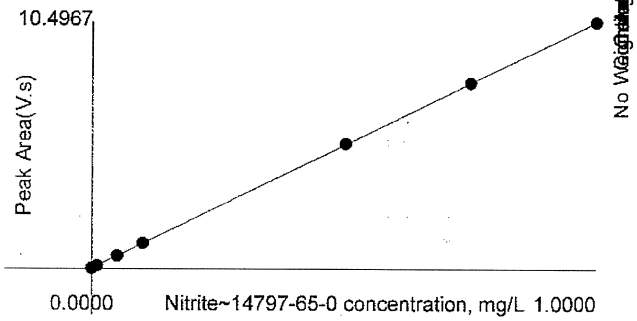
100%

RR

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



211092604 567

Author: AEI

Date: 10/0

Original Run Filename: OM_10-04-2011_11-45-02.OMN created 10/04/2011 11:45:02
Original Run Author's Signature: [AEL]
Current Run Filename: OM_10-04-2011_11-45-02.OMN last modified 10/04/2011 11:53:03
Current Run Author's Signature: [AEL]
Description: Default New Run

Sample	Rep.	Channel 1 Nitrite~14797-65-0 (mg/L)	Detection Time	MDF
1800	1	0.5051	10/04/2011@11:45:43	
Known Conc:		0.5000		
Calibration:		Table/Fig. 1		
1900	1	-0.0046	10/04/2011@11:46:59	
Known Conc:		0.0000		
993082 LL5	1	0.5018	10/04/2011@11:48:13	
21110042001	1	0.0006	10/04/2011@11:49:27	
1800	1	0.5035	10/04/2011@11:50:42	
Known Conc:		0.5000		
1900	1	-0.0014	10/04/2011@11:51:57	
Known Conc:		0.0000		

101%

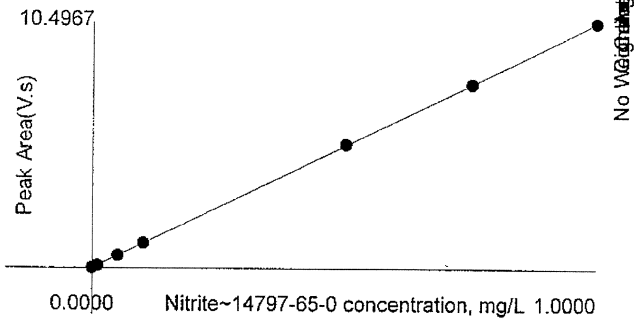
100%

101%

Table 1: Nitrite~14797-65-0

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.0000	1	10.4967	1.0821	0.1	07/27/2011	14:11:42
2	0.7500	1	7.8771	0.8108	0.1	07/27/2011	14:12:58
3	0.5000	1	5.2959	0.5415	-0.6	07/27/2011	14:14:13
4	0.1000	1	1.0781	0.1105	-0.8	07/27/2011	14:15:28
5	0.0500	1	0.5372	0.0532	1.4	07/27/2011	14:16:44
6	0.0100	1	0.1197	0.0123	4.7	07/27/2011	14:17:59
7	0.0000	1	0.0120	0.0004		07/27/2011	14:19:14

Figure 1: Nitrite~14797-65-0



211092604 566

ANALYST: AEL
DATE: 10-5-11
HBN# 466617 / 466756
3308 / 3310

IC STANDARDS IDS

IC 300.0/9056/5050

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2110315
F ICV/LCS Expiration Date 12-16-12
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-14
Chloride ICV/LCS Lot# 2110315
Cl ICV/LCS Expiration Date 12-16-12
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2110315
Br ICV/LCS Expiration Date 12-16-12
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2110315
SO4 ICV/LCS Expiration Date 12-16-12
Nitrate CCV Lot# 2110125
NO3 CCV Expiration Date 7-30-12
Nitrate ICV/LCS Lot# 2110409
NO3 ICV/LCS Expiration Date 6-20-13
Nitrite CCV Lot# NA
NO2 CCV Expiration Date
Nitrite ICV/LCS Lot#
NO2 ICV/LCS Expiration Date
Eluent Lot # 852-29-7
Eluent Expiration Date 6-12
IC Calibration Date 6-27-11
IC Calibration Expiration Date 11-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: [signature] 10/07/11

Revision 0: 1/3/07

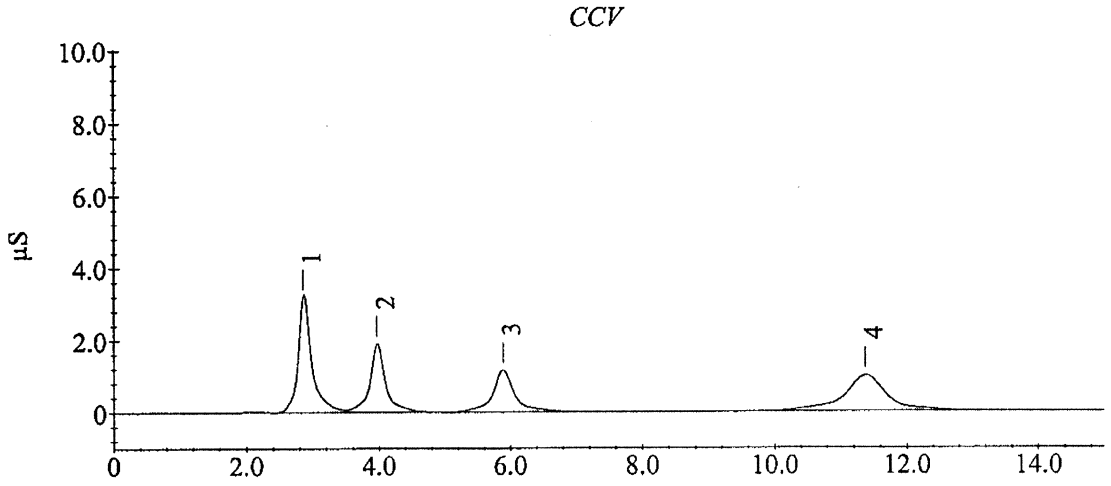
Sample Analysis Report

Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\2011\102011\1005_006.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/05/2011 16:49:04
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 6

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.85	2.309 92	467453	31881
2	CHLORIDE,16887-00-6	3.97	2.442 98	319462	18800
3	BROMIDE,24959-67-9	5.88	5.000 100	272669	11526
4	SULFATE,14808-79-8	11.37	4.847 97	446076	9863



211092604 570

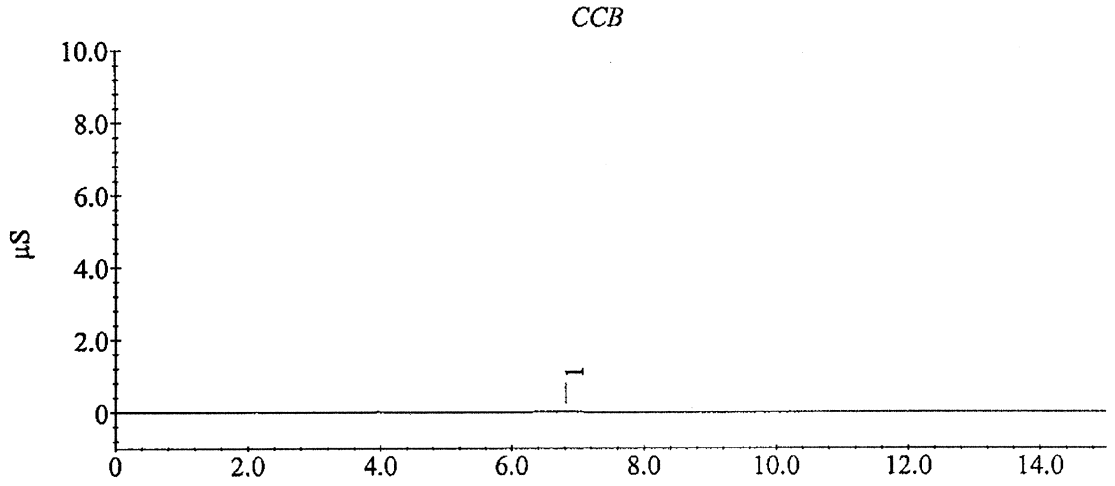
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\102011\1005_007.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/05/2011 17:06:39
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 7

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	NITRATE,14797-55-8	6.82	0.059	1596	106



211092604 571

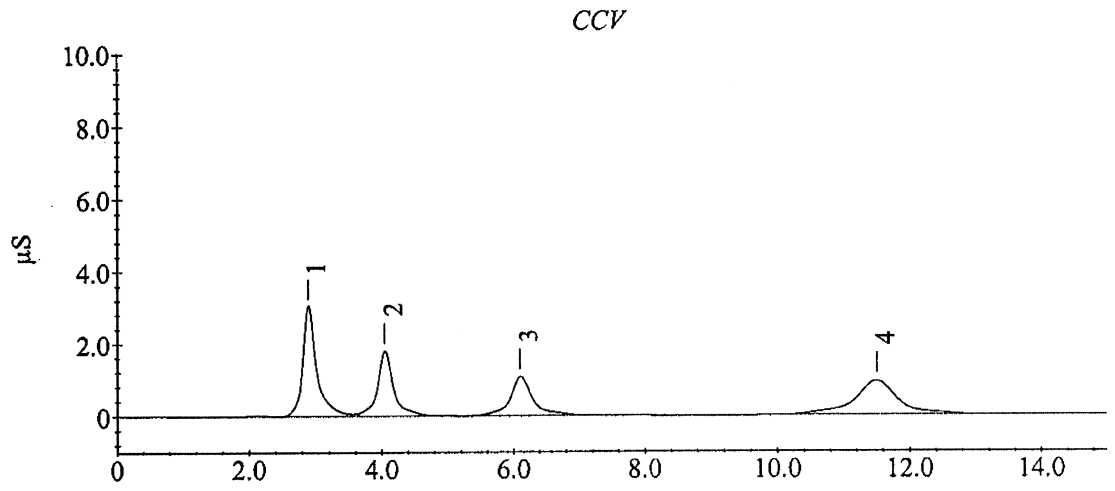
Sample Analysis Report

Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\2011\102011\1005_018.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/05/2011 20:20:04
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 18

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.88	2.252 90	455903	30057
2	CHLORIDE,16887-00-6	4.05	2.356 94	308208	17875
3	BROMIDE,24959-67-9	6.10	4.830 96	263407	10685
4	SULFATE,14808-79-8	11.50	4.647 93	427469	9313



211092604 572

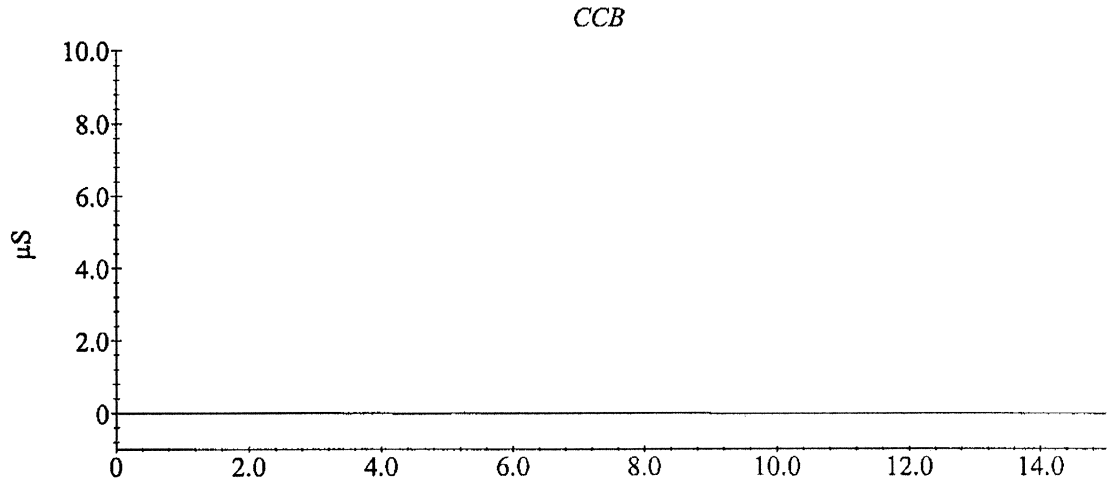
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\102011\1005_019.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/05/2011 20:37:39
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 19

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211092804 573

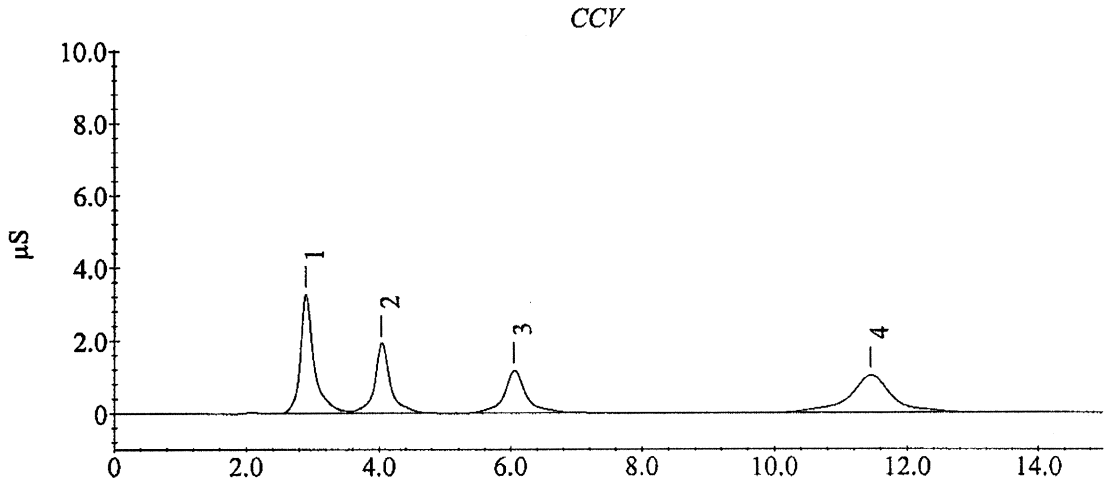
Sample Analysis Report

Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\2011\102011\1005_030.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/05/2011 23:51:55
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 30

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.90	2.325 93	470903	32666
2	CHLORIDE,16887-00-6	4.03	2.462 98	322137	18974
3	BROMIDE,24959-67-9	6.05	5.026 100	274108	11603
4	SULFATE,14808-79-8	11.45	4.914 98	452366	10161



211092604 574

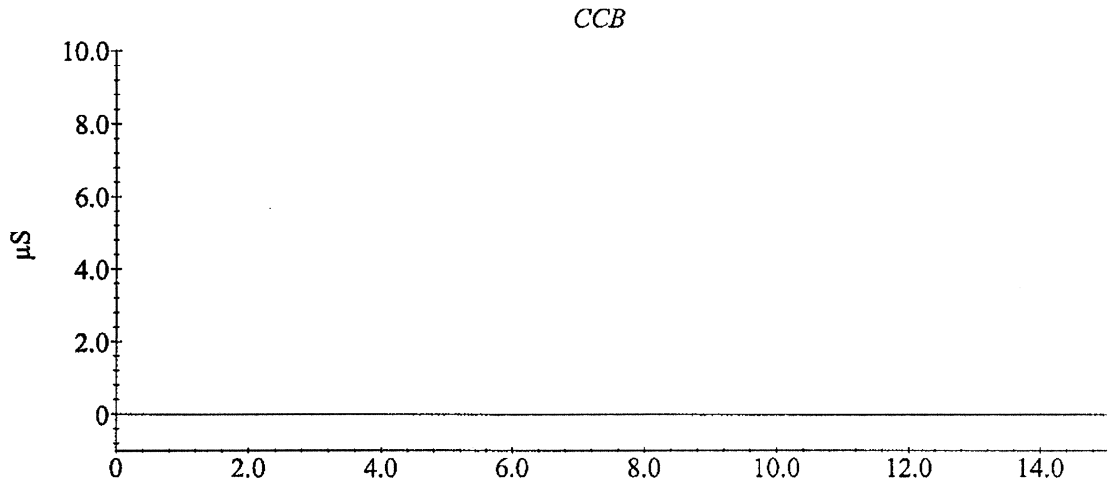
Sample Analysis Report

Sample Name : CCB
Data File Name : d:\peaknet\data\2011\102011\1005_031.DXD

Method File Name : d:\peaknet\method\dx500low.met
Date Time Collected : 10/06/2011 00:09:38
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 31

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height



211032804 575

ANALYST: AGL
DATE: 6-27-11
HBN# ICAL

IC STANDARDS IDS

IC **300.0/9056/5050**

Fluoride CCV Lot# 2100498
F CCV Expiration Date 11-30-11
Fluoride ICV/LCS Lot# 2110315
F ICV/LCS Expiration Date 12-16-12
Chloride CCV Lot# 2100387
Cl CCV Expiration Date 9-30-11
Chloride ICV/LCS Lot# 2110315
Cl ICV/LCS Expiration Date 12-16-12
Bromide CCV Lot# 2100540
Br CCV Expiration Date 1-30-12
Bromide ICV/LCS Lot# 2110315
Br ICV/LCS Expiration Date 12-16-12
Sulfate CCV Lot# 2100502
SO4 CCV Expiration Date 7-30-12
Sulfate ICV/LCS Lot# 2110315
SO4 ICV/LCS Expiration Date 12-16-12
Nitrate CCV Lot# 2110125
NO3 CCV Expiration Date 7-30-12
Nitrate ICV/LCS Lot# 2100001
NO3 ICV/LCS Expiration Date 8-18-11
Nitrite CCV Lot# 2110299
NO2 CCV Expiration Date 9-30-11
Nitrite ICV/LCS Lot# 2100091
NO2 ICV/LCS Expiration Date 7-30-11
Eluent Lot # 852-19-1
Eluent Expiration Date 12-11
IC Calibration Date 6-27-11
IC Calibration Expiration Date 9-30-11
Iodide CCV Lot# NA
Iodide CCV Expiration Date
Iodide ICV/LCS Lot#
Iodide ICV/LCS Expiration Date

REVIEWED BY: bmc 6/30/11

Revision 0: 1/3/07

IC
Percent Residuals

Fluoride

	True Con	Calc Con	% Residual
Level 2	0.1	0.1174	117
Level 3	0.2	0.2202	110
Level 4	0.5	0.499	100
Level 5	1.0	0.969	97
Level 6	2.0	1.92470	96
Level 7	5.0	5.03330	101
Level 8	10.0	NA	NA

Chloride

	True Con	Calc Con	% Residual
Level 2	0.1	0.1246	125
Level 3	0.2	0.2169	108
Level 4	0.5	0.5024	100
Level 5	1.0	0.98600	98
Level 6	2.0	1.92520	96
Level 7	5.0	5.02980	100
Level 8	10.0	NA	NA

Nitrite

	True Con	Calc Con	% Residual
Level 2	0.1	NA	NA
Level 3	0.2	0.2142	107
Level 4	0.5	0.5216	104
Level 5	1.0	0.9812	98
Level 6	2.0	1.90680	95
Level 7	5.0	5.0358	101
Level 8	10.0	NA	NA

Bromide

	True Con	Calc Con	% Residual
Level 2	0.1	NA	NA
Level 3	0.2	0.1802	90
Level 4	0.5	0.5108	102
Level 5	1.0	1.0898	108
Level 6	2.0	1.88910	94
Level 7	5.0	5.01050	100
Level 8	10.0	10.0056	100

Nitrate

	True Con	Calc Con	% Residual
Level 2	0.1	NA	NA
Level 3	0.2	0.2423	121
Level 4	0.5	0.4821	96
Level 5	1.0	0.9845	98
Level 6	2.0	1.896	95
Level 7	5.0	5.0412	101
Level 8	10.0	NA	NA

Sulfate

	True Con	Calc Con	% Residual
Level 2	0.1	NA	NA
Level 3	0.2	0.2339	117
Level 4	0.5	0.4942	98
Level 5	1.0	1.03030	103
Level 6	2.0	1.90700	95
Level 7	5.0	4.92990	98
Level 8	10.0	10.048	100

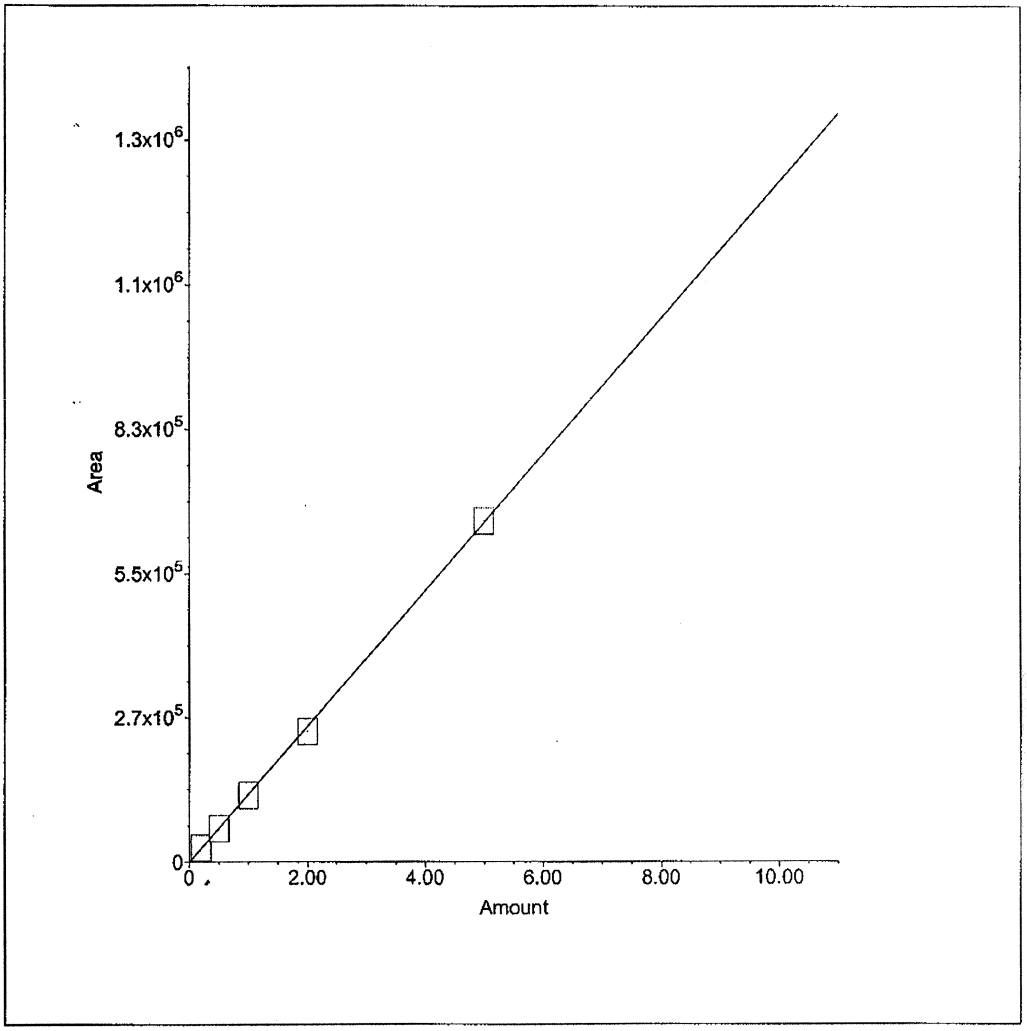
Calculations: Calculated amount x 100
True Concentration

Analyst Review: _____
Secondary Review : Bm 6/30/11

Low Level Acceptance Criteria: 75-125 %
Remaaining Levels Acceptance Criteria: 90-110 %

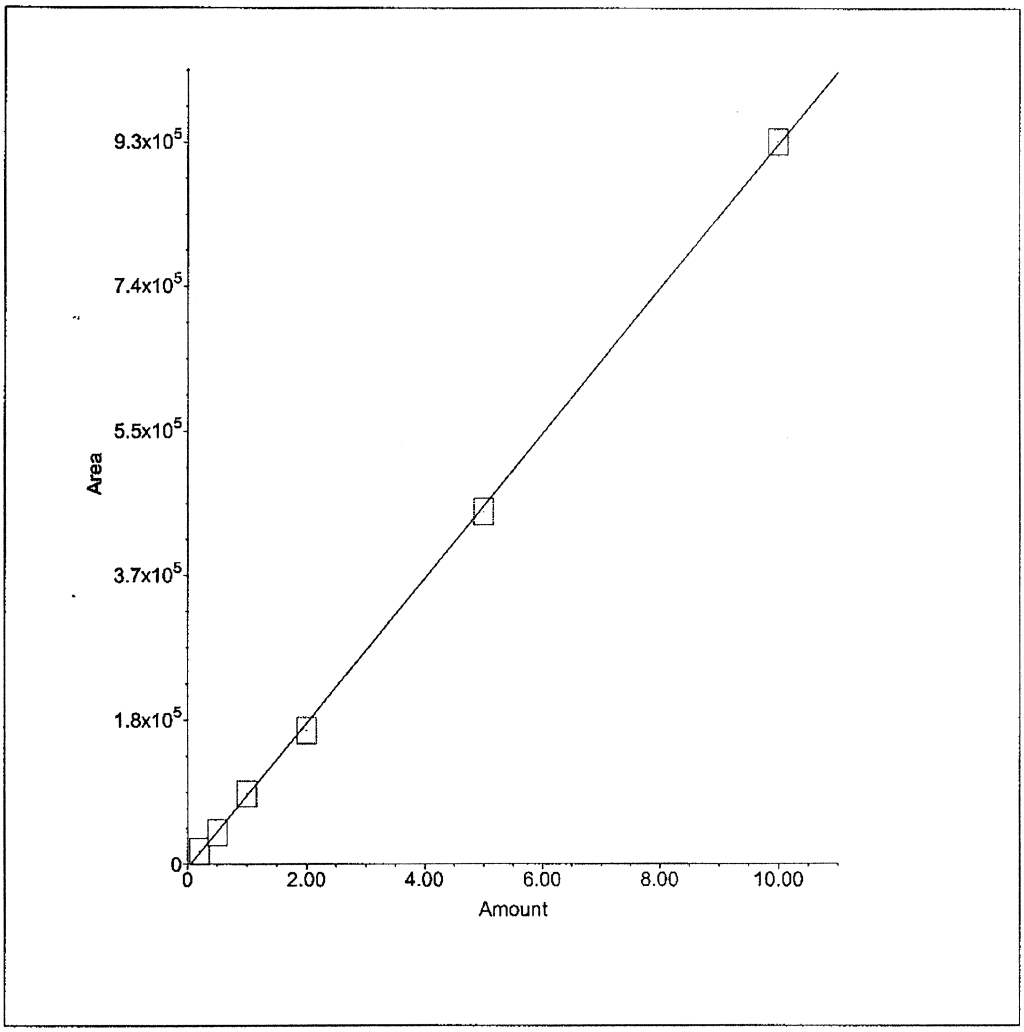
LIMS 1495772

2. Component:CHLORIDE,16887-00-6
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999594
Amt=7.596e-006*Resp+0.01511



211092804 5T6

6. Component:SULFATE,14808-79-8
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999737
Amt=1.074e-005*Resp+0.05647



21092804 579

Calibration Update Report

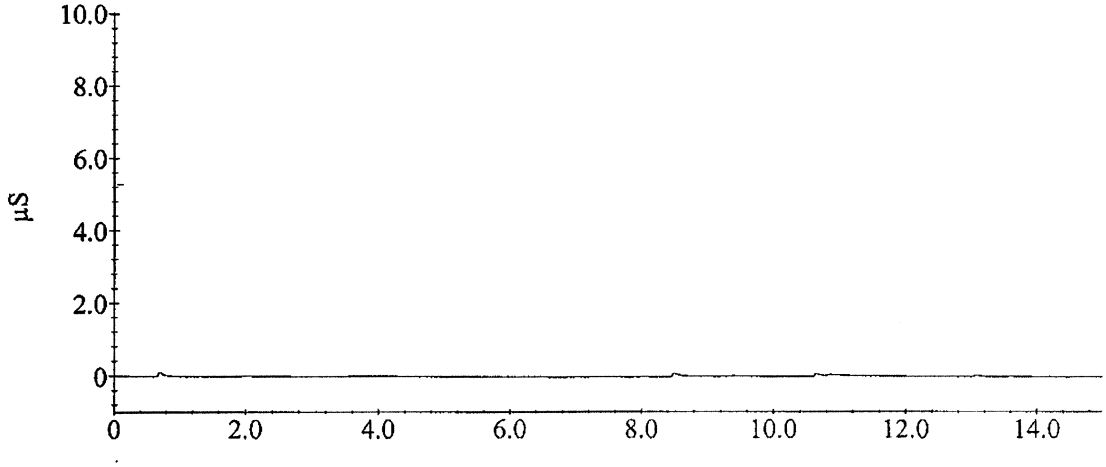
Sample Name : AUTOCAL 1
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_005.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 15:40:34
Calibration Date : 06/28/2011 10:43:40
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
	FLUORIDE,16984-48-8					
	CHLORIDE,16887-00-6					
	NITRITE,14797-65-0					
	BROMIDE,24959-67-9					
	NITRATE,14797-55-8					
	SULFATE,14808-79-8					

AUTOCAL 1



211092604 580

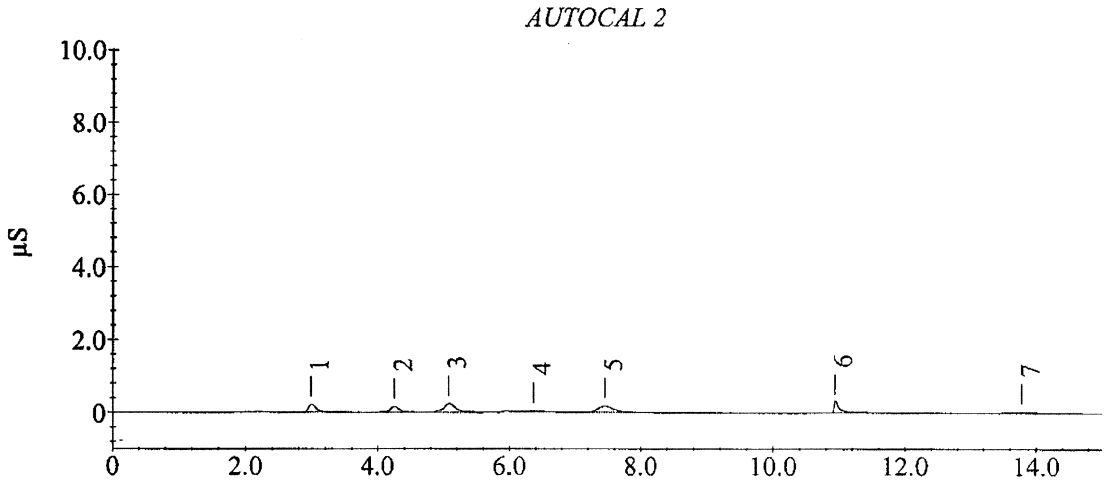
Calibration Update Report

Sample Name : AUTOCAL 2
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_006.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 15:58:10
Calibration Date : 06/28/2011 10:43:43
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	2.98	0.10	16670	16670	16670
2	CHLORIDE,16887-00-6	4.25	0.10	14417	14417	14417
3	NITRITE,14797-65-0	5.07	0.10	31147	31147	31147
4	BROMIDE,24959-67-9	6.36	0.10	4171	4171	4171
5	NITRATE,14797-55-8	7.45	0.10	27329	27329	27329
7	SULFATE,14808-79-8	13.78	0.10	11276	11276	11276



211092804 561

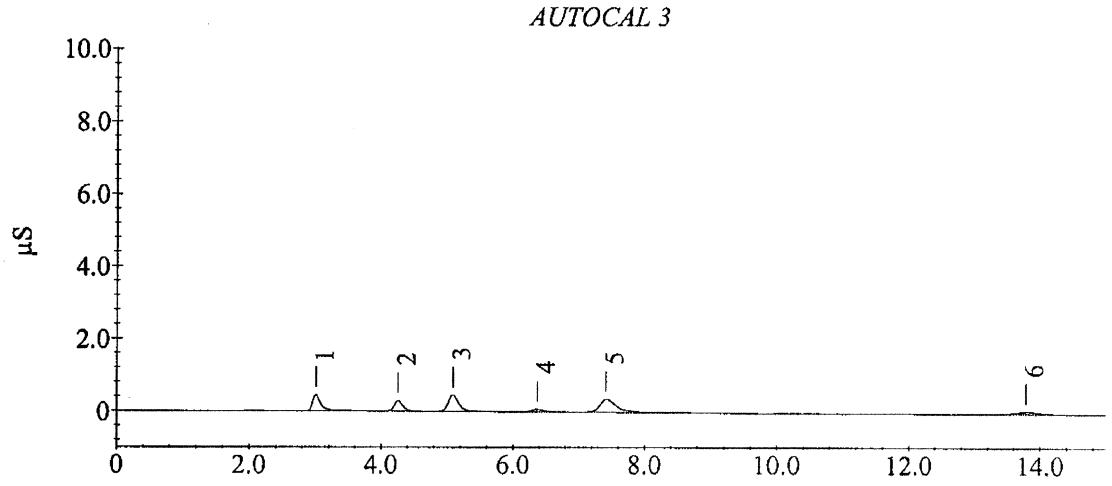
Calibration Update Report

Sample Name : AUTOCAL 3
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_007.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 16:15:47
Calibration Date : 06/28/2011 10:43:47
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	3.00	0.20	37837	37837	37837
2	CHLORIDE,16887-00-6	4.25	0.20	26566	26566	26566
3	NITRITE,14797-65-0	5.08	0.20	51877	51877	51877
4	BROMIDE,24959-67-9	6.37	0.20	9102	9102	9102
5	NITRATE,14797-55-8	7.42	0.20	62957	62957	62957
6	SULFATE,14808-79-8	13.78	0.20	16526	16526	16526



211092604 582

Calibration Update Report

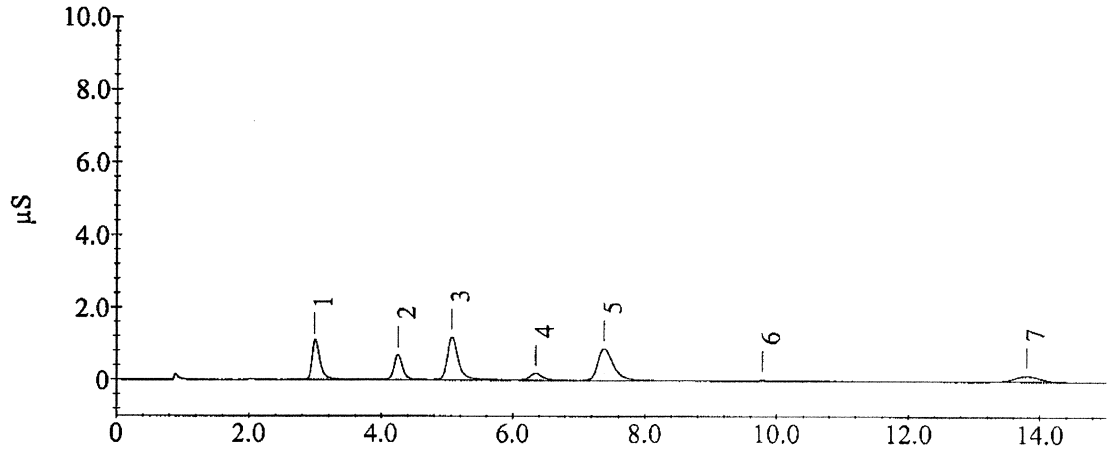
Sample Name : AUTOCAL 4
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_008.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 16:33:24
Calibration Date : 06/28/2011 10:43:50
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	2.98	0.50	95196	95196	95196
2	CHLORIDE,16887-00-6	4.25	0.50	64148	64148	64148
3	NITRITE,14797-65-0	5.07	0.50	143550	143550	143550
4	BROMIDE,24959-67-9	6.35	0.50	27181	27181	27181
5	NITRATE,14797-55-8	7.38	0.50	143019	143019	143019
7	SULFATE,14808-79-8	13.80	0.50	40762	40762	40762

AUTOCAL 4



211092804 583

Calibration Update Report

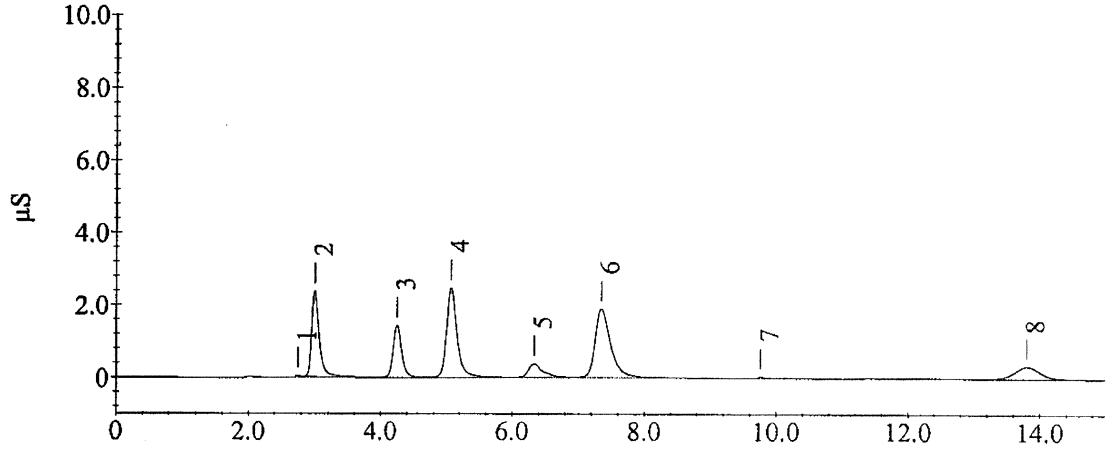
Sample Name : AUTOCAL 5
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_009.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 16:51:02
Calibration Date : 06/28/2011 10:43:54
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	FLUORIDE,16984-48-8	3.00	1.00	191871	191871	191871
3	CHLORIDE,16887-00-6	4.25	1.00	127806	127806	127806
4	NITRITE,14797-65-0	5.07	1.00	280577	280577	280577
5	BROMIDE,24959-67-9	6.33	1.00	58848	58848	58848
6	NITRATE,14797-55-8	7.35	1.00	310752	310752	310752
8	SULFATE,14808-79-8	13.80	1.00	90679	90679	90679

AUTOCAL 5



211092604 584

Calibration Update Report

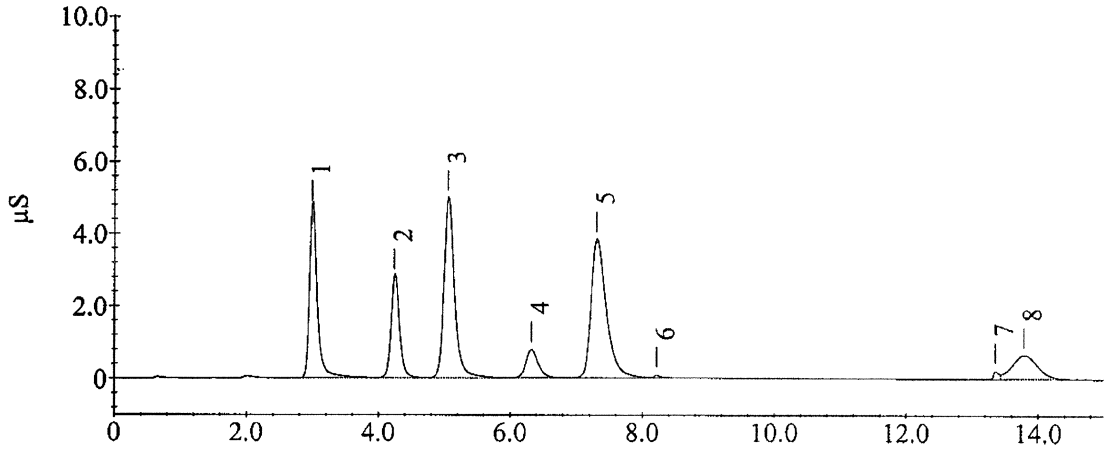
Sample Name : AUTOCAL 6
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_010.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 17:08:40
Calibration Date : 06/28/2011 10:43:59
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	2.98	2.00	388496	388496	388496
2	CHLORIDE,16887-00-6	4.23	2.00	251446	251446	251446
3	NITRITE,14797-65-0	5.05	2.00	556575	556575	556575
4	BROMIDE,24959-67-9	6.32	2.00	102557	102557	102557
5	NITRATE,14797-55-8	7.30	2.00	615100	615100	615100
8	SULFATE,14808-79-8	13.78	2.00	172329	172329	172329

AUTOCAL 6



211092804 565

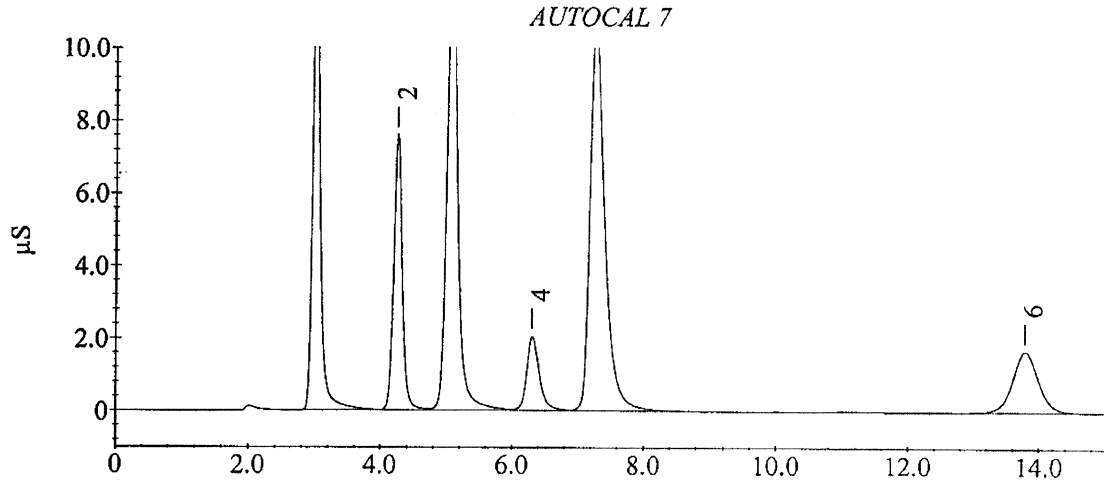
Calibration Update Report

Sample Name : AUTOCAL 7
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_011.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 17:26:18
Calibration Date : 06/28/2011 10:44:04
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	3.00	5.00	1028000	1028000	1028000
2	CHLORIDE,16887-00-6	4.25	5.00	660132	660132	660132
3	NITRITE,14797-65-0	5.05	5.00	1489618	1489618	1489618
4	BROMIDE,24959-67-9	6.30	5.00	273257	273257	273257
5	NITRATE,14797-55-8	7.25	5.00	1665277	1665277	1665277
6	SULFATE,14808-79-8	13.78	5.00	453811	453811	453811



211092804 566

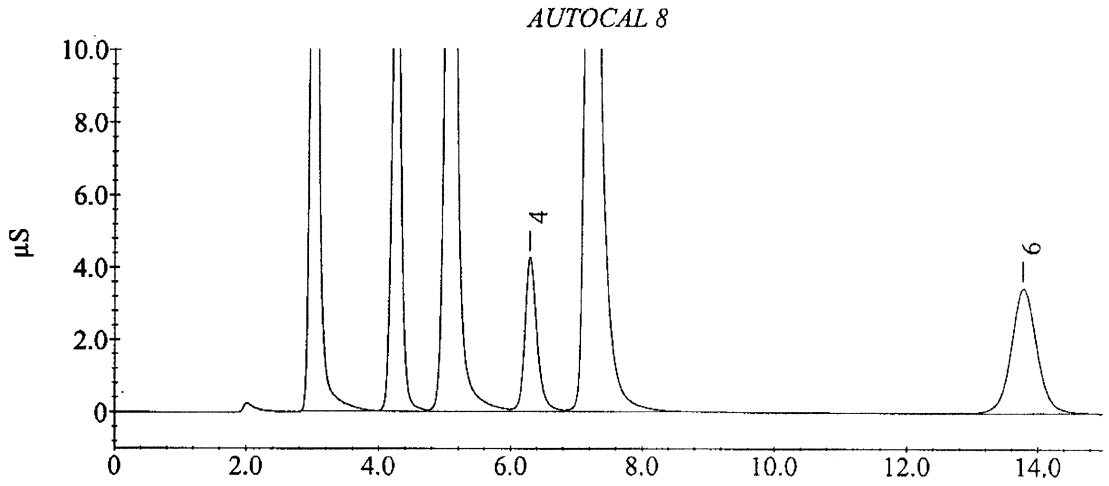
Calibration Update Report

Sample Name : AUTOCAL 8
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_012.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Schedule File Name : d:\peaknet\schedule\2011\062011\0627-1.sch
Date Time Collected : 06/27/2011 17:43:54
Calibration Date : 06/28/2011 10:44:08
System Operator : AEL

Peak Information : All Components

Peak #	Component Name	Retention Time	Component Amount	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1	FLUORIDE,16984-48-8	3.02	10.00	2134056	2134056	2134056
2	CHLORIDE,16887-00-6	4.25	10.00	1397311	1397311	1397311
3	NITRITE,14797-65-0	5.07	10.00	3083539	3083539	3083539
4	BROMIDE,24959-67-9	6.28	10.00	546422	546422	546422
5	NITRATE,14797-55-8	7.20	10.00	3613674	3613674	3613674
6	SULFATE,14808-79-8	13.77	10.00	930414	930414	930414



211092604 567

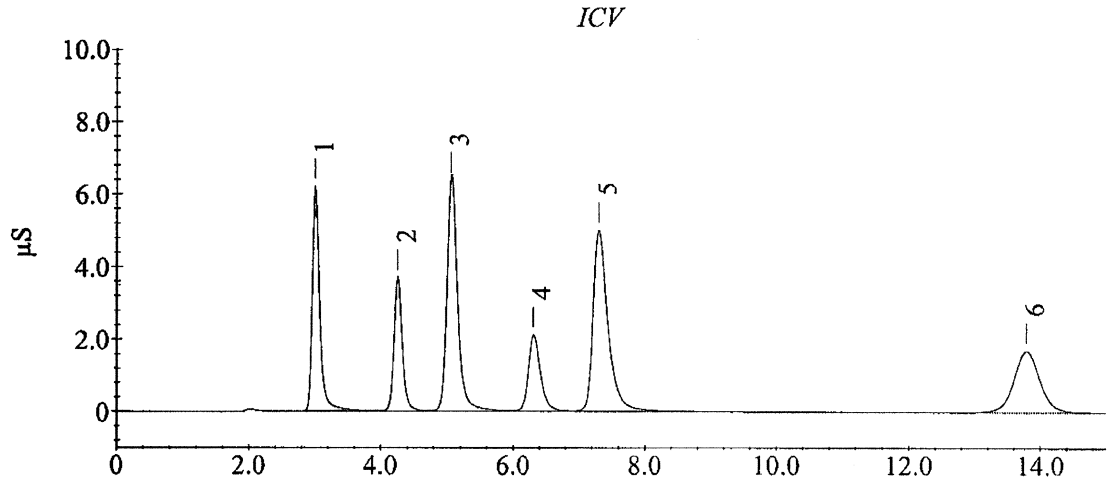
Sample Analysis Report

Sample Name : ICV
Data File Name : D:\PEAKNET\DATA\2011\062011\0627_013.DXD

Method File Name : D:\PEAKNET\METHOD\DX500low.met
Date Time Collected : 06/27/2011 18:01:31
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 13

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	2.41 96	488853	61836
2	CHLORIDE,16887-00-6	4.25	2.45 98	320490	36690
3	NITRITE,14797-65-0	5.05	2.46 98	720851	63479
4	BROMIDE,24959-67-9	6.30	5.06 101	275921	20955
5	NITRATE,14797-55-8	7.30	2.42 97	791139	49853
6	SULFATE,14808-79-8	13.78	5.00 100	460768	16892



211092804 586

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 9-28-11
HBN#: 466146
Batch#: 9041

SULFIDE 4500 S D/HACH 8131

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE 300.0/9038

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE 4500 F D

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD HACH 8000

COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

Revision 7: 1/5/11

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110450
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	PH07
.45 um Filter Lot #	ROSA15488

ORTHOPHOSPHATE 365.1

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free) 4500-CL G

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron 3500-Fe D

CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 10/04/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
09/28/2011 10:10	Cr6	0.493	mg/L	99% CCV	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.939	11.5
09/28/2011 10:11	Cr6	-0.006	mg/L	CCB	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
09/28/2011 10:11	Cr6	-0.006	mg/L	991369MB	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6
09/28/2011 10:11	Cr6	0.49	mg/L	98% 991370LCS	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.934	11.6
09/28/2011 10:13	Cr6	-0.003	mg/L	21109280401*	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.011	97.5
09/28/2011 10:14	Cr6	-0.02	mg/L	21109280402	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	-0.02	104.7
09/28/2011 10:16	Cr6	0.469	mg/L	94% 21109280403MS	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.895	12.7
09/28/2011 10:16	Cr6	0.471	mg/L	94% 21109280404MSD	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.898	12.6
09/28/2011 10:17	Cr6	0.494	mg/L	99% CCV	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.942	11.4
09/28/2011 10:17	Cr6	-0.007	mg/L	CCB	9041	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.005	98.9

* received sample out of hold time. JEM 9-28-11

ASS 1409280412

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 9-29-11
HBN#: 466230
Batch#: 9047

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

Revision 7: 1/5/11

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2110450
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	ROSA15408

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: bmc 10/4/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
09/29/2011 11:51	Cr6	0.498	mg/L 100%	CCV	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.948	11.3
09/29/2011 11:52	Cr6	-0.009	mg/L	CCB	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.001	99.8
09/29/2011 11:52	Cr6	-0.009	mg/L	991844 mb	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0	100
09/29/2011 11:53	Cr6	0.5	mg/L 100%	991845 LCS	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.953	11.1
09/29/2011 11:54	Cr6	0.003	mg/L	21109280407 *	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.023	94.8
09/29/2011 11:54	Cr6	0.001	mg/L 0% RPD	991846 dup	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.02	95.5
09/29/2011 11:54	Cr6	0.476	mg/L 95%	991847 ms	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.909	12.3
09/29/2011 11:55	Cr6	0.006	mg/L	21109280408 *	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.029	93.5
09/29/2011 11:56	Cr6	0.494	mg/L 99%	CCV	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.941	11.5
09/29/2011 11:56	Cr6	-0.01	mg/L	CCB	9047	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	-0.001	100.2

* samples were expired when received. JEM 9-29-11

ESS 1092812

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 9-30-11
HBN#: 466295
Batch#: 9050

SULFIDE 4500 S D/HACH 8131

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Sulfide Reagent 1 Lot#
- Sulfide Reagent 2 Lot#
- H2SO4 1:1 Lot#
- Calibration Date
- Calibration Expiration Date

SULFATE 300.0/9038

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Conditioning Reagent Lot#
- Barium Chloride Lot #
- Calibration Date
- Calibration Expiration Date

FLUORIDE 4500 F D

- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- SPADS Lot#
- Calibration Date
- Calibration Expiration Date

COD HACH 8000

- COD Reactor #
- CCV Lot #
- CCV Expiration Date
- ICV/LCS Lot#
- ICV Expiration Date
- COD Vials Lot#
- Calibration Date
- Calibration Expiration Date
- Digestion Start/Stop Time
- Digestion Temperature (°C)

Revision 7: 1/5/11

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

- CCV Lot# 2110023
- CCV Expiration Date 11-12
- ICV/LCS Lot # 2110020
- ICV Expiration Date 1-30-12
- Powder Pillow Lot # 2110450
- Calibration Date 1-12-11
- Calibration Expiration Date 1-12-12
- pH meter PH07
- .45 um Filter Lot # ROSA15408

ORTHOPHOSPHATE 365.1

- CCV Lot#
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Powder Pillow Lot #
- Calibration Date
- Calibration Expiration Date

CHLORINE (Total Residual/Free) 4500-CL G

- CCV Lot#
- CCV Expiration Date
- ICV/LCS Lot #
- ICV Expiration Date
- Powder Pillow Lot #
- Calibration Date
- Calibration Expiration Date

Ferrous Iron 3500-Fe D

- CCV Expiration Date
- CCV Lot#
- ICV/LCS Lot#
- ICV Expiration Date
- Ferrous Ammonia Acetate Lot#
- Phenanthroline Lot#
- Calibration Date
- Calibration Expiration Date

REVIEWED BY: BMC 10/04/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
09/30/2011 08:46	Cr6	0.501	mg/L 100%	CCV	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.955	11.1
09/30/2011 08:47	Cr6	-0.01	mg/L	CCB	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0	100
09/30/2011 08:47	Cr6	-0.009	mg/L	992102 MB	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0	100
09/30/2011 08:47	Cr6	0.499	mg/L 100%	992103 LCS	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.952	11.2
09/30/2011 08:48	Cr6	0.002	mg/L	9293502	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.022	95.1
09/30/2011 08:48	Cr6	0.002	mg/L 0% RPD	DUP	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.021	95.3
09/30/2011 08:49	Cr6	0.15	mg/L 30%	MS	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.299	50.2
09/30/2011 08:56	Cr6	-0.021	mg/L	21109293502	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	5	0.01	97.7
09/30/2011 08:56	Cr6	-0.021	mg/L 0% RPD	992104 dup	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	5	0.01	97.7
09/30/2011 08:57	Cr6	2.056	mg/L 82%	992105 ms	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	5	0.787	16.3
09/30/2011 08:58	Cr6	0.501	mg/L 100%	CCV	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.955	11.1
09/30/2011 08:59	Cr6	-0.006	mg/L	CCB	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
09/30/2011 10:47	Cr6	0.486	mg/L 97%	CCV	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.927	11.8
09/30/2011 10:48	Cr6	-0.007	mg/L	CCB	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.005	98.9
09/30/2011 10:48	Cr6	-0.002	mg/L	21109280410*	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.013	97.1
09/30/2011 10:49	Cr6	0.002	mg/L	21109280411	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.021	95.3
09/30/2011 10:49	Cr6	-0.001	mg/L	21109280412	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.015	96.6
09/30/2011 10:50	Cr6	0.491	mg/L 98%	CCV	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.937	11.6
09/30/2011 10:50	Cr6	-0.006	mg/L	CCB	9050	HACH4	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.006	98.6

* sample out of holding time when received. JEM 9-30-11

SSC 1492501.12

HACH #: 04

STANDARD IDs

Analyst: DJH
Date: 10/1/11
HBN#: 466385
Batch#: 9054

SULFIDE 4500 S D/HACH 8131

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE 300.0/9038

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE 4500 F D

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD HACH 8000

COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

CCV Lot#	2110023
CCV Expiration Date	11/12
ICV/LCS Lot #	2110020
ICV Expiration Date	1/30/12
Powder Pillow Lot #	2110450
Calibration Date	1/12/11
Calibration Expiration Date	1/12/12
pH meter	pH07
.45 um Filter Lot #	R05A15488

ORTHOPHOSPHATE 365.1

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free) 4500-CL G

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron 3500-Fe D

CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: Bmc 10/04/11

Revision 7: 1/5/11

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T	Error
10/01/2011 09:49	Cr6		0.502 mg/L	CCV 100%	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.956	11.1	
10/01/2011 09:50	Cr6		0 mg/L	CCB	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.018	95.9	
10/01/2011 09:51	Cr6		-0.006 mg/L	992631 MB	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.007	98.4	
10/01/2011 09:51	Cr6		0.501 mg/L	992632 LCS 100%	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.954	11.1	
10/01/2011 09:53	Cr6		-0.025 mg/L	21110010501	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	-0.029	106.9	
10/01/2011 09:53	Cr6		-0.024 mg/L	992633 Dup	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	-0.027	106.4	
10/01/2011 09:54	Cr6		0.485 mg/L	992634 MS 97%	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.925	11.9	
10/01/2011 09:55	Cr6		0.002 mg/L	21110010502	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.021	95.3	
10/01/2011 09:56	Cr6		0.498 mg/L	CCV 100%	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.95	11.2	
10/01/2011 09:56	Cr6		-0.008 mg/L	CCB	9054	HACH4	1199649	DJH	HEX.CHROMIUM1/12/11	1	0.003	99.3	

JCS 1492547.2

HACH #: 04

STANDARD IDs

Analyst: MDT
Date: 10-4-11
HBN#: 466501
Batch#: 9059

SULFIDE 4500 S D/HACH 8131

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE 300.0/9038

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE 4500 F D

CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD HACH 8000

COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

HEXAVALENT CHROMIUM 7196A/3500 Cr B-01

CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	10-4-11 MDT R ph07
.45 um Filter Lot #	RO JA54556

ORTHOPHOSPHATE 365.1

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

CHLORINE (Total Residual/Free) 4500-CL G

CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron 3500-Fe D

CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: BMC 10/4/11

Date	Result	Value	Unit	Sample	Number	Instrumen	Serial	Operator	Program	Dilution factor	Abs
10/04/2011 11:09	Cr6	0.497	mg/L	99% CCV	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.948
10/04/2011 11:10	Cr6	-0.01	mg/L	CCB	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.002
10/04/2011 11:10	Cr6	-0.01	mg/L	993061 MB	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.001
10/04/2011 11:11	Cr6	0.539	mg/L	993062 LCS	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	1.026
10/04/2011 11:11	Cr6	-0.01	mg/L	21110010504	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	-0.001
10/04/2011 11:11	Cr6	-0.008	mg/L	21110010505	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.002
10/04/2011 11:12	Cr6	0.531	mg/L	106% 993063 SPK	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	1.01
10/04/2011 11:12	Cr6	-0.009	mg/L	993064 DP	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0
10/04/2011 11:13	Cr6	-0.01	mg/L	21110010506	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0
10/04/2011 11:13	Cr6	0.516	mg/L	103% CCV	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.983
10/04/2011 11:13	Cr6	-0.007	mg/L	CCB	1	HACH4	1199649	MDT	HEX.CHROMIUM1/12/11	1	0.005

SSC H09764172

HACH #: 04

STANDARD IDs

Analyst: JEM
Date: 1-12-11
HBN#: NA
Batch#: NA

SULFIDE	4500 S D/HACH 8131
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Sulfide Reagent 1 Lot#	
Sulfide Reagent 2 Lot#	
H2SO4 1:1 Lot#	
Calibration Date	
Calibration Expiration Date	

SULFATE	300.0/9038
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Conditioning Reagent Lot#	
Barium Chloride Lot #	
Calibration Date	
Calibration Expiration Date	

FLUORIDE	4500 F D
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
SPADS Lot#	
Calibration Date	
Calibration Expiration Date	

COD	HACH 8000
COD Reactor #	
CCV Lot #	
CCV Expiration Date	
ICV/LCS Lot#	
ICV Expiration Date	
COD Vials Lot#	
Calibration Date	
Calibration Expiration Date	
Digestion Start/Stop Time	
Digestion Temperature (°C)	

Revision 7: 1/5/11

HEXAVALENT CHROMIUM	7196A/3500 Cr B-01
CCV Lot#	2110023
CCV Expiration Date	11-12
ICV/LCS Lot #	2110020
ICV Expiration Date	1-30-12
Powder Pillow Lot #	2100553
Calibration Date	1-12-11
Calibration Expiration Date	1-12-12
pH meter	pH07
.45 um Filter Lot #	R0JA54556

ORTHOPHOSPHATE	365.1
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

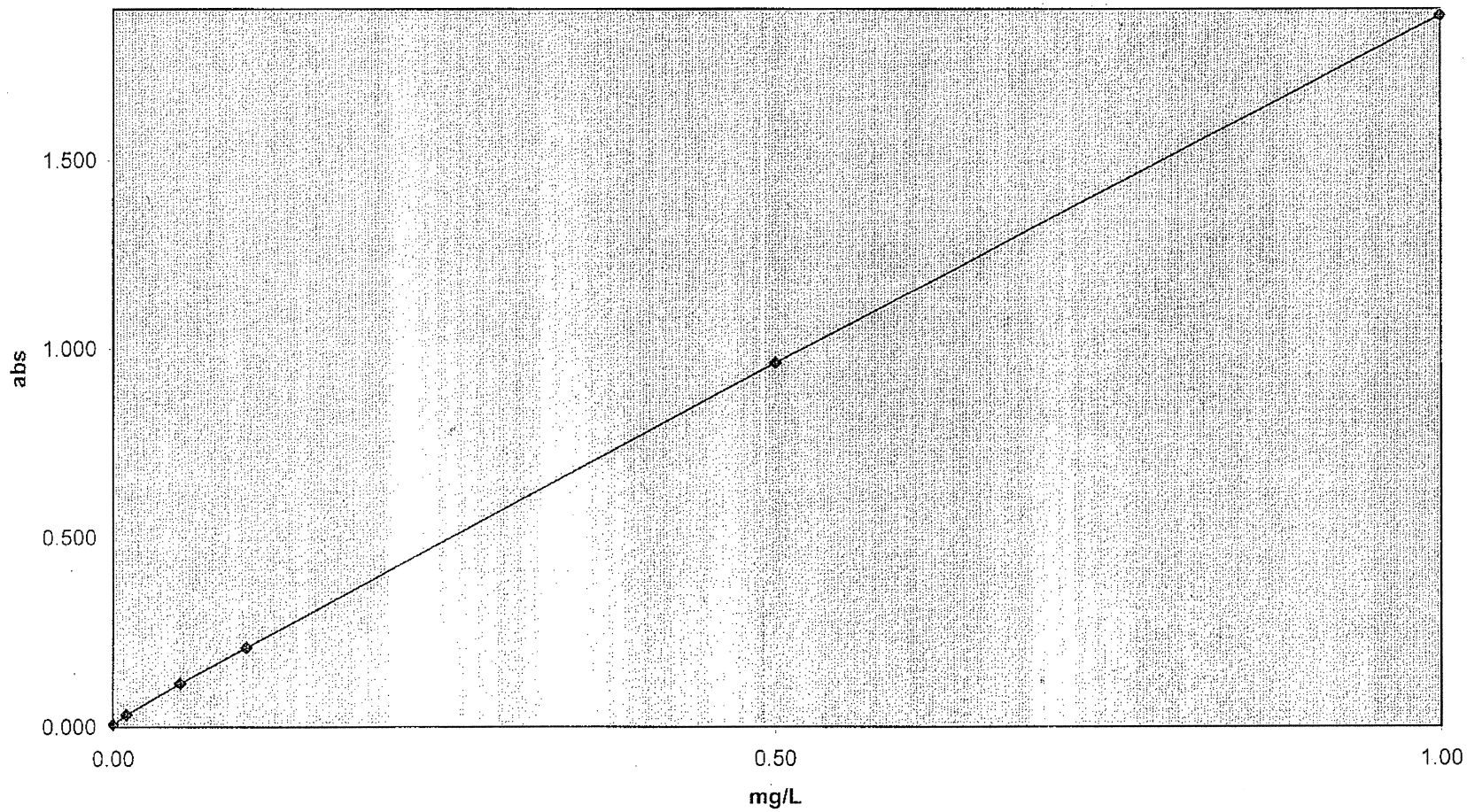
CHLORINE (Total Residual/Free)	4500-CL G
CCV Lot#	
CCV Expiration Date	
ICV/LCS Lot #	
ICV Expiration Date	
Powder Pillow Lot #	
Calibration Date	
Calibration Expiration Date	

Ferrous Iron	3500-Fe D
CCV Expiration Date	
CCV Lot#	
ICV/LCS Lot#	
ICV Expiration Date	
Ferrous Ammonia Acetate Lot#	
Phenanthroline Lot#	
Calibration Date	
Calibration Expiration Date	

REVIEWED BY: JDT 1/13/11

211032604 600

HACH 04
Hexavalent Chromium
r^2=0.9999



T09 h9976ATT7

Test Hex. Chrom.
Calibration Date 1-12-11
Calibration Time 11:20
Analyst JEM

HACH 04

	Conc	Abs
1	0	0.008
2	0.01	0.033
3	0.05	0.116
4	0.10	0.209
5	0.50	0.962
6	1.0	1.883
7	—	—

JDT 1/13/11

R factor 0.9999

Secondary Review
JDT 1/13/11

Saved as: 110112HEXHACH04ICV

Date	Result	Value	Unit	Sample	Number	Instrument	Serial	Operator	Program	Dilution factor	Abs	%T
01/12/2011 12:57	Cr6	0.507	mg/L 101%	ICV 0.5PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.965	10.8
01/12/2011 12:59	Cr6	-0.005	mg/L	ICB	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.008	98.2
01/12/2011 13:00	Cr6	0.006	mg/L 60%	LLCK 0.01PPM	1	DR 2800	1199649	JEM	HEX.CHROMIUM1/12/11	1	0.028	93.8

HACH04

DHL ANALYTICAL

October 17, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1110028

RE:

Dear Dana Merrill:

DHL Analytical received 5 sample(s) on 10/5/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

211032804 604

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Analytical Dates Report 18

Sample Results 19

Analytical QC Summary Report 24

Sequence Report 29

2110928004 695

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

111005

Chain of Custody Record

Submitted by	Bill to
Client: Gulf Coast Analytical Labs	Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue	Address: 7979 GSRI Avenue
Baton Rouge, LA 70820	Baton Rouge, LA 70820
Contact: Dana Merrill	Contact: Dana Merrill
Phone: (225)769-4900	Phone: (225)769-4900
Fax: (225)767-5717	Fax: (225)767-5717

P.O. Number: 11-0928

Project Name/Number: 4747

Sampled By:

Analysis Requested: PERCHLORATE (6860) -FILTERED; PERCHLORATE (6860) -UNFILTERED

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Pre-servatives	No. Containers	PERCHLORATE (6860) -FILTERED	PERCHLORATE (6860) -UNFILTERED	Remarks:	Lab ID
W	9/30/2011	10:00		X	21110010501		2	X	X	M114MW004	
W	9/30/2011	12:36		X	21110010502		2	X	X	M114MW001	
W	10/3/2011	8:00		X	21110010504		2	X	X	EB-1	
W	10/3/2011	9:32		X	21110010505		2	X	X	M114MW002	
W	10/3/2011	11:46		X	21110010506		2	X	X	M114MW003	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days 1 week X standard other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	10/4/11	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		10/5/11	1015
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

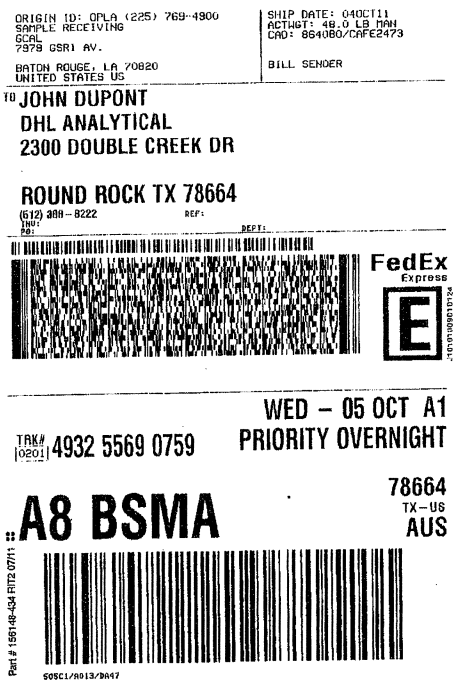
Note: Receiving temp 6.7° Therm #57 No custody seals

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211032604 606


ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 04OCT11
ACTWGT: 46.0 LB MAN
CAD: 864080/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(612) 388-8222

INV:
PO:
REF:
DEPT:

FedEx
Express

TRK# 0201 4932 5569 0759

WED - 05 OCT A1
PRIORITY OVERNIGHT

78664
TX-US
AUS

A8 BSMA

Part # 156148-434 FAT2 07/11

505C1/A013/DA47

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB | Date Received: 10/5/2011

Work Order Number 1110028 | Received by JB

Checklist completed by: [signature] 10/5/11 (Signature / Date) | Reviewed by SS 10-5-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

211092604 606

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

10/17/11
Date

21103260A 609

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name:	Date: 10/17/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1110028
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

211032804 610

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name:	Date: 10/17/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1110028

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

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1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

2110928004 611

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/14/2011 9:45**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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10.17.2011

211092604 612

Internal Standard Summary

Sequence Name:	**111014_CLO4**
Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111014	1460.205
LRB1-111014	1618.288
LCVL1-111014	1472.384
ICS1-111014	1381.102
LCS-48634	1656.983
MB-48634	1623.653
1110019-01B	1312.267
1110019-02B	2016.793
1110019-03B	1372.407
1110019-04B	1495.062
1110019-05B	1598.631
1110019-06B	1498.546
1110019-07B	1310.633
~~1110019-02BMS~~	1529.364
~~1110019-02BMSD~~	1327.776
CCV1-111014	1359.997

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LRB2-111014	1805.107
LCVL2-111014	1367.813
ICV1-111017	2256.260
ICS1-111017	2282.900
LRB1-111017	2407.729
LCVL1-111017	2609.487
1110028-01B	2548.283
1110028-02B	2519.623
1110028-03B	2500.923
1110028-04B	1984.372
1110028-05B	1975.060
1110019-02BMS	2317.634
1110019-02BMSD	2179.053
CCV1-111017	2081.867
LRB2-111017	1974.628
LCVL2-111017	1861.640

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10/17/11

10.17.2011

211092604 614

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/11/2011 9:39**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/12/11

10.17.2011

21092804 615

Internal Standard Summary

Sequence Name:	**111011_CLO4**
Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111011	1454.038
ICS1-111011	1482.960
LRB1-111011	1606.663
LCVL1-111011	1688.557
LCS-48633	1707.350
MB-48633	1737.273
1110019-01A	1775.291
1110019-02A	1945.275
1110019-05A	1309.091
1110019-06A	1263.488
1110019-07A	1065.323
1110019-03A	1319.574
1110019-04A	1109.599
1110019-02AMS	1366.148
1110019-02AMSD	1408.683
CCV1-111011	1283.561

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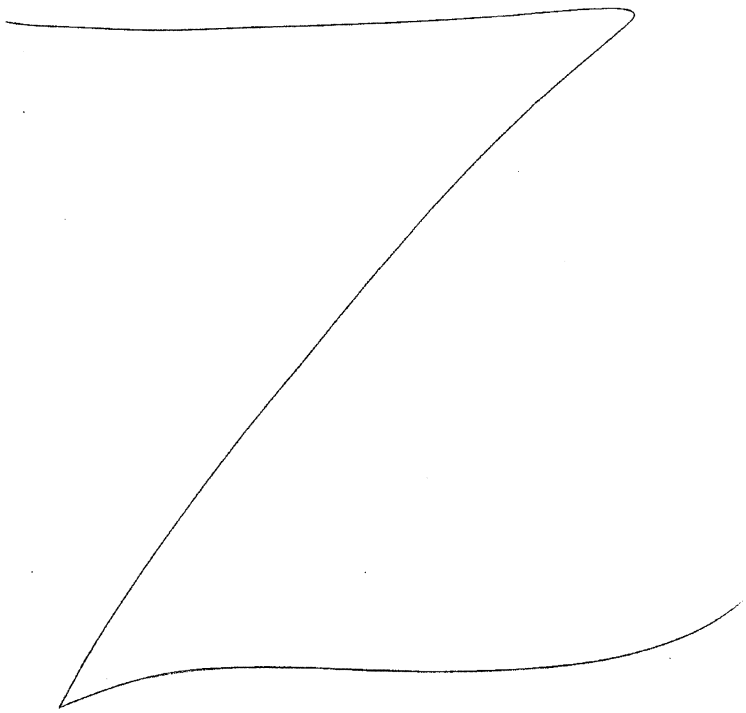
10.17.2014

2110928004 616

LRB2-111011	1717.386
LCVL2-111011	1065.523
1110028-01A	1640.164
1110028-02A	1201.143
1110028-03A	2112.916
1110028-04A	2016.670
1110028-05A	1993.853
CCV2-111011	1962.865
LRB3-111011	2262.211
LCVL3-111011	2124.478

10.17.2011

10/17/11



211092804 617

DHL Analytical Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110028

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis (Parameter is ELAP Accredited but not NELAC Certified)

Exception Report R1-01

The samples were received on and log-in performed on 10/5/11. A total of 5 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Perchlorate analysis performed on 10/11/11 (batch 48633) the matrix spike and matrix spike duplicate recoveries were above control limits. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits. No further corrective actions were taken.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

This sample delivery group arrived at DHL Analytical 10/5/11.

211092604 616

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110028

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1110028-01	21110010501		09/30/11 10:00 AM	10/05/11
1110028-02	21110010502		09/30/11 12:36 PM	10/05/11
1110028-03	21110010504		10/03/11 08:00 AM	10/05/11
1110028-04	21110010505		10/03/11 09:32 AM	10/05/11
1110028-05	21110010506		10/03/11 11:46 AM	10/05/11

211092804 619

CLIENT: GCAL LAB
Project:
Lab Order: 1110028

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1110028-01A	21110010501	09/30/11 10:00 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110028-01B	21110010501	09/30/11 10:00 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110028-02A	21110010502	09/30/11 12:36 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110028-02B	21110010502	09/30/11 12:36 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110028-03A	21110010504	10/03/11 08:00 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110028-03B	21110010504	10/03/11 08:00 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110028-04A	21110010505	10/03/11 09:32 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110028-04B	21110010505	10/03/11 09:32 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110028-05A	21110010506	10/03/11 11:46 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110028-05B	21110010506	10/03/11 11:46 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634

211092004 020

CLIENT: GCAL LAB
Project:
Lab Order: 1110028

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1110028-01A	21110010501	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 03:07 PM	ICMS_111011A
1110028-01B	21110010501	Aqueous	SW6860	Perchlorate - Water	48634	1	10/17/11 11:06 AM	ICMS_111014A
1110028-02A	21110010502	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 03:23 PM	ICMS_111011A
1110028-02B	21110010502	Aqueous	SW6860	Perchlorate - Water	48634	1	10/17/11 11:22 AM	ICMS_111014A
1110028-03A	21110010504	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 03:39 PM	ICMS_111011A
1110028-03B	21110010504	Aqueous	SW6860	Perchlorate - Water	48634	1	10/17/11 11:38 AM	ICMS_111014A
1110028-04A	21110010505	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 03:55 PM	ICMS_111011A
1110028-04B	21110010505	Aqueous	SW6860	Perchlorate - Water	48634	1	10/17/11 11:54 AM	ICMS_111014A
1110028-05A	21110010506	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 04:15 PM	ICMS_111011A
1110028-05B	21110010506	Aqueous	SW6860	Perchlorate - Water	48634	1	10/17/11 12:10 PM	ICMS_111014A

21105284 021

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110028

Client Sample ID: 21110010501
Lab ID: 1110028-01
Collection Date: 09/30/11 10:00 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00254	0.000495	0.00149	N	mg/L	1	10/11/11 03:07 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00321	0.000495	0.00149	N	mg/L	1	10/17/11 11:06 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21092804 622

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110028

Client Sample ID: 21110010502
Lab ID: 1110028-02
Collection Date: 09/30/11 12:36 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00270	0.000495	0.00149	N	mg/L	1	10/11/11 03:23 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00314	0.000495	0.00149	N	mg/L	1	10/17/11 11:22 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

21109280 623

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110028

Client Sample ID: 21110010504
Lab ID: 1110028-03
Collection Date: 10/03/11 08:00 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/11/11 03:39 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/17/11 11:38 AM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211092604 624

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110028

Client Sample ID: 21110010505
Lab ID: 1110028-04
Collection Date: 10/03/11 09:32 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00277	0.000495	0.00149	N	mg/L	1	10/11/11 03:55 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00278	0.000495	0.00149	N	mg/L	1	10/17/11 11:54 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

21092604 625

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110028

Client Sample ID: 21110010506
Lab ID: 1110028-05
Collection Date: 10/03/11 11:46 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00329	0.000495	0.00149	N	mg/L	1	10/11/11 04:15 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00406	0.000495	0.00149	N	mg/L	1	10/17/11 12:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

2111032804 626

CLIENT: GCAL LAB
Work Order: 1110028
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	LCS-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	LCS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 10:43 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000286	0.000300	0.000300	0	95.3	85	115			N

Sample ID:	MB-48633	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MBLK	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 11:00 AM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1110019-02AMS	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MS	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 01:44 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000721	0.000300	0.000300	0.000298	141	85	115			SN

Sample ID:	1110019-02AMSD	Batch ID:	48633		TestNo:		SW6860		Units:		mg/L
SampType:	MSD	Run ID:	ICMS_111011A		Analysis Date:		10/11/11 02:00 PM		Prep Date:		10/11/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000739	0.000300	0.000300	0.000298	147	85	115	2.48	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110320004 627

CLIENT: GCAL LAB
Work Order: 1110028
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	ICV1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	ICV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 09:39 AM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00198	0.000300	0.00200	0	98.9	85	115			N

Sample ID:	ICS1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	ICS	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 09:55 AM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000322	0.000300	0.000300	0	107	85	115			N

Sample ID:	LCVL1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 10:27 AM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000223	0.000300	0.000200	0	112	70	130			N

Sample ID:	CCV1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	CCV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 02:16 PM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00548	0.000300	0.00500	0	110	85	115			N

Sample ID:	LCVL2-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 02:48 PM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000185	0.000300	0.000200	0	92.4	70	130			N

Sample ID:	CCV2-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	CCV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 04:31 PM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00528	0.000300	0.00500	0	106	85	115			N

Sample ID:	LCVL3-111011	**Batch ID:**	R57348		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 05:04 PM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000242	0.000300	0.000200	0	121	70	130			N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110928O4 628

CLIENT: GCAL LAB
Work Order: 1110028
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	LCS-48634	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 11:39 AM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000316	0.000300	0.000300	0	105	85	115			N
Sample ID:	MB-48634	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MBLK	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 11:55 AM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU
Sample ID:	1110019-02BMS	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 12:27 PM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000720	0.000300	0.000300	0.000413	102	85	115			N
Sample ID:	1110019-02BMSD	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MSD	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 12:43 PM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000710	0.000300	0.000300	0.000413	98.9	85	115	1.40	20	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2116926604 629

CLIENT: GCAL LAB
Work Order: 1110028
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	ICV1-111014	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 09:45 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00209	0.000300	0.00200	0	104	85	115			N
Sample ID:	LCVL1-111014	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 10:34 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000241	0.000300	0.000200	0	120	70	130			N
Sample ID:	ICS1-111014	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 10:52 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000326	0.000300	0.000300	0	109	85	115			N
Sample ID:	CCV1-111014	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 04:32 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00507	0.000300	0.00500	0	101	85	115			N
Sample ID:	LCVL2-111014	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 05:21 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000243	0.000300	0.000200	0	122	70	130			N
Sample ID:	ICV1-111017	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 09:56 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00204	0.000300	0.00200	0	102	85	115			N
Sample ID:	ICS1-111017	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 10:12 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000318	0.000300	0.000300	0	106	85	115			N
Sample ID:	LCVL1-111017	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 10:44 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000218	0.000300	0.000200	0	109	70	130			N
Sample ID:	CCV1-111017	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 12:59 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00514	0.000300	0.00500	0	103	85	115			N
Sample ID:	LCVL2-111017	**Batch ID:**	R57349		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 01:32 PM			**Prep Date:**	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

211092604 630

CLIENT: GCAL LAB
Work Order: 1110028
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000219	0.000300	0.000200	0	109	70	130			N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

211032804 631

DHL Analytical

Date: 10/17/11

Lab Order: 1110028
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111011A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111011	-----	SW6860	R57348	1	10/11/11 09:39 AM	
ICS1-111011	-----	SW6860	R57348	1	10/11/11 09:55 AM	
LRB1-111011	-----	SW6860	R57348	1	10/11/11 10:11 AM	
LCVL1-111011	-----	SW6860	R57348	1	10/11/11 10:27 AM	
LCS-48633	-----	SW6860	48633	1	10/11/11 10:43 AM	10/11/11
MB-48633	-----	SW6860	48633	1	10/11/11 11:00 AM	10/11/11
1110019-02AMS	-----	SW6860	48633	1	10/11/11 01:44 PM	10/11/11
1110019-02AMSD	-----	SW6860	48633	1	10/11/11 02:00 PM	10/11/11
CCV1-111011	-----	SW6860	R57348	1	10/11/11 02:16 PM	
LRB2-111011	-----	SW6860	R57348	1	10/11/11 02:32 PM	
LCVL2-111011	-----	SW6860	R57348	1	10/11/11 02:48 PM	
1110028-01A	21110010501	SW6860	48633	1	10/11/11 03:07 PM	10/11/11
1110028-02A	21110010502	SW6860	48633	1	10/11/11 03:23 PM	10/11/11
1110028-03A	21110010504	SW6860	48633	1	10/11/11 03:39 PM	10/11/11
1110028-04A	21110010505	SW6860	48633	1	10/11/11 03:55 PM	10/11/11
1110028-05A	21110010506	SW6860	48633	1	10/11/11 04:15 PM	10/11/11
CCV2-111011	-----	SW6860	R57348	1	10/11/11 04:31 PM	
LRB3-111011	-----	SW6860	R57348	1	10/11/11 04:48 PM	
LCVL3-111011	-----	SW6860	R57348	1	10/11/11 05:04 PM	

21109264 632

DHL Analytical

Date: 10/17/11

Lab Order: 1110028
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111014A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111014	-----	SW6860	R57349	1	10/14/11 09:45 AM	
LRB1-111014	-----	SW6860	R57349	1	10/14/11 10:18 AM	
LCVL1-111014	-----	SW6860	R57349	1	10/14/11 10:34 AM	
ICS1-111014	-----	SW6860	R57349	1	10/14/11 10:52 AM	
LCS-48634	-----	SW6860	48634	1	10/14/11 11:39 AM	10/11/11
MB-48634	-----	SW6860	48634	1	10/14/11 11:55 AM	10/11/11
CCV1-111014	-----	SW6860	R57349	1	10/14/11 04:32 PM	
LRB2-111014	-----	SW6860	R57349	1	10/14/11 04:49 PM	
LCVL2-111014	-----	SW6860	R57349	1	10/14/11 05:21 PM	
ICV1-111017	-----	SW6860	R57349	1	10/17/11 09:56 AM	
ICS1-111017	-----	SW6860	R57349	1	10/17/11 10:12 AM	
LRB1-111017	-----	SW6860	R57349	1	10/17/11 10:28 AM	
LCVL1-111017	-----	SW6860	R57349	1	10/17/11 10:44 AM	
1110028-01B	21110010501	SW6860	48634	1	10/17/11 11:06 AM	10/11/11
1110028-02B	21110010502	SW6860	48634	1	10/17/11 11:22 AM	10/11/11
1110028-03B	21110010504	SW6860	48634	1	10/17/11 11:38 AM	10/11/11
1110028-04B	21110010505	SW6860	48634	1	10/17/11 11:54 AM	10/11/11
1110028-05B	21110010506	SW6860	48634	1	10/17/11 12:10 PM	10/11/11
1110019-02BMS	-----	SW6860	48634	1	10/17/11 12:27 PM	10/11/11
1110019-02BMSD	-----	SW6860	48634	1	10/17/11 12:43 PM	10/11/11
CCV1-111017	-----	SW6860	R57349	1	10/17/11 12:59 PM	
LRB2-111017	-----	SW6860	R57349	1	10/17/11 01:16 PM	
LCVL2-111017	-----	SW6860	R57349	1	10/17/11 01:32 PM	

211092604 633

DHL ANALYTICAL

October 17, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1110019

RE:

Dear Dana Merrill:

DHL Analytical received 7 sample(s) on 10/5/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1110019

Chain of Custody Record

Submitted by	Bill to
Client: Gulf Coast Analytical Labs	Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue	Address: 7979 GSRI Avenue
Baton Rouge, LA 70820	Baton Rouge, LA 70820
Contact: Dana Merrill	Contact: Dana Merrill
Phone: (225)769-4900	Phone: (225)769-4900
Fax: (225)767-5717	Fax: (225)767-5717

P.O. Number: 11-0929

Project Name/Number: 4747

Sampled By:

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860) -FILTERED	PERCHLORATE (6860) -UNFILTERED	Remarks:	Lab ID
01	W	9/27/2011	9:33		X	21109280401		2	X	X	MA01MW001	
02	W	9/27/2011	12:21		X	21109280402		2	X	X	MA01MW003	
	W	9/27/2011	12:21		X	21109280403		2	X	X	MA01MW003 MS	
	W	9/27/2011	12:21		X	21109280404		2	X	X	MA01MW003 MSD	
03	W	9/28/2011	10:28		X	21109280407		2	X	X	MA02MW001D	
04	W	9/28/2011	10:28		X	21109280408		2	X	X	FD-1	
05	W	9/29/2011	8:40		X	21109280410		2	X	X	MWQ-23	
06	W	9/29/2011	11:10		X	21109280411		2	X	X	MA01-MW004	
07	W	9/29/2011	13:06		X	21109280412		2	X	X	MA01-MW002	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days 1 week X standard other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	10/4/11	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		10/5/11	1015
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Received temp 1.7° Therm #57

Please fax results to (225)767-5717 NO Custody Seals

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

211092804 636

ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.
BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 04OCT11
ACTWGT: 48.0 LB MAN
CAD: 864080/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(612) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

WED - 05 OCT A1
PRIORITY OVERNIGHT

TRK# 0201 4932 5569 0759

78664
TX-US
AUS

A8 BSMA

Part # 156148-434 Rtr2 07/11

505C1/A013/2A47

2116923913 9S1

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 10/5/2011

Work Order Number 1110019

Received by JB

Checklist completed by: _____ 10/5/11 (Signature / Date)

Reviewed by SS 10-5-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

21103264 636

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results (DCS results can be found with the Miscellaneous Documents) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager
Scott Schroeder – Technical Director

John DuPont
Signature

10/17/11
Date

211032604 639

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter: "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

2110928694 640

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name:	Date: 10/17/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1110019

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

211092604 641

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/14/2011 9:45**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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Internal Standard Summary

Sequence Name:	**111014_CLO4**
Control Program:	**CIO4PGM_110726**
Quantif. Method:	**CIO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111014	1460.205
LRB1-111014	1618.288
LCVL1-111014	1472.384
ICS1-111014	1381.102
LCS-48634	1656.983
MB-48634	1623.653
1110019-01B	1312.267
1110019-02B	2016.793
1110019-03B	1372.407
1110019-04B	1495.062
1110019-05B	1598.631
1110019-06B	1498.546
1110019-07B	1310.633
~~1110019-02BMS~~	1529.364
~~1110019-02BMSD~~	1327.776
CCV1-111014	1359.997

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LRB2-111014	1805.107
LCVL2-111014	1367.813
ICV1-111017	2256.260
ICS1-111017	2282.900
LRB1-111017	2407.729
LCVL1-111017	2609.487
1110028-01B	2548.283
1110028-02B	2519.623
1110028-03B	2500.923
1110028-04B	1984.372
1110028-05B	1975.060
1110019-02BMS	2317.634
1110019-02BMSD	2179.053
CCV1-111017	2081.867
LRB2-111017	1974.628
LCVL2-111017	1861.640

✓

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10.17.2011

211692604 644

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**10/11/2011 9:39**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

10/12/11

10.17.2011

21169280d 645

Internal Standard Summary

Sequence Name:	**111011_CLO4**
Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Injection Volume:	**200.0**
Test:	**Perchlorate**

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-111011	1454.038
ICS1-111011	1482.960
LRB1-111011	1606.663
LCVL1-111011	1688.557
LCS-48633	1707.350
MB-48633	1737.273
1110019-01A	1775.291
1110019-02A	1945.275
1110019-05A	1309.091
1110019-06A	1263.488
1110019-07A	1065.323
1110019-03A	1319.574
1110019-04A	1109.599
1110019-02AMS	1366.148
1110019-02AMSD	1408.683
CCV1-111011	1283.561

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LRB2-111011	1717.386
LCVL2-111011	1065.523
1110028-01A	1640.164
1110028-02A	1201.143
1110028-03A	2112.916
1110028-04A	2016.670
1110028-05A	1993.853
CCV2-111011	1962.865
LRB3-111011	2262.211
LCVL3-111011	2124.478

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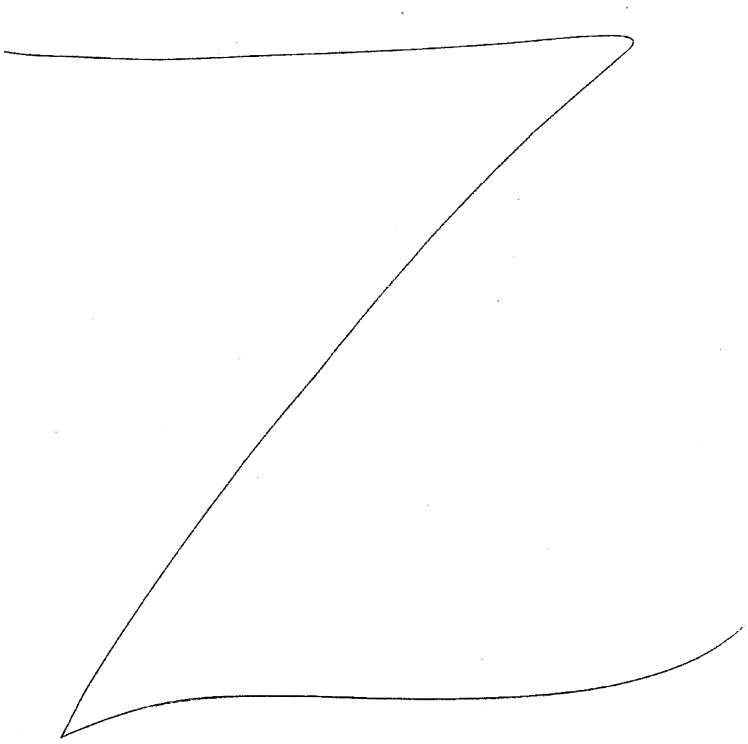

2110928004 647

DHL Analytical Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

CASE NARRATIVE

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method SW6860 - Perchlorate Analysis Total and Filtered (Parameter is ELAP Accredited but not NELAC Certified)

Exception Report R1-01

The samples were received on and log-in performed on 10/5/2011. A total of 7 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Filtered Perchlorate Analysis, batch 48633, the recovery of the Matrix Spike and Matrix Spike Duplicate (1110019-02 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS is within method control limits. No further corrective action was taken.

Exception Report R10-01

For Perchlorate Analysis, the results of total perchlorate for Sample 21109280408 were less than the results of filtered perchlorate. The difference is within the acceptable variation limits.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

This sample delivery group arrived at DHL Analytical 10/5/11.

211092604 646

DHL Analytical

Date: 10/17/11

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1110019-01	21109280401		09/27/11 09:33 AM	10/05/11
1110019-02	21109280402		09/27/11 12:21 PM	10/05/11
1110019-03	21109280407		09/28/11 10:28 AM	10/05/11
1110019-04	21109280408		09/28/11 10:28 AM	10/05/11
1110019-05	21109280410		09/29/11 08:40 AM	10/05/11
1110019-06	21109280411		09/29/11 11:10 AM	10/05/11
1110019-07	21109280412		09/29/11 01:06 PM	10/05/11

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CLIENT: GCAL LAB
Project:
Lab Order: 1110019

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1110019-01A	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-01B	21109280401	09/27/11 09:33 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-02A	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-02B	21109280402	09/27/11 12:21 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-03A	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-03B	21109280407	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-04A	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-04B	21109280408	09/28/11 10:28 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-05A	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-05B	21109280410	09/29/11 08:40 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-06A	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-06B	21109280411	09/29/11 11:10 AM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634
1110019-07A	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48633
1110019-07B	21109280412	09/29/11 01:06 PM	Aqueous	SW6860	Perchlorate Prep	10/11/11 09:21 AM	48634

211092804 650

CLIENT: GCAL LAB
Project:
Lab Order: 1110019

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1110019-01A	21109280401	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:18 AM	ICMS_111011A
1110019-01B	21109280401	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:11 PM	ICMS_111014A
1110019-02A	21109280402	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 11:34 AM	ICMS_111011A
1110019-02B	21109280402	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:27 PM	ICMS_111014A
1110019-03A	21109280407	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:11 PM	ICMS_111011A
1110019-03B	21109280407	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 12:44 PM	ICMS_111014A
1110019-04A	21109280408	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 01:27 PM	ICMS_111011A
1110019-04B	21109280408	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:00 PM	ICMS_111014A
1110019-05A	21109280410	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:23 PM	ICMS_111011A
1110019-05B	21109280410	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:16 PM	ICMS_111014A
1110019-06A	21109280411	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:39 PM	ICMS_111011A
1110019-06B	21109280411	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 01:32 PM	ICMS_111014A
1110019-07A	21109280412	Aqueous	SW6860	Perchlorate-0.2µ Field Filtered	48633	1	10/11/11 12:55 PM	ICMS_111011A
1110019-07B	21109280412	Aqueous	SW6860	Perchlorate - Water	48634	1	10/14/11 03:28 PM	ICMS_111014A

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CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280401
Lab ID: 1110019-01
Collection Date: 09/27/11 09:33 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000266	0.000100	0.000300	JN	mg/L	1	10/11/11 11:18 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000357	0.000100	0.000300	N	mg/L	1	10/14/11 12:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

21109280401 652

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280402
Lab ID: 1110019-02
Collection Date: 09/27/11 12:21 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000298	0.000100	0.000300	JN	mg/L	1	10/11/11 11:34 AM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000413	0.000100	0.000300	N	mg/L	1	10/14/11 12:27 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL
MDL	Method Detection Limit
N	Parameter not NELAC certified
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
S	Spike Recovery outside control limits

2110928004 653

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280407
Lab ID: 1110019-03
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0196	0.000495	0.00149	N	mg/L	1	10/11/11 01:11 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0238	0.000495	0.00149	N	mg/L	1	10/14/11 12:44 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

21109280A 654

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280408
Lab ID: 1110019-04
Collection Date: 09/28/11 10:28 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.0231	0.000495	0.00149	N	mg/L	1	10/11/11 01:27 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0212	0.000495	0.00149	N	mg/L	1	10/14/11 01:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

21109280404 655

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280410
Lab ID: 1110019-05
Collection Date: 09/29/11 08:40 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/11/11 12:23 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	10/14/11 01:16 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

211092804 656

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280411
Lab ID: 1110019-06
Collection Date: 09/29/11 11:10 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00353	0.000100	0.000300	N	mg/L	1	10/11/11 12:39 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00407	0.000100	0.000300	N	mg/L	1	10/14/11 01:32 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

21109280411 657

CLIENT: GCAL LAB
Project:
Project No: 4747
Lab Order: 1110019

Client Sample ID: 21109280412
Lab ID: 1110019-07
Collection Date: 09/29/11 01:06 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate-0.2µ Field Filtered		**SW6860**					**Analyst: CZ**
Perchlorate	0.00149	0.000100	0.000300	N	mg/L	1	10/11/11 12:55 PM
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.00188	0.000100	0.000300	N	mg/L	1	10/14/11 03:28 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

2110928004 656

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	LCS-48633	**Batch ID:**	48633		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	LCS	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 10:43 AM		**Prep Date:**		10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000286	0.000300	0.000300	0	95.3	85	115			N
Sample ID:	MB-48633	**Batch ID:**	48633		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MBLK	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 11:00 AM		**Prep Date:**		10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU
Sample ID:	1110019-02AMS	**Batch ID:**	48633		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MS	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 01:44 PM		**Prep Date:**		10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000721	0.000300	0.000300	0.000298	141	85	115			SN
Sample ID:	1110019-02AMSD	**Batch ID:**	48633		**TestNo:**		SW6860		**Units:**		mg/L
SampType:	MSD	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 02:00 PM		**Prep Date:**		10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000739	0.000300	0.000300	0.000298	147	85	115	2.48	20	SN

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110928004 659

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111011A

Sample ID:	ICV1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 09:39 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00198	0.000300	0.00200	0	98.9	85	115			N

Sample ID:	ICS1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	ICS	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 09:55 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000322	0.000300	0.000300	0	107	85	115			N

Sample ID:	LCVL1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 10:27 AM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000223	0.000300	0.000200	0	112	70	130			N

Sample ID:	CCV1-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 02:16 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00548	0.000300	0.00500	0	110	85	115			N

Sample ID:	LCVL2-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 02:48 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000185	0.000300	0.000200	0	92.4	70	130			N

Sample ID:	CCV2-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	CCV	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 04:31 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.00528	0.000300	0.00500	0	106	85	115			N

Sample ID:	LCVL3-111011	**Batch ID:**	R57348		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCVL	**Run ID:**	ICMS_111011A		**Analysis Date:**		10/11/11 05:04 PM			**Prep Date:**	
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000242	0.000300	0.000200	0	121	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

2110928004 660

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	LCS-48634	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	LCS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 11:39 AM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000316	0.000300	0.000300	0	105	85	115			N
Sample ID:	MB-48634	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MBLK	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/14/11 11:55 AM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000100	0.000300								NU
Sample ID:	1110019-02BMS	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MS	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 12:27 PM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000720	0.000300	0.000300	0.000413	102	85	115			N
Sample ID:	1110019-02BMSD	**Batch ID:**	48634		**TestNo:**		SW6860			**Units:**	mg/L
SampType:	MSD	**Run ID:**	ICMS_111014A		**Analysis Date:**		10/17/11 12:43 PM			**Prep Date:**	10/11/11
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Perchlorate		0.000710	0.000300	0.000300	0.00041	398.9	85	115	1.40	20	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

21109260 661

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Sample ID:	ICV1-111014	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	ICV	Run ID:	ICMS_111014A		Analysis Date:		10/14/11 09:45 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00209	0.000300	0.00200	0	104	85	115			N
Sample ID:	LCVL1-111014	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_111014A		Analysis Date:		10/14/11 10:34 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000241	0.000300	0.000200	0	120	70	130			N
Sample ID:	ICS1-111014	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	ICS	Run ID:	ICMS_111014A		Analysis Date:		10/14/11 10:52 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000326	0.000300	0.000300	0	109	85	115			N
Sample ID:	CCV1-111014	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	CCV	Run ID:	ICMS_111014A		Analysis Date:		10/14/11 04:32 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00507	0.000300	0.00500	0	101	85	115			N
Sample ID:	LCVL2-111014	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_111014A		Analysis Date:		10/14/11 05:21 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000243	0.000300	0.000200	0	122	70	130			N
Sample ID:	ICV1-111017	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	ICV	Run ID:	ICMS_111014A		Analysis Date:		10/17/11 09:56 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00204	0.000300	0.00200	0	102	85	115			N
Sample ID:	ICS1-111017	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	ICS	Run ID:	ICMS_111014A		Analysis Date:		10/17/11 10:12 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000318	0.000300	0.000300	0	106	85	115			N
Sample ID:	LCVL1-111017	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_111014A		Analysis Date:		10/17/11 10:44 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000218	0.000300	0.000200	0	109	70	130			N
Sample ID:	CCV1-111017	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	CCV	Run ID:	ICMS_111014A		Analysis Date:		10/17/11 12:59 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00514	0.000300	0.00500	0	103	85	115			N
Sample ID:	LCVL2-111017	Batch ID:	R57349		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_111014A		Analysis Date:		10/17/11 01:32 PM		Prep Date:		

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

21092804 662

CLIENT: GCAL LAB
Work Order: 1110019
Project:

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_111014A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000219	0.000300	0.000200	0	109	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

211092604 663

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111011A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111011	-----	SW6860	R57348	1	10/11/11 09:39 AM	
ICS1-111011	-----	SW6860	R57348	1	10/11/11 09:55 AM	
LCVL1-111011	-----	SW6860	R57348	1	10/11/11 10:27 AM	
LCS-48633	-----	SW6860	48633	1	10/11/11 10:43 AM	10/11/11
MB-48633	-----	SW6860	48633	1	10/11/11 11:00 AM	10/11/11
1110019-01A	21109280401	SW6860	48633	1	10/11/11 11:18 AM	10/11/11
1110019-02A	21109280402	SW6860	48633	1	10/11/11 11:34 AM	10/11/11
1110019-05A	21109280410	SW6860	48633	1	10/11/11 12:23 PM	10/11/11
1110019-06A	21109280411	SW6860	48633	1	10/11/11 12:39 PM	10/11/11
1110019-07A	21109280412	SW6860	48633	1	10/11/11 12:55 PM	10/11/11
1110019-03A	21109280407	SW6860	48633	1	10/11/11 01:11 PM	10/11/11
1110019-04A	21109280408	SW6860	48633	1	10/11/11 01:27 PM	10/11/11
1110019-02AMS	21109280402MS	SW6860	48633	1	10/11/11 01:44 PM	10/11/11
1110019-02AMSD	21109280402MSD	SW6860	48633	1	10/11/11 02:00 PM	10/11/11
CCV1-111011	-----	SW6860	R57348	1	10/11/11 02:16 PM	
LCVL2-111011	-----	SW6860	R57348	1	10/11/11 02:48 PM	
CCV2-111011	-----	SW6860	R57348	1	10/11/11 04:31 PM	
LCVL3-111011	-----	SW6860	R57348	1	10/11/11 05:04 PM	

2110032804 664

DHL Analytical

Date: 10/17/11

Lab Order: 1110019
Client: GCAL LAB
Project:

Sequence Report

Run ID: ICMS_111014A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-111014	-----	SW6860	R57349	1	10/14/11 09:45 AM	
LCVL1-111014	-----	SW6860	R57349	1	10/14/11 10:34 AM	
ICS1-111014	-----	SW6860	R57349	1	10/14/11 10:52 AM	
LCS-48634	-----	SW6860	48634	1	10/14/11 11:39 AM	10/11/11
MB-48634	-----	SW6860	48634	1	10/14/11 11:55 AM	10/11/11
1110019-01B	21109280401	SW6860	48634	1	10/14/11 12:11 PM	10/11/11
1110019-02B	21109280402	SW6860	48634	1	10/14/11 12:27 PM	10/11/11
1110019-03B	21109280407	SW6860	48634	1	10/14/11 12:44 PM	10/11/11
1110019-04B	21109280408	SW6860	48634	1	10/14/11 01:00 PM	10/11/11
1110019-05B	21109280410	SW6860	48634	1	10/14/11 01:16 PM	10/11/11
1110019-06B	21109280411	SW6860	48634	1	10/14/11 01:32 PM	10/11/11
1110019-07B	21109280412	SW6860	48634	1	10/14/11 03:28 PM	10/11/11
CCV1-111014	-----	SW6860	R57349	1	10/14/11 04:32 PM	
LCVL2-111014	-----	SW6860	R57349	1	10/14/11 05:21 PM	
ICV1-111017	-----	SW6860	R57349	1	10/17/11 09:56 AM	
ICS1-111017	-----	SW6860	R57349	1	10/17/11 10:12 AM	
LCVL1-111017	-----	SW6860	R57349	1	10/17/11 10:44 AM	
1110019-02BMS	21109280402MS	SW6860	48634	1	10/17/11 12:27 PM	10/11/11
1110019-02BMSD	21109280402MSD	SW6860	48634	1	10/17/11 12:43 PM	10/11/11
CCV1-111017	-----	SW6860	R57349	1	10/17/11 12:59 PM	
LCVL2-111017	-----	SW6860	R57349	1	10/17/11 01:32 PM	

21109280A 665

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1110019

Chain of Custody Record

Submitted by	Bill to
Client: Gulf Coast Analytical Labs	Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue	Address: 7979 GSRI Avenue
Baton Rouge, LA 70820	Baton Rouge, LA 70820
Contact: Dana Merrill	Contact: Dana Merrill
Phone: (225)769-4900	Phone: (225)769-4900
Fax: (225)767-5717	Fax: (225)767-5717

P.O. Number: 11-0929

Project Name/Number: 4747

Sampled By:

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Pre-servatives	No. Containers	PERCHLORATE (6860) -FILTERED	PERCHLORATE (6860) -UNFILTERED	Remarks:	Lab ID
01	W	9/27/2011	9:33		X	21109280401		2	X	X	MA01MW001	
02	W	9/27/2011	12:21		X	21109280402		2	X	X	MA01MW003	
	W	9/27/2011	12:21		X	21109280403		2	X	X	MA01MW003 MS	
	W	9/27/2011	12:21		X	21109280404		2	X	X	MA01MW003 MSD	
03	W	9/28/2011	10:28		X	21109280407		2	X	X	MA02MW001D	
04	W	9/28/2011	10:28		X	21109280408		2	X	X	FD-1	
05	W	9/29/2011	8:40		X	21109280410		2	X	X	MWQ-23	
06	W	9/29/2011	11:10		X	21109280411		2	X	X	MA01-MW004	
07	W	9/29/2011	13:06		X	21109280412		2	X	X	MA01-MW002	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEX	10/4/11	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		10/5/11	1015
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Received temp 1.7°
Therm #57
Please fax results to (225)767-5717 NO Custody Seals
PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

2110280412 999

DHL Analytical

WORK ORDER Summary

Client ID: GCAL LAB

06-Oct-11

Project Name:

Work Order: 1110019

Client Proj #: 4747

State Code: TD

QC Level: NELAC-DoD

Comments: Use TD State Code; EDD needed ?????ERPIMS 4, Scott or Chris will need to generate CLP-like form for Calibration summa

Sample ID	Client Sample ID	Collection Date	Rcv Date	Due	Matrix	Test Code	R	MS	SEL	Storage	SA	Bottle	#
1110019-01A	21109280401	09/27/11 09:33 AM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-01B		09/27/11 09:33 AM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-02A	21109280402 1 - 100 plastic and 2 500 plastic	09/27/11 12:21 PM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☑	☐	Frig#3	N	100HDPE	3
1110019-02B		09/27/11 12:21 PM	10/05/11	10/19/11	Aqueous	6860_W	☐	☑	☐	Frig#3	N	100HDPE	3
1110019-03A	21109280407	09/28/11 10:28 AM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-03B		09/28/11 10:28 AM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-04A	21109280408	09/28/11 10:28 AM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-04B		09/28/11 10:28 AM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-05A	21109280410	09/29/11 08:40 AM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-05B		09/29/11 08:40 AM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-06A	21109280411	09/29/11 11:10 AM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-06B		09/29/11 11:10 AM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-07A	21109280412	09/29/11 01:06 PM	10/05/11	10/19/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110019-07B		09/29/11 01:06 PM	10/05/11	10/19/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1

199 F69756TT2

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 10/5/2011

Work Order Number 1110019

Received by JB

Checklist completed by: [signature] 10/5/11 (Signature / Date)

Reviewed by SS 10-5-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

2110926004 666

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

Chain of Custody Record

#111008

Submitted by	Bill to
Client: Gulf Coast Analytical Labs	Client: Gulf Coast Analytical Labs
Address: 7979 GSRI Avenue	Address: 7979 GSRI Avenue
Baton Rouge, LA 70820	Baton Rouge, LA 70820
Contact: Dana Merrill	Contact: Dana Merrill
Phone: (225)769-4900	Phone: (225)769-4900
Fax: (225)767-5717	Fax: (225)767-5717

P.O. Number: 11-0928

Project Name/Number: 4747

Sampled By:

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860) -FILTERED	PERCHLORATE (6860) -UNFILTERED	Remarks:	Lab ID
W	9/30/2011	10:00		X	21110010501		2	X	X	M114MW004	
W	9/30/2011	12:36		X	21110010502		2	X	X	M114MW001	
W	10/3/2011	8:00		X	21110010504		2	X	X	EB-1	
W	10/3/2011	9:32		X	21110010505		2	X	X	M114MW002	
W	10/3/2011	11:46		X	21110010506		2	X	X	M114MW003	

10/5/11
0801
0902
1003
1104
1205

Turn Around Time: ___ 24 - 48 hrs ___ 3 days 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	10/4/11	1700
		10/5/11	1015

Notes: Receiving temp 0.7° No custody seals

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

599-19356-1

DHL Analytical

WORK ORDER Summary

Client ID: GCAL LAB

06-Oct-11

Project Name:

Work Order: 1110028

Client Proj #: 4747

State Code: TD

QC Level: NELAC-DoD

Comments: Use TD State Code; EDD needed ?????ERPIMS 4, Scott or Chris will need to generate CLP-like form for Calibration summa

Sample ID	Client Sample ID	Collection Date	Rcv Date	Due	Matrix	Test Code	R	MS	SEL	Storage	SA	Bottle	#
1110028-01A	21110010501	09/30/11 10:00 AM	10/05/11	10/12/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-01B		09/30/11 10:00 AM	10/05/11	10/12/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-02A	21110010502	09/30/11 12:36 PM	10/05/11	10/12/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-02B		09/30/11 12:36 PM	10/05/11	10/12/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-03A	21110010504	10/03/11 08:00 AM	10/05/11	10/12/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-03B		10/03/11 08:00 AM	10/05/11	10/12/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-04A	21110010505	10/03/11 09:32 AM	10/05/11	10/12/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-04B		10/03/11 09:32 AM	10/05/11	10/12/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-05A	21110010506	10/03/11 11:46 AM	10/05/11	10/12/11	Aqueous	6860_W_FIL	☐	☐	☐	Frig#3	N	100HDPE	1
1110028-05B		10/03/11 11:46 AM	10/05/11	10/12/11	Aqueous	6860_W	☐	☐	☐	Frig#3	N	100HDPE	1

SLG 1102811T2

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 10/5/2011

Work Order Number 1110028

Received by JB

Checklist completed by: 10/5/11
Signature Date

Reviewed by SS 10-5-11
Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	1.7 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

2110928004 671

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	10/5/11

Report to:
Client: Trinity Analysis & Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260 B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196 A)	EC/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012 A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1201		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 795540814998		9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hex chrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	

Report to:
Client: Trinity Analysis & Development Corp
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 833 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal: used ☐ yes ☐ no; intact ☐ yes ☐ no
Temperature °C: 4.4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 10-204	Remarks:	Lab ID
W	9/28/11	1028		X	MA02 MW0010		13	X	X	X	X	X	X	X	X	X	X		7
W	9/28/11	1028		X	FD-1		13	X	X	X	X	X	X	X	X	X	X		8
W	9/28/11	1028			TB-2		3	X											9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) FedEx	Received by: (Signature)	Date: 9-29-11	Time: 915
Relinquished by: (Signature) 8735 5991 2891	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Cr VI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only - Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804	10/7/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	Alk/TDS	Cyanide (NaOH) 9014	Remarks	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X											13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
FedEx	[signature]	9/30/11	0915
8735 5991 2880			

Note: * Hex Chrome 24 hr hold time *

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~211100105~~ Hall	10/7/11

Report to:
Client: Trinity ADC
Address: 1007 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 8506186088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no CS
Temperature °C 1.9, 5.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (Lab)	Metals (Diss) (Lab)	Perchlorate (Lab)	Perchlorate (Orig)	Hex Chrome (Lab)	CL/SO4/NO3 (Lab)	ALK / TDS	Cyanide (Lab)	Remarks:	Lab ID
W	9/30/11	1000		X	M114 MW004		19	X	X	X	X	X	X	X	X	X	X	211100105-	1
W	9/30/11	1236		X	M114 MW061		13	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1000			TB-5		1	X											3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	9/30/11	1500
FedEx		10/1/11	900
8716R 2160 4454	~~4975 7584 2414~~ CS		

Note: * 24-hour hold on Hex Chrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

CLIENT HAZCAT?

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092804 Hmk

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~211000105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Parkway, Shalimar FL 32579
Contact: Jonathon Kramer
Phone: 850 613 ~~7000~~ 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual

Sampled By: Ben Stewart, Jonathon Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (Wet Ch)	Remarks: 211000105	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X		4
W	10/3/11	0932		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X		5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X		6
W	10/3/11	0800		X	TB-6		3	X											7

Lab use only:
Custody Seal: used ☐ yes ☐ no; intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	10/3/11	1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 8735 5991 2870	[signature]	10/4/11	900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hr hold time on Hex Chrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

8.19.11 MW2GAT17

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2891, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870

Southeast ACCUTEST LABORATORIES

10/25/11

Technical Report for

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Accutest Job Number: F86441

Sampling Date: 09/28/11

Report to:

Trinity Analysis & Development Corp
1002 North Eglin Parkway
Shalimar, FL 32579
jkramer@trinityadc.com; jbrown@trinityadc.com

ATTN: Jonathan Kramer

Total number of pages in report: **158**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

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Accutest Laboratories

Sample Summary

Trinity Analysis & Development Corp

Melrose Air Force Range, NM

Job No: F86441

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F86441-1	09/28/11	10:28	MHBS	09/29/11	AQ	Ground Water	MA02 MW001D
F86441-1F	09/28/11	10:28	MHBS	09/29/11	AQ	Groundwater Filtered	MA02 MW001D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Trinity Analysis & Development Corp **Job** F86441

Site: Melrose Air Force Range, NM **Report Date** 10/20/2011 11:28:05

1 Sample was collected on 09/28/2011 and was received at Accutest SE on 09/29/2011 properly preserved, at 2.6 Deg. C and intact. The Sample received an Accutest job number of F86441. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VZ2

All samples were analyzed within the recommended method holding time.

Sample(s) F86441-1MS, F86441-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Bromoform, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Bromoform, cis-1,3-Dichloropropene, Styrene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Styrene is outside control limits for sample F86441-1MSD. Probable cause due to sample non-homogeneity.

F86441-1 for Acetone: ICV outside of control limits.

Extractables by GC by Method SW846 8330A

Matrix: AQ **Batch ID:** OP38919

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86582-1MS, F86582-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for o-Nitrotoluene is outside control limits.

Matrix Spike Recovery(s) for 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene, are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,3,5-Trinitrobenzene, 4-amino-2,6-Dinitrotoluene, Nitrobenzene are outside control limits. Probable cause due to matrix interference.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, 2,4,6-Trinitrotoluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for HMX, Tetryl are outside control limits for sample OP38919-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP38919-MS, OP38919-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP38919-MS for 3,4-Dinitrotoluene: Outside control limits due to dilution.

OP38919-MSD for 3,4-Dinitrotoluene: Outside control limits due to dilution.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86391-1MS, F86391-1MSD, F86391-1PS, F86391-1SDL, F86391-1DUP were used as the QC samples for metals.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP21456

RPD(s) for Duplicate for Arsenic is outside control limits for sample MP21456-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Chromium, Iron, Sodium are outside control limits for sample MP21456-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP21456-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals by Method SW846 7470A

Matrix: AQ **Batch ID:** MP21488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86645-15MS, F86645-15MSD, F86645-15SDL, F86645-22SDL, F86645-15DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury is outside control limits for sample MP21488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury is outside control limits for sample MP21488-SDL2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry by Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP17827

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP, F86429-12MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

Matrix Spike Recovery(s) for Nitrogen, Nitrite, Sulfate are outside control limits. Spike recovery indicates possible matrix interference.

Matrix Spike Recovery(s) for Nitrogen, Nitrate is outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

F86441-1 for Nitrogen, Nitrite: Dilution required due to matrix interference.

Wet Chemistry by Method EPA 335.4/SW 9012B

Matrix: AQ **Batch ID:** GP17839

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86417-1DUP, F86417-1MS were used as the QC samples for Cyanide, Total.

Matrix Spike Recovery(s) for Cyanide, Total is outside control limits. Probable cause due to matrix interference.

GP17839-S1 for Cyanide, Total: Spike recovery outside of acceptable QC criteria.

Wet Chemistry by Method SM19 2320B

Matrix: AQ **Batch ID:** GN46685

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86547-3DUP, F86547-3MS, F86547-3MSD were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry by Method SM19 2540C

Matrix: AQ **Batch ID:** GN46629

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F86429-12DUP was used as the QC sample for Solids, Total Dissolved.

Wet Chemistry by Method SW846 7196A

Matrix: AQ **Batch ID:** GN46565

All method blanks for this batch meet method specific criteria.

Sample(s) F86441-1DUP, F86441-1MS were used as the QC samples for Chromium, Hexavalent.

The following samples were run outside of holding time for method SW846 7196A: F86441-1. Sample received near the end of hold time. Analyzed as soon as possible.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 20, 2011

Ellen Pampel, Inorganic QA (signature on file)

Thursday, October 20, 2011

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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49 Manual Integrations were found for F86441

Thursday, October 20, 2011

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MA02 MW001D
Lab Sample ID: F86441-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Melrose Air Force Range, NM

Date Sampled: 09/28/11
Date Received: 09/29/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z51.D	1	10/12/11	KW	n/a	n/a	VZ2
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	14.9	25	10	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Melrose Air Force Range, NM		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

(a) ICV outside of control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MA02 MW001D
Lab Sample ID: F86441-1
Matrix: AQ - Ground Water
Method: SW846 8330A SW846 3535A
Project: Melrose Air Force Range, NM

Date Sampled: 09/28/11
Date Received: 09/29/11
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB029646.D	1	10/06/11	SL	10/05/11	OP38919	GBB651
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.19	0.077	ug/l	
121-82-4	RDX	ND	0.19	0.077	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.19	0.093	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.19	0.077	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.19	0.077	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.19	0.079	ug/l	
98-95-3	Nitrobenzene	ND	0.19	0.081	ug/l	
88-72-2	o-Nitrotoluene	ND	0.19	0.077	ug/l	
99-08-1	m-Nitrotoluene	ND	0.19	0.077	ug/l	
99-99-0	p-Nitrotoluene	ND	0.19	0.077	ug/l	
479-45-8	Tetryl	ND	0.19	0.077	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.19	0.077	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.19	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	96%		70-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MA02 MW001D
Lab Sample ID: F86441-1
Matrix: AQ - Ground Water
Project: Melrose Air Force Range, NM

Date Sampled: 09/28/11
Date Received: 09/29/11
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	113000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	66100	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	221	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	138	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1880000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	280	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MA02 MW001D		
Lab Sample ID:	F86441-1	**Date Sampled:**	09/28/11
Matrix:	AQ - Ground Water	**Date Received:**	09/29/11
		Percent Solids:	n/a
Project:	Melrose Air Force Range, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	139	5.0	mg/l	1	10/08/11	GR	SM19 2320B
Chloride	1940	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Chromium, Hexavalent [a]	< 0.010	0.010	mg/l	1	09/29/11 15:00	TC	SW846 7196A
Cyanide, Total	< 0.010	0.010	mg/l	1	10/05/11 14:42	AR	EPA 335.4/SW 9012B
Nitrogen, Nitrate	17.9	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Nitrogen, Nitrite [b]	< 5.0	5.0	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A
Solids, Total Dissolved	3770	1000	mg/l	10	10/04/11	LE	SM19 2540C
Sulfate	1730	100	mg/l	50	09/30/11 01:32	TC	EPA 300/SW846 9056A

(a) Sample received near the end of hold time. Analyzed as soon as possible.
(b) Dilution required due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID: MA02 MW001D
Lab Sample ID: F86441-1F
Matrix: AQ - Groundwater Filtered
Project: Melrose Air Force Range, NM

Date Sampled: 09/28/11
Date Received: 09/29/11
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Calcium	107000	1000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Iron	< 300	300	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Magnesium	63300	5000	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Manganese	182	15	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Mercury	< 1.0	1.0	ug/l	1	10/12/11	10/12/11	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	< 40	40	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Selenium	136	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Sodium	1780000	500000	ug/l	50	10/07/11	10/10/11	RS	SW846 6010C [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]
Zinc	265	20	ug/l	1	10/07/11	10/07/11	RS	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA9264
(2) Instrument QC Batch: MA9267
(3) Instrument QC Batch: MA9273
(4) Prep QC Batch: MP21456
(5) Prep QC Batch: MP21488

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

F86441

Accutest JOB # PAGE_____OF_____

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name
Address
City State Zip
Project Contact E-mail
Phone#
Sampler(s) Name(s) (Printed)

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION OTHER	NONE	HCl	H2SO4	HNO3	NaOH	NaOH-ZnAc	DI WATER	MeOH
1															

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1		2 FX	3 FX 9-29-11	0900	4 K Wilbur 9-29-11 0900
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.6

4.1 4

F86441: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F86441 CLIENT: Trinity PROJECT: Melrose AFB

DATE/TIME RECEIVED: 9-29-11 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8767 0743 1515

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [✓] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [✓] TRIP BLANK NOT ON COC
- [✓] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [✓] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [signature] 9-29-11 REVIEWER SIGNATURE/DATE: [signature] 09/29/11

NF 12/10

receipt confirmation 122910.xls

F86441: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2-MB	Z41.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

Method Blank Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2-MB	Z41.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	107%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

Blank Spike Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2-BS	Z40.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	85.5	68	59-134
71-43-2	Benzene	25	24.6	98	83-124
75-27-4	Bromodichloromethane	25	25.4	102	76-116
75-25-2	Bromoform	25	20.4	82	68-128
108-90-7	Chlorobenzene	25	26.4	106	87-115
75-00-3	Chloroethane	25	32.6	130	54-166
67-66-3	Chloroform	25	26.3	105	85-123
75-15-0	Carbon disulfide	25	25.9	104	67-147
56-23-5	Carbon tetrachloride	25	24.4	98	74-139
75-34-3	1,1-Dichloroethane	25	27.4	110	82-127
75-35-4	1,1-Dichloroethylene	25	28.2	113	75-133
107-06-2	1,2-Dichloroethane	25	26.2	105	76-122
78-87-5	1,2-Dichloropropane	25	27.2	109	81-120
124-48-1	Dibromochloromethane	25	24.1	96	74-116
156-59-2	cis-1,2-Dichloroethylene	25	24.8	99	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	83-119
156-60-5	trans-1,2-Dichloroethylene	25	27.4	110	82-126
10061-02-6	trans-1,3-Dichloropropene	25	28.8	115	87-123
100-41-4	Ethylbenzene	25	25.5	102	87-118
591-78-6	2-Hexanone	125	110	88	58-125
108-10-1	4-Methyl-2-pentanone	125	123	98	62-125
74-83-9	Methyl bromide	25	30.0	120	55-151
74-87-3	Methyl chloride	25	28.0	112	55-173
75-09-2	Methylene chloride	25	25.1	100	69-125
78-93-3	Methyl ethyl ketone	125	148	118	61-127
100-42-5	Styrene	25	23.0	92	78-118
71-55-6	1,1,1-Trichloroethane	25	27.9	112	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	71-120
79-00-5	1,1,2-Trichloroethane	25	25.2	101	80-114
127-18-4	Tetrachloroethylene	25	26.2	105	80-131
108-88-3	Toluene	25	27.4	110	86-116
79-01-6	Trichloroethylene	25	27.2	109	85-124
75-01-4	Vinyl chloride	25	31.8	127	57-153
1330-20-7	Xylene (total)	75	74.4	99	86-120

Blank Spike Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ2-BS	Z40.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	96%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F86441-1MS	Z63.D	1	10/12/11	KW	n/a	n/a	VZ2
F86441-1MSD	Z64.D	1	10/12/11	KW	n/a	n/a	VZ2
F86441-1	Z51.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Compound	F86441-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	14.9	J	125	152	110	159	115	5	59-134/14
71-43-2	Benzene	ND		25	23.2	93	22.7	91	2	83-124/11
75-27-4	Bromodichloromethane	ND		25	23.1	92	21.4	86	8	76-116/10
75-25-2	Bromoform	ND		25	16.4	66*	15.7	63*	4	68-128/11
108-90-7	Chlorobenzene	ND		25	24.6	98	24.3	97	1	87-115/9
75-00-3	Chloroethane	ND		25	27.5	110	27.5	110	0	54-166/20
67-66-3	Chloroform	ND		25	24.8	99	24.4	98	2	85-123/10
75-15-0	Carbon disulfide	ND		25	17.2	69	16.8	67	2	67-147/12
56-23-5	Carbon tetrachloride	ND		25	21.8	87	20.4	82	7	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	25.9	104	25.4	102	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	26.5	106	26.9	108	1	75-133/13
107-06-2	1,2-Dichloroethane	ND		25	24.8	99	24.5	98	1	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	26.0	104	25.1	100	4	81-120/11
124-48-1	Dibromochloromethane	ND		25	21.2	85	19.3	77	9	74-116/11
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.5	94	23.2	93	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	18.6	74*	17.0	68*	9	83-119/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.2	105	25.0	100	5	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.9	100	23.2	93	7	87-123/10
100-41-4	Ethylbenzene	ND		25	23.7	95	23.6	94	0	87-118/10
591-78-6	2-Hexanone	ND		125	154	123	159	127*	3	58-125/14
108-10-1	4-Methyl-2-pentanone	ND		125	141	113	144	115	2	62-125/13
74-83-9	Methyl bromide	ND		25	26.8	107	26.5	106	1	55-151/21
74-87-3	Methyl chloride	ND		25	25.1	100	25.2	101	0	55-173/22
75-09-2	Methylene chloride	ND		25	23.2	93	23.2	93	0	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	108	86	109	87	1	61-127/13
100-42-5	Styrene	ND		25	20.8	83	18.1	72*	14*	78-118/11
71-55-6	1,1,1-Trichloroethane	ND		25	25.1	100	24.3	97	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.8	103	26.2	105	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	24.9	100	24.5	98	2	80-114/11
127-18-4	Tetrachloroethylene	ND		25	24.3	97	23.3	93	4	80-131/12
108-88-3	Toluene	ND		25	25.1	100	24.9	100	1	86-116/10
79-01-6	Trichloroethylene	ND		25	25.0	100	24.0	96	4	85-124/10
75-01-4	Vinyl chloride	ND		25	28.5	114	28.2	113	1	57-153/22
1330-20-7	Xylene (total)	ND		75	68.2	91	67.1	89	2	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F86441-1MS	Z63.D	1	10/12/11	KW	n/a	n/a	VZ2
F86441-1MSD	Z64.D	1	10/12/11	KW	n/a	n/a	VZ2
F86441-1	Z51.D	1	10/12/11	KW	n/a	n/a	VZ2

The QC reported here applies to the following samples: **Method:** SW846 8260B

F86441-1

CAS No.	Surrogate Recoveries	MS	MSD	F86441-1	Limits
1868-53-7	Dibromofluoromethane	94%	95%	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	103%	76-127%
2037-26-5	Toluene-D8	99%	98%	104%	86-112%
460-00-4	4-Bromofluorobenzene	95%	94%	98%	84-120%

Instrument Performance Check (BFB)

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample:	VZ1-BFB	**Injection Date:**	10/11/11
Lab File ID:	Z04.D	**Injection Time:**	11:38
Instrument ID:	GCMSZ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	41853	16.3		Pass
75	30.0 - 60.0% of mass 95	123112	47.8		Pass
95	Base peak, 100% relative abundance	257379	100.0		Pass
96	5.0 - 9.0% of mass 95	16899	6.57		Pass
173	Less than 2.0% of mass 174	1383	0.54	(0.59) [a]	Pass
174	50.0 - 100.0% of mass 95	233941	90.9		Pass
175	5.0 - 9.0% of mass 174	16767	6.51	(7.17) [a]	Pass
176	95.0 - 101.0% of mass 174	230955	89.7	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	14434	5.61	(6.25) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ1-IC1	Z05.D	10/11/11	11:59	00:21	Initial cal 1
VZ1-IC1	Z06.D	10/11/11	12:20	00:42	Initial cal 2
VZ1-IC1	Z07.D	10/11/11	12:41	01:03	Initial cal 3
VZ1-ICC1	Z08.D	10/11/11	13:03	01:25	Initial cal 4
VZ1-IC1	Z09.D	10/11/11	13:24	01:46	Initial cal 5
VZ1-IC1	Z10.D	10/11/11	13:45	02:07	Initial cal 6
VZ1-ICV1	Z12.D	10/11/11	14:46	03:08	Initial cal verification 4
VZ1-BS	Z13.D	10/11/11	15:09	03:31	Blank Spike
VZ1-MB	Z14.D	10/11/11	15:30	03:52	Method Blank
ZZZZZZ	Z15.D	10/11/11	15:52	04:14	(unrelated sample)
ZZZZZZ	Z16.D	10/11/11	16:13	04:35	(unrelated sample)
ZZZZZZ	Z17.D	10/11/11	16:34	04:56	(unrelated sample)
ZZZZZZ	Z18.D	10/11/11	16:55	05:17	(unrelated sample)
ZZZZZZ	Z19.D	10/11/11	17:16	05:38	(unrelated sample)
ZZZZZZ	Z20.D	10/11/11	17:37	05:59	(unrelated sample)
F86531-2	Z21.D	10/11/11	17:58	06:20	(used for QC only; not part of job F86441)
ZZZZZZ	Z22.D	10/11/11	18:19	06:41	(unrelated sample)
ZZZZZZ	Z23.D	10/11/11	18:40	07:02	(unrelated sample)
ZZZZZZ	Z24.D	10/11/11	19:02	07:24	(unrelated sample)
ZZZZZZ	Z25.D	10/11/11	19:22	07:44	(unrelated sample)
ZZZZZZ	Z26.D	10/11/11	19:43	08:05	(unrelated sample)
ZZZZZZ	Z27.D	10/11/11	20:05	08:27	(unrelated sample)
ZZZZZZ	Z29.D	10/11/11	20:47	09:09	(unrelated sample)
ZZZZZZ	Z30.D	10/11/11	21:08	09:30	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample:	VZ1-BFB	**Injection Date:**	10/11/11
Lab File ID:	Z04.D	**Injection Time:**	11:38
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z31.D	10/11/11	21:28	09:50	(unrelated sample)
ZZZZZZ	Z32.D	10/11/11	21:49	10:11	(unrelated sample)
ZZZZZZ	Z33.D	10/11/11	22:11	10:33	(unrelated sample)
ZZZZZZ	Z34.D	10/11/11	22:32	10:54	(unrelated sample)
F86531-2MS	Z35.D	10/11/11	22:53	11:15	Matrix Spike
F86531-2MSD	Z36.D	10/11/11	23:13	11:35	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: VZ2-BFB
Lab File ID: Z38.D
Instrument ID: GCMSZ
Injection Date: 10/12/11
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	34435	18.0		Pass
75	30.0 - 60.0% of mass 95	95451	49.9		Pass
95	Base peak, 100% relative abundance	191189	100.0		Pass
96	5.0 - 9.0% of mass 95	13285	6.95		Pass
173	Less than 2.0% of mass 174	1092	0.57	(0.67) [a]	Pass
174	50.0 - 100.0% of mass 95	163987	85.8		Pass
175	5.0 - 9.0% of mass 174	11617	6.08	(7.08) [a]	Pass
176	95.0 - 101.0% of mass 174	162192	84.8	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	10785	5.64	(6.65) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ2-CC1	Z39.D	10/12/11	09:35	00:22	Continuing cal 4
VZ2-BS	Z40.D	10/12/11	09:58	00:45	Blank Spike
VZ2-MB	Z41.D	10/12/11	10:19	01:06	Method Blank
ZZZZZZ	Z42.D	10/12/11	10:45	01:32	(unrelated sample)
ZZZZZZ	Z43.D	10/12/11	11:06	01:53	(unrelated sample)
ZZZZZZ	Z44.D	10/12/11	11:27	02:14	(unrelated sample)
ZZZZZZ	Z45.D	10/12/11	11:48	02:35	(unrelated sample)
ZZZZZZ	Z46.D	10/12/11	12:09	02:56	(unrelated sample)
ZZZZZZ	Z47.D	10/12/11	12:31	03:18	(unrelated sample)
ZZZZZZ	Z48.D	10/12/11	12:52	03:39	(unrelated sample)
ZZZZZZ	Z49.D	10/12/11	13:12	03:59	(unrelated sample)
ZZZZZZ	Z50.D	10/12/11	13:33	04:20	(unrelated sample)
F86441-1	Z51.D	10/12/11	13:54	04:41	MA02 MW001D
ZZZZZZ	Z52.D	10/12/11	14:15	05:02	(unrelated sample)
ZZZZZZ	Z53.D	10/12/11	14:41	05:28	(unrelated sample)
ZZZZZZ	Z54.D	10/12/11	15:02	05:49	(unrelated sample)
ZZZZZZ	Z55.D	10/12/11	15:23	06:10	(unrelated sample)
ZZZZZZ	Z56.D	10/12/11	15:44	06:31	(unrelated sample)
ZZZZZZ	Z57.D	10/12/11	16:05	06:52	(unrelated sample)
ZZZZZZ	Z58.D	10/12/11	16:26	07:13	(unrelated sample)
ZZZZZZ	Z59.D	10/12/11	16:47	07:34	(unrelated sample)
ZZZZZZ	Z60.D	10/12/11	17:08	07:55	(unrelated sample)
ZZZZZZ	Z61.D	10/12/11	17:29	08:16	(unrelated sample)
F86441-1MS	Z63.D	10/12/11	18:11	08:58	Matrix Spike

Instrument Performance Check (BFB)

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample:	VZ2-BFB	**Injection Date:**	10/12/11
Lab File ID:	Z38.D	**Injection Time:**	09:13
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F86441-1MSD	Z64.D	10/12/11	18:32	09:19	Matrix Spike Duplicate
ZZZZZZ	Z65.D	10/12/11	18:53	09:40	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	VZ2-CC1	**Injection Date:**	10/12/11
Lab File ID:	Z39.D	**Injection Time:**	09:35
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1108785	7.88	850724	10.98	484320	13.34	112545	5.38
Check Std [b]	899481	7.87	701457	10.98	400604	13.34	83051	5.37
Upper Limit [c]	1798962	8.37	1402914	11.48	801208	13.84	166102	5.87
Lower Limit [d]	449741	7.37	350729	10.48	200302	12.84	41526	4.87

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VZ2-BS	907419	7.87	675408	10.98	389031	13.34	79550	5.37
VZ2-MB	825425	7.87	577451	10.97	320276	13.34	73807	5.38
ZZZZZZ	831988	7.87	586747	10.98	327523	13.34	70810	5.37
ZZZZZZ	817348	7.87	604131	10.98	320962	13.34	71750	5.38
ZZZZZZ	809065	7.87	572520	10.98	323325	13.34	67860	5.37
ZZZZZZ	815276	7.88	569202	10.98	313025	13.34	67364	5.38
ZZZZZZ	817667	7.87	571362	10.97	309466	13.34	72528	5.38
ZZZZZZ	793892	7.87	565746	10.98	311354	13.34	70563	5.36
ZZZZZZ	789464	7.87	566116	10.97	303716	13.34	71796	5.37
ZZZZZZ	787465	7.88	563310	10.98	310297	13.34	73724	5.38
ZZZZZZ	776341	7.87	562552	10.98	306010	13.34	72325	5.37
F86441-1	770378	7.88	551129	10.98	297823	13.34	78996	5.37
ZZZZZZ	759811	7.88	526275	10.98	285725	13.34	77914	5.38
ZZZZZZ	781805	7.88	540585	10.98	293922	13.34	90935	5.38
ZZZZZZ	763922	7.88	525535	10.98	293281	13.34	69350	5.38
ZZZZZZ	754513	7.87	531024	10.97	289267	13.34	75066	5.37
ZZZZZZ	767069	7.88	526424	10.98	287228	13.34	75906	5.38
ZZZZZZ	771146	7.88	533294	10.97	293773	13.34	79597	5.38
ZZZZZZ	757392	7.87	528589	10.97	287126	13.34	70513	5.38
ZZZZZZ	800181	7.88	547532	10.98	297172	13.34	75553	5.38
ZZZZZZ	784296	7.87	549224	10.97	300807	13.34	79164	5.37
ZZZZZZ	831807	7.88	619763	10.98	350641	13.34	82102	5.38
F86441-1MS	922352	7.88	680037	10.98	391228	13.34	93475	5.38
F86441-1MSD	946846	7.87	690268	10.98	397759	13.34	95741	5.38
ZZZZZZ	850635	7.87	597725	10.98	321632	13.34	83666	5.37

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VZ1-ICC1 Z08.D 10/11/11 13:03
(b) Check Std Limit = -50 to + 100% of initial cal area.

Volatile Internal Standard Area Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	VZ2-CC1	**Injection Date:**	10/12/11
Lab File ID:	Z39.D	**Injection Time:**	09:35
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F86441-1	Z51.D	93.0	103.0	104.0	98.0
F86441-1MS	Z63.D	94.0	105.0	99.0	95.0
F86441-1MSD	Z64.D	95.0	104.0	98.0	94.0
VZ2-BS	Z40.D	93.0	102.0	100.0	96.0
VZ2-MB	Z41.D	94.0	102.0	107.0	99.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	87-116%
S2 = 1,2-Dichloroethane-D4	76-127%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	84-120%

Initial Calibration Summary

Job Number: F86441 **Sample:** VZ1-ICC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z08.D
Project: Melrose Air Force Range, NM

Response Factor Report MSVOA15

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Oct 11 15:30:34 2011
Response via : Initial Calibration

Calibration Files
1 =Z05.D 2 =Z06.D 3 =Z07.D 4 =Z08.D
5 =Z09.D 6 =Z10.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.272	0.438	0.365	0.387	0.412	0.364	0.373	15.25
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9957								
		Response Ratio = 0.00000 + 0.43000 *A + -0.02976 *A^2								
3)	P	Chloromethane	0.410	0.421	0.382	0.394	0.411	0.366	0.397	5.24
4)	C	Vinyl Chloride	0.362	0.472	0.430	0.435	0.445	0.394	0.423	9.28
5)		Bromomethane	0.357	0.410	0.373	0.366	0.361	0.308	0.362	9.03
6)		Chloroethane	0.235	0.272	0.234	0.226	0.214	0.180	0.227	13.25
7)		Trichlorofluorometh	0.504	0.660	0.602	0.652	0.684	0.626	0.621	10.27
8)		Ethyl Ether	0.204	0.228	0.220	0.229	0.252	0.237	0.228	7.02
9)		1,2-Dichlorotrifluo	0.287	0.358	0.340	0.374	0.381	0.360	0.350	9.66
10)		Freon 113	0.239	0.342	0.308	0.344	0.362	0.352	0.324	14.11
11)	C	1,1-Dichloroethene	0.302	0.383	0.364	0.398	0.405	0.387	0.373	10.05
12)		Acetone	0.107	0.060	0.052	0.054	0.056	0.050	0.063	34.21
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9957								
		Response Ratio = 0.00000 + 0.05239 *A								
13)		Iodomethane	0.389	0.520	0.507	0.562	0.597	0.578	0.526	14.27
14)		Carbon Disulfide	0.728	0.932	0.882	0.983	1.026	1.006	0.926	11.91
15)		Methyl acetate	0.160	0.171	0.173	0.176	0.187	0.174	0.173	4.92
16)		Methylene Chloride	3.240	0.787	0.442	0.411	0.406	0.366	0.942	120.66
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9962								
		Response Ratio = 0.00000 + 0.38409 *A								
17)		Methyl Tert Butyl E	0.768	0.848	0.857	0.910	0.987	0.914	0.881	8.44
18)		trans-1,2-Dichloroe	0.276	0.375	0.375	0.400	0.418	0.395	0.373	13.48
19)		Acrylonitrile	0.079	0.079	0.088	0.093	0.100	0.094	0.089	9.71
20)		Hexane	0.492	0.581	0.562	0.619	0.652	0.616	0.587	9.59
21)		Di-isopropyl ether	0.738	0.841	0.820	0.847	0.895	0.823	0.827	6.21
22)		Vinyl acetate	0.356	0.381	0.436	0.470	0.506	0.459	0.435	13.01
23)	P	1,1-Dichloroethane	0.380	0.468	0.460	0.485	0.508	0.481	0.464	9.52
24)		ETBE	0.712	0.831	0.887	0.941	1.009	0.936	0.886	11.76
25)		2-Butanone	0.135	0.131	0.128	0.129	0.136	0.127	0.131	2.66
26)		2,2-Dichloropropane	0.341	0.400	0.394	0.428	0.446	0.419	0.405	9.06
27)		cis-1,2-Dichloroeth	0.253	0.299	0.292	0.317	0.338	0.323	0.304	9.82
28)		Bromochloromethane	0.148	0.161	0.167	0.178	0.198	0.187	0.173	10.63
29)		Tetrahydrofuran	0.112	0.080	0.071	0.071	0.074	0.068	0.079	20.83
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981								
		Response Ratio = 0.00000 + 0.07737 *A + -0.00429 *A^2								
30)	C	Chloroform	0.422	0.519	0.519	0.559	0.608	0.569	0.533	12.01
31)	S	Dibromofluoromethan	0.281	0.281	0.286	0.286	0.302	0.310	0.291	4.18
32)		1,1,1-Trichloroetha	0.338	0.450	0.454	0.499	0.521	0.497	0.460	14.30
33)		Cyclohexane	0.316	0.449	0.435	0.484	0.508	0.476	0.445	15.36
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981								

Initial Calibration Summary

Job Number: F86441 **Sample:** VZ1-ICC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z08.D
Project: Melrose Air Force Range, NM

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                Response Ratio = 0.00000 + 0.49972 *A + -0.00873 *A^2

34)     Carbon Tetrachlorid 0.305 0.432 0.426 0.481 0.504 0.484 0.439  16.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.48302 *A + 0.00282 *A^2

35)     1,1-Dichloropropene 0.255 0.353 0.357 0.383 0.405 0.384 0.356  14.87
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.39442 *A + -0.00317 *A^2

36) S   1,2-Dichloroethane- 0.295 0.299 0.292 0.291 0.298 0.304 0.296   1.63
37)     TAME                0.704 0.838 0.854 0.927 1.000 0.928 0.875  11.67
38)     Benzene             0.898 1.003 1.066 1.150 1.240 1.173 1.088  11.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
              Response Ratio = 0.00000 + 1.18582 *A + 0.00105 *A^2

39)     1,2-Dichloroethane  0.319 0.348 0.353 0.369 0.388 0.359 0.356   6.50
40)     Trichloroethene     0.219 0.279 0.287 0.309 0.335 0.326 0.293  14.41
41)     Methylcyclohexane   0.330 0.483 0.471 0.547 0.583 0.560 0.496  18.60
            ---- Quadratic regression ----  Coefficient =  0.9982
              Response Ratio = -0.01643 + 0.57959 *A + -0.00314 *A^2

42) C   1,2-Dichloropropane 0.221 0.249 0.260 0.272 0.293 0.275 0.262   9.41
43)     Dibromomethane      0.230 0.187 0.194 0.206 0.224 0.210 0.208   8.00
44)     Bromodichloromethan 0.290 0.365 0.364 0.389 0.426 0.399 0.372  12.45
45)     2-Chloroethyl vinyl 0.141 0.170 0.183 0.203 0.227 0.214 0.189  16.53
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.21555 *A

46)     2-Nitropropane      0.059 0.055 0.059 0.061 0.068 0.063 0.061   6.95
47)     cis-1,3-Dichloropro 0.309 0.377 0.396 0.440 0.488 0.466 0.413  15.92
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9978
              Response Ratio = 0.00000 + 0.46826 *A

48)     4-Methyl-2-pentanon 0.219 0.236 0.232 0.242 0.260 0.237 0.237   5.73

49) I   Chlorobenzene-d5      ----------------ISTD--------------------
50) S   Toluene-d8          1.341 1.311 1.268 1.211 1.225 1.271 1.271   3.88
51) C   Toluene             1.320 1.468 1.497 1.549 1.652 1.564 1.508   7.42
52)     trans-1,3-Dichlorop 0.378 0.469 0.496 0.543 0.584 0.536 0.501  14.38
53)     1,1,2-Trichloroetha 0.262 0.294 0.279 0.290 0.308 0.285 0.286   5.37
54)     Tetrachloroethene   0.321 0.391 0.406 0.444 0.480 0.479 0.420  14.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.43019 *A + 0.02645 *A^2

55)     2-hexanone          0.200 0.203 0.192 0.196 0.205 0.184 0.197   4.07
56)     1,3-Dichloropropane 0.471 0.556 0.528 0.553 0.578 0.536 0.537   6.82
57)     Dibromochloromethan 0.321 0.370 0.390 0.414 0.446 0.420 0.393  11.18
58)     1,2-Dibromoethane   0.304 0.327 0.333 0.353 0.379 0.349 0.341   7.49
59)     1-Chlorohexane      0.353 0.476 0.474 0.522 0.544 0.525 0.482  14.37
60) P   Chlorobenzene       0.890 1.066 1.076 1.145 1.238 1.181 1.099  11.03
61) C   Ethylbenzene        1.510 1.765 1.797 1.882 1.988 1.870 1.802   9.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 1.96875 *A + -0.03902 *A^2

62)     1,1,1,2-Tetrachloro 0.319 0.374 0.400 0.417 0.442 0.405 0.393  10.82
63)     m,p-Xylene          0.981 1.234 1.375 1.470 1.558 1.456 1.346  15.54
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 1.53571 *A + -0.01528 *A^2
```

Initial Calibration Summary

Job Number: F86441 **Sample:** VZ1-ICC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z08.D
Project: Melrose Air Force Range, NM

```
64)      o-Xylene             0.984 1.239 1.315 1.404 1.495 1.365 1.300  13.62
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
               Response Ratio = 0.00000 + 1.50306 *A + -0.05888 *A^2

65)      Styrene              0.724 0.914 0.985 1.118 1.220 1.139 1.017  17.81
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
               Response Ratio = 0.00000 + 1.15196 *A + 0.00267 *A^2

66) P    Bromoform            0.219 0.263 0.283 0.321 0.365 0.340 0.298  18.02
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9956
               Response Ratio = 0.00000 + 0.33122 *A + 0.00745 *A^2


67) I    1,4-Dichlorobenzene-d ----------------ISTD---------------------
68)      Isopropylbenzene     1.877 2.340 2.436 2.678 2.869 2.766 2.494  14.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
               Response Ratio = 0.00000 + 2.69417 *A + 0.05061 *A^2

69)      Cyclohexanone        0.016 0.016 0.017 0.015 0.013 0.011 0.015  15.05
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.01740 *A + -0.00063 *A^2

70) S    4-Bromofluorobenzen 0.866 0.856 0.832 0.811 0.856 0.938 0.860   5.03
71) P    1,1,2,2-Tetrachloro 0.738 0.839 0.803 0.841 0.908 0.817 0.824   6.74
72)      trans-1,4-Dichloro- 0.189 0.195 0.197 0.208 0.217 0.212 0.203   5.40
73)      n-Propylbenzene     2.628 3.262 3.390 3.672 3.951 3.849 3.459  14.01
74)      Bromobenzene        0.670 0.828 0.823 0.904 1.012 0.990 0.871  14.48
75)      1,2,3-Trichloroprop 0.197 0.239 0.235 0.253 0.265 0.248 0.240   9.85
76)      1,3,5-Trimethylbenz 1.814 2.391 2.619 2.822 3.019 2.782 2.574  16.63
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9967
               Response Ratio = 0.00000 + 2.84972 *A

77)      2-Chlorotoluene     1.847 2.334 2.476 2.665 2.826 2.639 2.464  14.05
78)      4-Chlorotoluene     1.677 2.035 2.043 2.248 2.405 2.326 2.122  12.46
79)      tert-Butylbenzene   1.022 1.320 1.394 1.537 1.570 1.453 1.383  14.39
80)      1,2,4-Trimethylbenz 1.844 2.363 2.531 2.752 2.895 2.662 2.508  14.88
81)      sec-Butylbenzene    2.233 2.928 3.154 3.496 3.577 3.298 3.114  15.77
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9966
               Response Ratio = 0.00000 + 3.39355 *A

82)      4-Isopropyltoluene  1.766 2.255 2.461 2.756 2.855 2.608 2.450  16.21
             ---- Quadratic regression ----  Coefficient =  0.9977
               Response Ratio = -0.10129 + 3.12205 *A + -0.21645 *A^2

83)      1,3-Dichlorobenzene 1.225 1.489 1.440 1.604 1.727 1.648 1.522  11.78
84)      1,4-Dichlorobenzene 1.509 1.642 1.647 1.723 1.849 1.736 1.684   6.77
85)      Benzyl Chloride     0.200 0.257 0.298 0.342 0.372 0.335 0.301  21.01
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9943
               Response Ratio = 0.00000 + 0.34542 *A

86)      n-Butylbenzene      0.443 0.598 0.649 0.716 0.751 0.690 0.641  17.27
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9965
               Response Ratio = 0.00000 + 0.70922 *A

87)      1,2-Dichlorobenzene 1.241 1.449 1.410 1.503 1.558 1.367 1.421   7.83
88)      1,2-Dibromo-3-Chlor 0.106 0.130 0.111 0.103 0.083 0.055 0.098  26.49
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
               Response Ratio = 0.00000 + 0.13693 *A + -0.04059 *A^2

89)      1,2,4-Trichlorobenz 0.863 1.015 0.921 0.768 0.574 0.341 0.747  33.35
```

Initial Calibration Summary

Job Number: F86441 **Sample:** VZ1-ICC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z08.D
Project: Melrose Air Force Range, NM

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            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.07375 *A + -0.36477 *A^2

90)     Hexachlorobutadiene 0.434 0.553 0.538 0.514 0.439 0.296 0.462  20.67
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
              Response Ratio = 0.00000 + 0.67600 *A + -0.18660 *A^2

91)     Naphthalene         1.772 2.058 1.868 1.445 0.976 0.564 1.447  39.77
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 2.04300 *A + -0.74335 *A^2

92)     1,2,3-Trichlorobenz 0.816 0.914 0.795 0.597 0.391 0.230 0.624  43.05
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 0.84320 *A + -0.30960 *A^2


93) I   Tert Butyl alcohol-d1 ----------------ISTD--------------------
94)     Acrolein            0.501 0.450 0.520 0.499 0.532 0.487 0.498   5.73
95)     Tert-Butyl Alcohol  1.373 1.314 1.263 1.219 1.270 1.151 1.265   6.04
96)     Tert amyl alcohol   0.907 1.020 1.008 0.999 1.063 0.948 0.991   5.57
97)     1,4-Dioxane         0.041 0.133 0.123 0.131 0.128 0.121 0.113  31.63
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9980
              Response Ratio = 0.00000 + 0.12416 *A

--------------------------------------------------------------------------------
(#) = Out of Range

          8260.M            Wed Oct 12 09:06:46 2011
```

Initial Calibration Verification

Job Number: F86441 **Sample:** VZ1-ICV1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z12.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101111\Z12.D Vial: 7
Acq On : 11 Oct 2011 2:46 pm Operator: KarenW
Sample : ICV1-4 Inst : MSVOA15
Misc : MS18842,VZ1,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Oct 11 15:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00	7.87
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	41.820	-4.6	115	0.00	2.63
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.397	0.370	6.8	99	0.00	2.86
4	C	Vinyl Chloride	0.423	0.430	-1.7	104	0.00	3.02
5		Bromomethane	0.362	0.356	1.7	102	0.00	3.45
6		Chloroethane	0.227	0.209	7.9	97	0.00	3.61
7		Trichlorofluoromethane	0.621	0.738	-18.8	119	-0.01	3.84
8		Ethyl Ether	0.228	0.217	4.8	100	0.00	4.15
9		1,2-Dichlorotrifluoroetha	0.350	0.331	5.4	93	0.00	4.40
10		Freon 113	0.324	0.326	-0.6	100	0.00	4.49
11	C	1,1-Dichloroethene	0.373	0.369	1.1	98	0.00	4.43
			Amount	Calc.	%Drift			
12		Acetone	200.000	133.312	33.3#	68	0.00	5.15
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.526	0.519	1.3	97	0.00	4.63
14		Carbon Disulfide	0.926	0.871	5.9	93	-0.01	4.50
15		Methyl acetate	0.173	0.173	0.0	103	0.00	5.27
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	37.055	7.4	91	0.00	5.11
			AvgRF	CCRF	%Dev			
17		Methyl Tert Butyl Ether	0.881	0.822	6.7	95	0.00	5.39
18		trans-1,2-Dichloroethene	0.373	0.362	2.9	95	0.00	5.29
19		Acrylonitrile	0.089	0.097	-9.0	109	0.00	6.03
20		Hexane	0.587	0.578	1.5	98	0.00	5.36
21		Di-isopropyl ether	0.827	0.783	5.3	97	0.00	5.80
22		Vinyl acetate	0.435	0.430	1.1	96	0.00	6.21
23	P	1,1-Dichloroethane	0.464	0.460	0.9	100	0.00	5.99
24		ETBE	0.886	0.869	1.9	97	0.00	6.21
25		2-Butanone	0.131	0.160	-22.1#	131	-0.04	7.11
26		2,2-Dichloropropane	0.405	0.424	-4.7	104	-0.01	6.70
27		cis-1,2-Dichloroethene	0.304	0.295	3.0	98	0.00	6.57
28		Bromochloromethane	0.173	0.162	6.4	96	0.00	6.78
			Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: VZ1-ICV1
Lab FileID: Z12.D

29		Tetrahydrofuran	40.000	38.217	4.5	105	0.00	7.02
			AvgRF	CCRF	%Dev			
30	C	Chloroform	0.533	0.532	0.2	100	0.00	6.84
31	S	Dibromofluoromethane	0.291	0.285	2.1	105	0.00	7.03
32		1,1,1-Trichloroethane	0.460	0.474	-3.0	100	0.00	7.10
			Amount	Calc.	%Drift			
33		Cyclohexane	40.000	36.527	8.7	98	0.00	6.82
34		Carbon Tetrachloride	40.000	36.904	7.7	98	0.00	7.02
35		1,1-Dichloropropene	40.000	37.394	6.5	101	0.00	7.21
			AvgRF	CCRF	%Dev			
36	S	1,2-Dichloroethane-d4	0.296	0.290	2.0	105	0.00	7.60
37		TAME	0.875	0.820	6.3	93	0.00	7.54
			Amount	Calc.	%Drift			
38		Benzene	40.000	36.754	8.1	100	0.00	7.47
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.356	0.361	-1.4	103	0.00	7.66
40		Trichloroethene	0.293	0.298	-1.7	101	0.00	8.04
			Amount	Calc.	%Drift			
41		Methylcyclohexane	40.000	36.791	8.0	98	0.00	8.06
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.262	0.263	-0.4	102	0.00	8.57
43		Dibromomethane	0.208	0.203	2.4	103	0.00	8.47
44		Bromodichloromethane	0.372	0.383	-3.0	103	0.00	8.61
			Amount	Calc.	%Drift			
45		2-Chloroethyl vinyl ether	200.000	179.315	10.3	100	0.00	9.14
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.061	0.061	0.0	104	0.00	9.70
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	38.325	4.2	107	0.00	9.24
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.237	0.245	-3.4	106	0.00	9.81
49	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.98
50	S	Toluene-d8	1.271	1.223	3.8	106	0.00	9.42
51	C	Toluene	1.508	1.522	-0.9	103	0.00	9.48
52		trans-1,3-Dichloropropene	0.501	0.597	-19.2	116	0.00	9.86
53		1,1,2-Trichloroethane	0.286	0.291	-1.7	105	0.00	10.03
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	38.855	2.9	104	0.00	9.87
			AvgRF	CCRF	%Dev			
55		2-hexanone	0.197	0.160	18.8	85	0.00	10.63
56		1,3-Dichloropropane	0.537	0.541	-0.7	103	0.00	10.31
57		Dibromochloromethane	0.393	0.409	-4.1	104	0.00	10.22
58		1,2-Dibromoethane	0.341	0.349	-2.3	104	0.00	10.49
59		1-Chlorohexane	0.482	0.479	0.6	96	0.00	10.92
60	P	Chlorobenzene	1.099	1.135	-3.3	104	0.00	11.00

Initial Calibration Verification

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: VZ1-ICV1
Lab FileID: Z12.D

			Amount	Calc.	%Drift			
61	C	Ethylbenzene	40.000	37.568	6.1	102	0.00	10.99
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.393	0.409	-4.1	103	0.00	11.05
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	75.468	5.7	102	0.00	11.13
64		o-Xylene	40.000	37.533	6.2	102	0.00	11.57
65		Styrene	40.000	37.698	5.8	102	0.00	11.63
66	P	Bromoform	40.000	37.555	6.1	104	0.00	11.68
			AvgRF	CCRF	%Dev			
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	13.34
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	46.017	-15.0	124	0.00	11.88
69		Cyclohexanone	200.000	224.667	-12.3	116	0.00	12.61
			AvgRF	CCRF	%Dev			
70	S	4-Bromofluorobenzene	0.860	0.821	4.5	106	0.00	12.19
71	P	1,1,2,2-Tetrachloroethane	0.824	0.872	-5.8	109	0.00	12.36
72		trans-1,4-Dichloro-2-Bute	0.203	0.206	-1.5	104	0.00	12.55
73		n-Propylbenzene	3.459	3.641	-5.3	104	0.00	12.30
74		Bromobenzene	0.871	0.879	-0.9	102	0.00	12.32
75		1,2,3-Trichloropropane	0.240	0.257	-7.1	106	0.00	12.53
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	37.175	7.1	98	0.00	12.48
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	2.464	2.586	-5.0	102	0.00	12.49
78		4-Chlorotoluene	2.122	2.258	-6.4	105	0.00	12.66
79		tert-Butylbenzene	1.383	1.485	-7.4	101	0.00	12.83
80		1,2,4-Trimethylbenzene	2.508	2.646	-5.5	101	0.00	12.89
			Amount	Calc.	%Drift			
81		sec-Butylbenzene	40.000	39.861	0.3	101	0.00	13.02
82		4-Isopropyltoluene	40.000	38.599	3.5	104	0.00	13.14
			AvgRF	CCRF	%Dev			
83		1,3-Dichlorobenzene	1.522	1.580	-3.8	103	0.00	13.27
84		1,4-Dichlorobenzene	1.684	1.716	-1.9	104	0.00	13.36
			Amount	Calc.	%Drift			
85		Benzyl Chloride	40.000	42.149	-5.4	112	0.00	13.59
86		n-Butylbenzene	40.000	39.024	2.4	101	0.00	13.57
			AvgRF	CCRF	%Dev			
87		1,2-Dichlorobenzene	1.421	1.504	-5.8	105	0.00	13.78
			Amount	Calc.	%Drift			
88		1,2-Dibromo-3-Chloropropa	40.000	40.259	-0.6	107	0.00	14.52
89		1,2,4-Trichlorobenzene	40.000	39.154	2.1	105	0.00	15.11
90		Hexachlorobutadiene	40.000	37.148	7.1	102	0.00	15.06
91		Naphthalene	40.000	40.330	-0.8	106	0.00	15.40
92		1,2,3-Trichlorobenzene	40.000	38.942	2.6	103	0.00	15.57

Initial Calibration Verification

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: VZ1-ICV1
Lab FileID: Z12.D

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	112	-0.01	5.37
94		Acrolein	0.498	0.476	4.4	107	0.00	4.82
95		Tert-Butyl Alcohol	1.265	1.159	8.4	107	0.00	5.46
96		Tert amyl alcohol	0.991	0.965	2.6	109	0.00	7.69

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	869.567	-8.7	116	0.00	8.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z08.D 8260.M Wed Oct 12 09:06:34 2011

Continuing Calibration Summary

Job Number: F86441 **Sample:** VZ2-CC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z39.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101211\Z39.D Vial: 1
Acq On : 12 Oct 2011 9:35 am Operator: KarenW
Sample : CC1-4 Inst : MSVOA15
Misc : MS18871,VZ2,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Tue Oct 11 15:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	81	0.00	7.87
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	36.234	9.4	78	0.00	2.64
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.397	0.398	-0.3	82	0.00	2.86
4	C	Vinyl Chloride	0.423	0.448	-5.9	84	0.00	3.02
5		Bromomethane	0.362	0.387	-6.9	86	0.00	3.46
6		Chloroethane	0.227	0.241	-6.2	86	0.00	3.62
7		Trichlorofluoromethane	0.621	0.635	-2.3	79	0.00	3.85
8		Ethyl Ether	0.228	0.239	-4.8	85	0.00	4.15
9		1,2-Dichlorotrifluoroetha	0.350	0.365	-4.3	79	0.00	4.40
10		Freon 113	0.324	0.328	-1.2	77	0.00	4.50
11	C	1,1-Dichloroethene	0.373	0.379	-1.6	77	0.00	4.44
			Amount	Calc.	%Drift			
12		Acetone	200.000	175.372	12.3	69	0.00	5.14
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.526	0.503	4.4	73	0.00	4.63
14		Carbon Disulfide	0.926	0.945	-2.1	78	0.00	4.50
15		Methyl acetate	0.173	0.176	-1.7	81	0.00	5.27
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	40.364	-0.9	77	0.00	5.11
			AvgRF	CCRF	%Dev			
17		Methyl Tert Butyl Ether	0.881	0.881	0.0	79	0.00	5.40
18		trans-1,2-Dichloroethene	0.373	0.395	-5.9	80	0.00	5.29
19		Acrylonitrile	0.089	0.089	0.0	78	0.00	6.03
20		Hexane	0.587	0.630	-7.3	83	0.00	5.37
21		Di-isopropyl ether	0.827	0.894	-8.1	86	0.00	5.80
22		Vinyl acetate	0.435	0.413	5.1	71	0.00	6.21
23	P	1,1-Dichloroethane	0.464	0.486	-4.7	81	0.00	5.99
24		ETBE	0.886	0.961	-8.5	83	0.00	6.21
25		2-Butanone	0.131	0.147	-12.2	92	0.00	7.14
26		2,2-Dichloropropane	0.405	0.430	-6.2	82	0.00	6.71
27		cis-1,2-Dichloroethene	0.304	0.295	3.0	76	0.00	6.57
28		Bromochloromethane	0.173	0.168	2.9	77	0.00	6.78
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: F86441 **Sample:** VZ2-CC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z39.D
Project: Melrose Air Force Range, NM

29		Tetrahydrofuran	40.000	37.031	7.4	78	0.00	7.02
			AvgRF	CCRF	%Dev			
30	C	Chloroform	0.533	0.555	-4.1	81	0.00	6.84
31	S	Dibromofluoromethane	0.291	0.277	4.8	79	0.00	7.03
32		1,1,1-Trichloroethane	0.460	0.470	-2.2	76	0.00	7.10
			Amount	Calc.	%Drift			
33		Cyclohexane	40.000	39.644	0.9	82	0.00	6.82
34		Carbon Tetrachloride	40.000	35.620	11.0	73	0.00	7.03
35		1,1-Dichloropropene	40.000	37.837	5.4	79	0.00	7.21
			AvgRF	CCRF	%Dev			
36	S	1,2-Dichloroethane-d4	0.296	0.299	-1.0	83	0.00	7.60
37		TAME	0.875	0.915	-4.6	80	0.00	7.54
			Amount	Calc.	%Drift			
38		Benzene	40.000	38.534	3.7	81	0.00	7.47
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.356	0.374	-5.1	82	0.00	7.66
40		Trichloroethene	0.293	0.295	-0.7	77	0.00	8.04
			Amount	Calc.	%Drift			
41		Methylcyclohexane	40.000	38.179	4.6	79	0.00	8.06
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.262	0.283	-8.0	84	0.00	8.57
43		Dibromomethane	0.208	0.195	6.2	76	0.00	8.48
44		Bromodichloromethane	0.372	0.379	-1.9	79	0.00	8.61
			Amount	Calc.	%Drift			
45		2-Chloroethyl vinyl ether	200.000	176.738	11.6	76	0.00	9.14
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.061	0.061	0.0	80	0.00	9.70
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	38.492	3.8	83	0.00	9.24
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.237	0.236	0.4	79	0.00	9.81
49	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00	10.98
50	S	Toluene-d8	1.271	1.213	4.6	83	0.00	9.42
51	C	Toluene	1.508	1.507	0.1	80	0.00	9.48
52		trans-1,3-Dichloropropene	0.501	0.554	-10.6	84	0.00	9.86
53		1,1,2-Trichloroethane	0.286	0.288	-0.7	82	0.00	10.03
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	36.339	9.2	76	0.00	9.87
			AvgRF	CCRF	%Dev			
55		2-hexanone	0.197	0.188	4.6	79	0.00	10.63
56		1,3-Dichloropropane	0.537	0.546	-1.7	81	0.00	10.31
57		Dibromochloromethane	0.393	0.383	2.5	76	0.00	10.22
58		1,2-Dibromoethane	0.341	0.333	2.3	78	0.00	10.49
59		1-Chlorohexane	0.482	0.494	-2.5	78	0.00	10.92
60	P	Chlorobenzene	1.099	1.136	-3.4	82	0.00	11.00

Continuing Calibration Summary

Job Number: F86441 **Sample:** VZ2-CC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z39.D
Project: Melrose Air Force Range, NM

			Amount	Calc.	%Drift			
61	C	Ethylbenzene	40.000	38.878	2.8	83	0.00	10.99
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.393	0.398	-1.3	79	0.00	11.05
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	75.992	5.0	81	0.00	11.13
64		o-Xylene	40.000	37.122	7.2	80	0.00	11.57
65		Styrene	40.000	36.895	7.8	79	0.00	11.62
66	P	Bromoform	40.000	35.184	12.0	76	0.00	11.68
			AvgRF	CCRF	%Dev			
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	13.34
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	37.086	7.3	78	0.00	11.88
69		Cyclohexanone	200.000	171.149	14.4	73	0.00	12.61
			AvgRF	CCRF	%Dev			
70	S	4-Bromofluorobenzene	0.860	0.824	4.2	84	0.00	12.19
71	P	1,1,2,2-Tetrachloroethane	0.824	0.833	-1.1	82	0.00	12.36
72		trans-1,4-Dichloro-2-Bute	0.203	0.204	-0.5	81	0.00	12.55
73		n-Propylbenzene	3.459	3.585	-3.6	81	0.00	12.30
74		Bromobenzene	0.871	0.855	1.8	78	0.00	12.32
75		1,2,3-Trichloropropane	0.240	0.237	1.3	77	0.00	12.53
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	37.564	6.1	78	0.00	12.48
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	2.464	2.593	-5.2	81	0.00	12.49
78		4-Chlorotoluene	2.122	2.217	-4.5	82	0.00	12.66
79		tert-Butylbenzene	1.383	1.433	-3.6	77	0.00	12.83
80		1,2,4-Trimethylbenzene	2.508	2.623	-4.6	79	0.00	12.89
			Amount	Calc.	%Drift			
81		sec-Butylbenzene	40.000	38.428	3.9	77	0.00	13.01
82		4-Isopropyltoluene	40.000	35.988	10.0	76	0.00	13.14
			AvgRF	CCRF	%Dev			
83		1,3-Dichlorobenzene	1.522	1.544	-1.4	80	0.00	13.27
84		1,4-Dichlorobenzene	1.684	1.674	0.6	80	0.00	13.36
			Amount	Calc.	%Drift			
85		Benzyl Chloride	40.000	40.252	-0.6	84	0.00	13.59
86		n-Butylbenzene	40.000	38.101	4.7	78	0.00	13.57
			AvgRF	CCRF	%Dev			
87		1,2-Dichlorobenzene	1.421	1.469	-3.4	81	0.00	13.78
			Amount	Calc.	%Drift			
88		1,2-Dibromo-3-Chloropropa	40.000	31.972	20.1#	71	0.00	14.52
89		1,2,4-Trichlorobenzene	40.000	36.576	8.6	80	0.00	15.11
90		Hexachlorobutadiene	40.000	35.505	11.2	78	0.00	15.05
91		Naphthalene	40.000	31.912	20.2#	72	0.00	15.40
92		1,2,3-Trichlorobenzene	40.000	35.490	11.3	77	0.00	15.56

Continuing Calibration Summary

Job Number: F86441 **Sample:** VZ2-CC1
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** Z39.D
Project: Melrose Air Force Range, NM

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	74	-0.01	5.37
94		Acrolein	0.498	0.468	6.0	69	0.00	4.82
95		Tert-Butyl Alcohol	1.265	1.176	7.0	71	-0.01	5.45
96		Tert amyl alcohol	0.991	0.983	0.8	73	0.00	7.69

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	853.218	-6.7	74	0.00	8.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z08.D 8260.M Thu Oct 13 09:06:33 2011

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38919-MB	GG046079.D	1	10/06/11	SL	10/05/11	OP38919	GGG1800

The QC reported here applies to the following samples: **Method:** SW846 8330A

F86441-1

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.20	0.080	ug/l	
121-82-4	RDX	ND	0.20	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.20	0.097	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.080	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	0.082	ug/l	
98-95-3	Nitrobenzene	ND	0.20	0.084	ug/l	
88-72-2	o-Nitrotoluene	ND	0.20	0.080	ug/l	
99-08-1	m-Nitrotoluene	ND	0.20	0.080	ug/l	
99-99-0	p-Nitrotoluene	ND	0.20	0.080	ug/l	
479-45-8	Tetryl	ND	0.20	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	0.080	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	100%	70-136%

Method Blank Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38919-MB	BB029645.D	1	10/06/11	SL	10/05/11	OP38919	GBB651

The QC reported here applies to the following samples: **Method:** SW846 8330A

F86441-1

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.20	0.080	ug/l	
121-82-4	RDX	ND	0.20	0.080	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.20	0.097	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.20	0.080	ug/l	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	0.20	0.080	ug/l	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	0.20	0.082	ug/l	
98-95-3	Nitrobenzene	ND	0.20	0.084	ug/l	
88-72-2	o-Nitrotoluene	ND	0.20	0.080	ug/l	
99-08-1	m-Nitrotoluene	ND	0.20	0.080	ug/l	
99-99-0	p-Nitrotoluene	ND	0.20	0.080	ug/l	
479-45-8	Tetryl	ND	0.20	0.080	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	0.080	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	101%	70-136%

Blank Spike Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38919-BS	GG046078.D	1	10/06/11	SL	10/05/11	OP38919	GGG1800

The QC reported here applies to the following samples: **Method:** SW846 8330A

F86441-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	5	6.7	134	74-152
121-82-4	RDX	5	5.0	100	80-124
99-65-0	1,3-Dinitrobenzene	5	4.7	94	84-123
606-20-2	2,6-Dinitrotoluene	5	5.6	112	84-133
121-14-2	2,4-Dinitrotoluene	5	5.3	106	77-116
35572-78-2	2-amino-4,6-Dinitrotoluene	5	5.0	100	78-117
19406-51-0	4-amino-2,6-Dinitrotoluene	5	4.9	98	84-123
98-95-3	Nitrobenzene	5	5.2	104	76-128
88-72-2	o-Nitrotoluene	5	8.1	162*	76-120
99-08-1	m-Nitrotoluene	5	5.2	104	74-124
99-99-0	p-Nitrotoluene	5	6.1	122	81-125
479-45-8	Tetryl	5	4.9	98	62-117
99-35-4	1,3,5-Trinitrobenzene	5	5.2	104	85-127
118-96-7	2,4,6-Trinitrotoluene	5	4.6	92	71-128

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	106%	70-136%

Blank Spike Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38919-BS	BB029644.D	1	10/06/11	SL	10/05/11	OP38919	GBB651

The QC reported here applies to the following samples: **Method:** SW846 8330A

F86441-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	5	5.5	110	74-152
121-82-4	RDX	5	4.4	88	80-124
99-65-0	1,3-Dinitrobenzene	5	4.6	92	84-123
606-20-2	2,6-Dinitrotoluene	5	5.2	104	84-133
121-14-2	2,4-Dinitrotoluene	5	5.0	100	77-116
35572-78-2	2-amino-4,6-Dinitrotoluene	5	4.8	96	78-117
19406-51-0	4-amino-2,6-Dinitrotoluene	5	4.6	92	84-123
98-95-3	Nitrobenzene	5	5.0	100	76-128
88-72-2	o-Nitrotoluene	5	7.8	156*	76-120
99-08-1	m-Nitrotoluene	5	5.0	100	74-124
99-99-0	p-Nitrotoluene	5	6.1	122	81-125
479-45-8	Tetryl	5	4.3	86	62-117
99-35-4	1,3,5-Trinitrobenzene	5	5.0	100	85-127
118-96-7	2,4,6-Trinitrotoluene	5	4.6	92	71-128

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	101%	70-136%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38919-MS	BB029648.D	25	10/06/11	SL	10/05/11	OP38919	GBB651
OP38919-MSD	BB029649.D	25	10/06/11	SL	10/05/11	OP38919	GBB651
F86582-1 [a]	GG046081.D	50	10/06/11	SL	10/05/11	OP38919	GGG1800
F86582-1 [b]	BB029647.D	50	10/06/11	SL	10/05/11	OP38919	GBB651

The QC reported here applies to the following samples: **Method:** SW846 8330A

F86441-1

CAS No.	Compound	F86582-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	9.6 U [c]		9.62	9.6	100	7.3	76	27*	74-152/21
121-82-4	RDX	9.6 U [c]		9.62	8.9	93	10.5	109	16	80-124/20
99-65-0	1,3-Dinitrobenzene	9.6 U [c]		9.62	12.0	125*	11.7	122	3	84-123/23
606-20-2	2,6-Dinitrotoluene	326 [c]		9.62	356	312* [d]	339	135* [d]	5	84-133/23
121-14-2	2,4-Dinitrotoluene	625 [c]		9.62	628	31* [d]	626	10* [d]	0	77-116/26
35572-78-2	2-amino-4,6-Dinitrotoluene	7.7 [c]	J	9.62	15.6	82	16.6	93	6	78-117/28
19406-51-0	4-amino-2,6-Dinitrotoluene	13.2 [c]		9.62	14.7	16*	11.5	-18*	24	84-123/27
98-95-3	Nitrobenzene	9.6 U [c]		9.62	15.6	162*	13.7	142*	13	76-128/28
88-72-2	o-Nitrotoluene	144 [c]		9.62	151	73* [d]	145	10* [d]	4	76-120/30
99-08-1	m-Nitrotoluene	87.8 [c]		9.62	94.3	68* [d]	83.0	-50* [d]	13	74-124/32
99-99-0	p-Nitrotoluene	726 [c]		9.62	713	-135* [d]	704	-229* [d]	1	81-125/34
479-45-8	Tetryl	9.6 U [c]		9.62	7.1	74	10.5	109	39*	62-117/28
99-35-4	1,3,5-Trinitrobenzene	9.6 U [c]		9.62	13.5	140*	16.4	171*	19	85-127/21
118-96-7	2,4,6-Trinitrotoluene	32.8 [c]		9.62	45.4	131* [d]	47.0	148* [d]	3	71-128/21

CAS No.	Surrogate Recoveries	MS	MSD	F86582-1	F86582-1	Limits
610-39-9	3,4-Dinitrotoluene	0%* [e]	0%* [e]	0%* [e]	0%* [e]	70-136%

(a) Confirmation run.
(b) All hits confirmed by reanalysis on a dissimilar column.
(c) Result is from Run #2.
(d) Outside control limits due to high level in sample relative to spike amount.
(e) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F86441-1	BB029646.D	96.0
OP38919-BS	GG046078.D	106.0
OP38919-BS	BB029644.D	101.0
OP38919-MB	GG046079.D	100.0
OP38919-MB	BB029645.D	101.0
OP38919-MS	BB029648.D	0.0* [b]
OP38919-MSD	BB029649.D	0.0* [b]

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	70-136%

(a) Recovery from GC signal #1
(b) Outside control limits due to dilution.

GC Surrogate Retention Time Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	GBB651-CC642	**Injection Date:**	10/06/11
Lab File ID:	BB029642.D	**Injection Time:**	10:18
Instrument ID:	GCBB	**Method:**	SW846 8330A

	S1 [a] **RT**
Check Std	11.35

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
OP38919-BS	BB029644.D	10/06/11	11:26	11.33
OP38919-MB	BB029645.D	10/06/11	12:00	11.31
F86441-1	BB029646.D	10/06/11	12:34	11.30
F86582-1	BB029647.D	10/06/11	13:08	0.00
OP38919-MS	BB029648.D	10/06/11	13:42	0.00
OP38919-MSD	BB029649.D	10/06/11	14:16	0.00

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Check Std:	GGG1800-CC1796	**Injection Date:**	10/06/11
Lab File ID:	GG046074.D	**Injection Time:**	08:51
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	12.37	12.37

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	GG046076.D	10/06/11	09:39	12.27	
OP38919-BS	GG046078.D	10/06/11	11:06	12.29	
OP38919-MB	GG046079.D	10/06/11	11:30	12.30	
F86582-1	GG046081.D	10/06/11	12:18	0.00	
GGG1800-ECC1796	GG046082.D	10/06/11	12:42	12.28	12.28

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F86441 **Sample:** GBB642-ICC642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029377.D
Project: Melrose Air Force Range, NM

Response Factor Report G1315B

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Sep 23 10:39:32 2011
Response via : Initial Calibration

Calibration Files
20 =BB029372.D 50 =BB029373.D 100 =BB029374.D 200 =BB029375.D
500 =BB029376.D 1000=BB029377.D 2000=BB029378.D

	Compound	20	50	100	200	500	1000	2000	Avg	%RSD
1)	TNX	3.500	3.261	3.201	3.238	3.143	3.124	3.138	3.229 E3	4.04
2)	HMX	1.545	1.503	1.565	1.604	1.485	1.465	1.452	1.517 E3	3.70
3)	DNX	3.228	3.623	2.924	3.089	2.751	2.758	2.750	3.018 E3	10.77
4)	MNX	3.119	2.551	2.702	2.810	2.435	2.396	2.369	2.626 E3	10.36
5)	RDX	2.599	2.259	2.307	2.125	1.889	1.898	1.851	2.133 E3	12.95
6)	1,3,5-Trinitroben	4.870	3.983	3.917	4.014	3.985	3.893	3.921	4.083 E3	8.56
7)	1,3-Dinitrobenzen	5.744	5.461	5.198	5.322	5.275	5.168	5.217	5.341 E3	3.80
8)	3,5-Dinitroanilin	5.361	4.795	4.594	4.335	4.307	4.148	4.180	4.531 E3	9.54
9)	Nitrobenzene	3.151	3.460	3.024	3.134	3.133	3.052	3.056	3.144 E3	4.69
10)	Nitroglycerin								0.000	-1.00
11)	Tetryl	3.344	3.134	3.139	2.851	2.925	2.877	2.901	3.024 E3	6.10
12)	2,4,6-Trinitrotol	3.747	3.905	3.831	3.765	3.716	3.678	3.715	3.765 E3	2.08
13)	2-Amino-4,6-Dinit	3.920	3.463	3.464	3.238	3.286	3.211	3.248	3.404 E3	7.36
14)	4-Amino-2,6-Dinit	2.900	2.504	2.594	2.424	2.492	2.412	2.442	2.538 E3	6.74
15)S	3,4-Dinitrotoluen	2.817	2.174	2.101	1.996	2.056	2.023	2.062	2.176 E3	13.27
16)	2,4-Dinitrotoluen	5.529	4.633	4.654	4.609	4.641	4.570	4.649	4.755 E3	7.20
17)	2,6-Dinitrotoluen	2.916	2.591	2.645	2.501	2.658	2.544	2.637	2.642 E3	5.07
18)	o-Nitrotoluene	2.621	2.325	2.280	2.309	2.194	2.212	2.189	2.304 E3	6.52
19)	p-Nitrotoluene	3.469	4.099	3.168	3.452	3.246	3.283	3.317	3.433 E3	9.11
20)	m-Nitrotoluene	3.912	4.123	3.173	3.332	3.070	3.139	3.164	3.416 E3	12.37
21)	PETN								0.000	-1.00

Signal #2

1)	TNX	5.737	5.166	4.869	4.972	4.902	4.859	4.899	5.058 E3	6.28
2)	HMX	4.674	4.661	4.631	4.749	4.242	4.182	4.137	4.468 E3	5.97
3)	DNX	8.104	6.109	5.417	5.358	4.610	4.467	4.424	5.498 E3	23.71

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997
Response Ratio = 0.00000 + 4671.38055 *A + -0.12816 *A^2

4)	MNX	4.190	3.657	3.842	3.708	3.774	3.745	3.729	3.807 E3	4.68
5)	RDX	4.755	3.412	3.147	3.121	3.151	3.068	3.015	3.381 E3	18.29

---- Quadratic regr., Force(0,0) ---- Coefficient = 1.0000
Response Ratio = 0.00000 + 3151.03990 *A + -0.06848 *A^2

6)	1,3,5-Trinitroben	7.269	6.494	6.551	6.698	6.458	6.403	6.420	6.613 E3	4.62
7)	1,3-Dinitrobenzen	4.093	4.507	3.894	3.933	3.644	3.622	3.611	3.901 E3	8.33
8)	3,5-Dinitroanilin	8.503	7.963	7.356	7.525	7.185	7.116	7.128	7.539 E3	6.88
9)	Nitrobenzene	3.963	3.334	2.984	2.937	2.911	2.945	2.948	3.146 E3	12.37
10)	Nitroglycerin	1.539	1.386	1.311	1.335	1.317	1.303	1.317	1.358 E3	6.20
11)	Tetryl	4.575	4.722	4.726	4.820	4.784	4.791	4.871	4.756 E3	2.00
12)	2,4,6-Trinitrotol	4.825	4.841	4.523	4.592	4.572	4.534	4.575	4.637 E3	2.93
13)	2-Amino-4,6-Dinit	5.547	5.417	5.062	5.162	5.116	5.090	5.172	5.224 E3	3.53
14)	4-Amino-2,6-Dinit	6.113	5.457	5.165	5.216	5.216	5.193	5.275	5.376 E3	6.30
15)S	3,4-Dinitrotoluen	4.602	4.093	3.705	3.773	3.745	3.752	3.819	3.927 E3	8.26
16)	2,4-Dinitrotoluen	3.412	3.409	2.848	3.103	3.084	3.085	3.174	3.159 E3	6.29
17)	2,6-Dinitrotoluen	3.984	3.499	3.021	3.294	3.366	3.407	3.544	3.445 E3	8.49

Initial Calibration Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: GBB642-ICC642
Lab FileID: BB029377.D

18)	o-Nitrotoluene	3.592	2.969	3.330	3.158	2.996	3.006	2.991	3.149	E3	7.45
19)	p-Nitrotoluene	2.956	3.204	3.027	3.154	2.931	2.924	2.888	3.012	E3	4.07
20)	m-Nitrotoluene	4.194	4.362	4.148	3.996	3.852	3.774	3.777	4.015	E3	5.68
21)	PETN	1.537	1.568	1.396	1.419	1.399	1.420	1.392	1.447	E3	5.07

(#) = Out of Range

8330BPLUS.M Fri Sep 23 12:00:47 2011

Initial Calibration Verification

Job Number: F86441 **Sample:** GBB642-ICV642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029379.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0922BPL\BB029379.D\dad1B.ch Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\0922BPL\BB029379.D\dad1A.ch
Acq On : 22-Sep-2011, 18:40:34 Operator: SHANNONL
Sample : ICV642-500 Inst : G1315B
Misc : OP38721,GBB642,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Sep 23 10:39:32 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	487.812	2.4	100	0.00	0.99- 1.59
2	HMX	500.000	565.225	-13.0	115	0.00	1.13- 1.73
3	DNX	500.000	466.953	6.6	102	0.00	1.36- 1.96
4	MNX	500.000	459.331	8.1	99	0.00	1.93- 2.53
5	RDX	500.000	443.738	11.3	100	0.00	2.39- 3.19
6	1,3,5-Trinitrobenzene	500.000	508.312	-1.7	104	0.00	3.86- 4.66
7	1,3-Dinitrobenzene	500.000	467.849	6.4	95	0.00	5.07- 5.87
8	3,5-Dinitroaniline	500.000	572.704	-14.5	121	0.00	5.58- 6.38
9	Nitrobenzene	500.000	499.146	0.2	100	0.00	6.79- 7.59
10	Nitroglycerin		----------NA----------				
11	Tetryl	500.000	448.694	10.3	93	0.00	9.24-10.04
12	2,4,6-Trinitrotoluene	500.000	498.036	0.4	101	-0.02	9.53-10.33
13	2-Amino-4,6-Dinitrotol	500.000	494.501	1.1	102	0.00	10.12-10.92
14	4-Amino-2,6-Dinitrotol	500.000	489.293	2.1	100	-0.02	10.72-11.52
15 S	3,4-Dinitrotoluene		----------NA----------				
16	2,4-Dinitrotoluene	500.000	489.859	2.0	100	0.00	11.69-12.49
17	2,6-Dinitrotoluene	500.000	504.937	-1.0	100	0.00	12.29-13.09
18	o-Nitrotoluene	500.000	493.713	1.3	104	-0.02	16.47-17.47
19	p-Nitrotoluene	500.000	490.990	1.8	104	-0.01	17.43-18.43
20	m-Nitrotoluene	500.000	482.540	3.5	107	0.00	19.04-20.04
21	PETN		----------NA----------				
*****	Signal #2 *****						
1	TNX	500.000	484.764	3.0	100	0.00	0.99- 1.59
2	HMX	500.000	552.457	-10.5	116	0.00	1.13- 1.73
	---------- Amount		Calc.	%Drift	----------		
3	DNX	500.000	501.206	-0.2	100	0.00	1.36- 1.96
	---------- Amount		Calc.	%Drift	----------		
4	MNX	500.000	496.376	0.7	100	0.00	1.93- 2.53
	---------- Amount		Calc.	%Drift	----------		
5	RDX	500.000	490.933	1.8	97	0.00	2.39- 3.19
	---------- Amount		Calc.	%Drift	----------		
6	1,3,5-Trinitrobenzene	500.000	512.481	-2.5	105	0.00	3.86- 4.66
7	1,3-Dinitrobenzene	500.000	438.431	12.3	94	0.00	5.07- 5.87
8	3,5-Dinitroaniline	500.000	587.332	-17.5#	123	0.00	5.58- 6.38
9	Nitrobenzene	500.000	472.199	5.6	102	0.00	6.79- 7.59

Initial Calibration Verification

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: GBB642-ICV642
Lab FileID: BB029379.D

10		Nitroglycerin	2500.000	2368.895	5.2	98	0.00	8.60- 9.60
11		Tetryl	500.000	479.753	4.0	95	0.00	9.24-10.04
12		2,4,6-Trinitrotoluene	500.000	500.644	-0.1	102	-0.02	9.53-10.33
13		2-Amino-4,6-Dinitrotol	500.000	509.706	-1.9	104	0.00	10.12-10.92
14		4-Amino-2,6-Dinitrotol	500.000	493.516	1.3	102	-0.02	10.72-11.52
15	S	3,4-Dinitrotoluene	----------NA----------					
16		2,4-Dinitrotoluene	500.000	502.815	-0.6	103	0.00	11.69-12.49
17		2,6-Dinitrotoluene	500.000	516.662	-3.3	106	0.00	12.29-13.09
18		o-Nitrotoluene	500.000	483.258	3.3	102	-0.01	16.46-17.46
19		p-Nitrotoluene	500.000	484.378	3.1	100	-0.01	17.43-18.43
20		m-Nitrotoluene	500.000	476.002	4.8	99	0.00	19.04-20.04
21		PETN	2500.000	2841.491	-13.7	118	-0.01	25.37-27.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB029376.D 8330BPLUS.M Fri Sep 23 12:00:36 2011

Continuing Calibration Summary

Job Number: F86441 **Sample:** GBB651-CC642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029642.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\1006BPL\BB029642.D\dad1B.ch Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\1006BPL\BB029642.D\dad1A.ch
Acq On : 06-Oct-2011, 10:18:46 Operator: SHANNONL
Sample : CC642-500 Inst : G1315B
Misc : OP38919,GBB651,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Oct 07 08:19:14 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	498.326	0.3	102	0.00	0.99- 1.59
2	HMX	500.000	498.905	0.2	102	0.00	1.11- 1.71
3	DNX	500.000	475.125	5.0	104	0.00	1.36- 1.96
4	MNX	500.000	483.807	3.2	104	0.01	1.91- 2.51
5	RDX	500.000	469.000	6.2	106	0.02	2.35- 3.15
6	1,3,5-Trinitrobenzene	500.000	492.921	1.4	101	0.02	3.82- 4.62
7	1,3-Dinitrobenzene	500.000	505.844	-1.2	102	0.03	5.02- 5.82
8	3,5-Dinitroaniline	500.000	476.711	4.7	100	0.03	5.46- 6.26
9	Nitrobenzene	500.000	475.861	4.8	96	0.03	6.73- 7.53
10	Nitroglycerin	----------	NA	----------			
11	Tetryl	500.000	486.881	2.6	101	0.02	9.12- 9.92
12	2,4,6-Trinitrotoluene	500.000	506.261	-1.3	103	0.03	9.43-10.23
13	2-Amino-4,6-Dinitrotol	500.000	483.152	3.4	100	0.06	9.91-10.71
14	4-Amino-2,6-Dinitrotol	500.000	491.641	1.7	100	0.05	10.48-11.28
15 S	3,4-Dinitrotoluene	500.000	493.445	1.3	104	0.05	10.89-11.69
16	2,4-Dinitrotoluene	500.000	511.401	-2.3	105	0.06	11.55-12.35
17	2,6-Dinitrotoluene	500.000	501.662	-0.3	100	0.06	12.15-12.95
18	o-Nitrotoluene	500.000	445.622	10.9	94	0.10	16.27-17.27
19	p-Nitrotoluene	500.000	459.717	8.1	97	0.10	17.24-18.24
20	m-Nitrotoluene	500.000	428.628	14.3	95	0.11	18.83-19.83
21	PETN	----------	NA	----------			

***** Signal #2 *****

1	TNX	500.000	492.312	1.5	102	0.00	0.99- 1.59
2	HMX	500.000	485.075	3.0	102	0.00	1.11- 1.71
	----------	Amount	Calc.	%Drift	----------		
3	DNX	500.000	509.328	-1.9	102	0.00	1.36- 1.96
	----------	Amount	Calc.	%Drift	----------		
4	MNX	500.000	520.046	-4.0	105	0.01	1.91- 2.51
	----------	Amount	Calc.	%Drift	----------		
5	RDX	500.000	517.689	-3.5	102	0.02	2.35- 3.15
	----------	Amount	Calc.	%Drift	----------		
6	1,3,5-Trinitrobenzene	500.000	498.520	0.3	102	0.02	3.82- 4.62
7	1,3-Dinitrobenzene	500.000	498.957	0.2	107	0.03	5.02- 5.82
8	3,5-Dinitroaniline	500.000	501.798	-0.4	105	0.03	5.46- 6.26
9	Nitrobenzene	500.000	481.138	3.8	104	0.03	6.73- 7.53

Continuing Calibration Summary

Job Number: F86441 **Sample:** GBB651-CC642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029642.D
Project: Melrose Air Force Range, NM

10		Nitroglycerin	2500.000	2596.082	-3.8	107	0.05	8.45- 9.45
11		Tetryl	500.000	506.374	-1.3	101	0.03	9.11- 9.91
12		2,4,6-Trinitrotoluene	500.000	511.553	-2.3	104	0.03	9.43-10.23
13		2-Amino-4,6-Dinitrotol	500.000	509.091	-1.8	104	0.06	9.91-10.71
14		4-Amino-2,6-Dinitrotol	500.000	510.428	-2.1	105	0.06	10.47-11.27
15	S	3,4-Dinitrotoluene	500.000	511.496	-2.3	107	0.03	10.91-11.71
16		2,4-Dinitrotoluene	500.000	542.093	-8.4	111	0.06	11.55-12.35
17		2,6-Dinitrotoluene	500.000	557.733	-11.5	114	0.06	12.13-12.93
18		o-Nitrotoluene	500.000	521.107	-4.2	110	0.08	16.29-17.29
19		p-Nitrotoluene	500.000	503.608	-0.7	104	0.11	17.24-18.24
20		m-Nitrotoluene	500.000	480.193	4.0	100	0.12	18.81-19.81
21		PETN	2500.000	2472.420	1.1	102	0.13	24.90-26.90

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB029376.D 8330BPLUS.M Fri Oct 07 13:57:11 2011

Continuing Calibration Summary

Job Number: F86441 **Sample:** GBB651-CC642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029650.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\1006BPL\BB029650.D\dad1B.ch Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\1006BPL\BB029650.D\dad1A.ch
Acq On : 06-Oct-2011, 14:50:33 Operator: SHANNONL
Sample : CC642-1000 Inst : G1315B
Misc : OP38919,GBB651,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\1\METHODS\8330BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Fri Oct 07 08:19:14 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	1061.516	-6.2	110	0.00	0.99- 1.59
2	HMX	1000.000	1054.309	-5.4	109	0.00	1.11- 1.71
3	DNX	1000.000	1005.972	-0.6	110	0.00	1.36- 1.96
4	MNX	1000.000	1005.222	-0.5	110	0.00	1.91- 2.51
5	RDX	1000.000	966.998	3.3	109	0.00	2.35- 3.15
6	1,3,5-Trinitrobenzene	1000.000	1043.684	-4.4	109	0.00	3.82- 4.62
7	1,3-Dinitrobenzene	1000.000	1073.021	-7.3	111	0.00	5.02- 5.82
8	3,5-Dinitroaniline	1000.000	1008.966	-0.9	110	0.00	5.46- 6.26
9	Nitrobenzene	1000.000	945.274	5.5	97	0.00	6.73- 7.53
10	Nitroglycerin	----------	----------	NA	----------		
11	Tetryl	1000.000	1125.204	-12.5	118	0.00	9.12- 9.92
12	2,4,6-Trinitrotoluene	1000.000	966.498	3.4	99	-0.02	9.43-10.23
13	2-Amino-4,6-Dinitrotol	1000.000	1024.925	-2.5	109	0.00	9.91-10.71
14	4-Amino-2,6-Dinitrotol	1000.000	1124.887	-12.5	118	0.00	10.48-11.28
15 S	3,4-Dinitrotoluene	1000.000	915.228	8.5	98	0.00	10.89-11.69
16	2,4-Dinitrotoluene	1000.000	1101.250	-10.1	115	0.00	11.55-12.35
17	2,6-Dinitrotoluene	1000.000	1104.011	-10.4	115	-0.01	12.15-12.95
18	o-Nitrotoluene	1000.000	918.946	8.1	96	0.01	16.27-17.27
19	p-Nitrotoluene	1000.000	991.209	0.9	104	0.00	17.24-18.24
20	m-Nitrotoluene	1000.000	923.022	7.7	100	0.00	18.83-19.83
21	PETN	----------	----------	NA	----------		
*****	Signal #2 *****						
1	TNX	1000.000	1051.809	-5.2	109	0.00	0.99- 1.59
2	HMX	1000.000	1016.406	-1.6	109	0.00	1.11- 1.71
	----------	Amount	Calc.	%Drift	----------		
3	DNX	1000.000	1080.330	-8.0	110	0.00	1.36- 1.96
	----------	Amount	Calc.	%Drift	----------		
4	MNX	1000.000	1081.774	-8.2	110	0.00	1.91- 2.51
	----------	Amount	Calc.	%Drift	----------		
5	RDX	1000.000	1091.159	-9.1	109	0.00	2.35- 3.15
	----------	Amount	Calc.	%Drift	----------		
6	1,3,5-Trinitrobenzene	1000.000	1057.800	-5.8	109	0.00	3.82- 4.62
7	1,3-Dinitrobenzene	1000.000	1022.249	-2.2	110	0.00	5.02- 5.82
8	3,5-Dinitroaniline	1000.000	1034.859	-3.5	110	0.00	5.46- 6.26
9	Nitrobenzene	1000.000	906.953	9.3	97	0.00	6.73- 7.53

Continuing Calibration Summary

Job Number: F86441 **Sample:** GBB651-CC642
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** BB029650.D
Project: Melrose Air Force Range, NM

10		Nitroglycerin	5000.000	5308.892	-6.2	111	0.00	8.45- 9.45
11		Tetryl	1000.000	1249.087	-24.9#	124	0.00	9.11- 9.91
12		2,4,6-Trinitrotoluene	1000.000	876.392	12.4	90	-0.01	9.43-10.23
13		2-Amino-4,6-Dinitrotol	1000.000	1062.612	-6.3	109	0.00	9.91-10.71
14		4-Amino-2,6-Dinitrotol	1000.000	1166.546	-16.7#	121	0.00	10.47-11.27
15	S	3,4-Dinitrotoluene	1000.000	922.866	7.7	97	-0.02	10.91-11.71
16		2,4-Dinitrotoluene	1000.000	1091.622	-9.2	112	0.00	11.55-12.35
17		2,6-Dinitrotoluene	1000.000	1115.955	-11.6	113	0.00	12.13-12.93
18		o-Nitrotoluene	1000.000	905.012	9.5	95	0.00	16.29-17.29
19		p-Nitrotoluene	1000.000	933.369	6.7	96	-0.01	17.24-18.24
20		m-Nitrotoluene	1000.000	887.123	11.3	94	0.00	18.81-19.81
21		PETN	5000.000	4947.704	1.0	101	0.02	24.90-26.90

(#) = Out of Range SPCC's out = 0 CCC's out = 0
BB029377.D 8330BPLUS.M Fri Oct 07 14:05:31 2011

Initial Calibration Summary

Job Number: F86441 **Sample:** GGG1796-ICC1796
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** GG045886.D
Project: Melrose Air Force Range, NM

Response Factor Report G1315B

Method : C:\MSDCHEM\1\METHODS\8330_RPB.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Thu Sep 29 11:13:45 2011
Response via : Initial Calibration

Calibration Files
20 =GG045881.D 50 =GG045882.D 100 =GG045883.D 200 =GG045884.D
500 =GG045885.D 1000=GG045886.D 2000=GG045887.D

	Compound	20	50	100	200	500	1000	2000	Avg		%RSD
1)	TNX	7.007	7.536	7.243	7.240	7.320	7.185	7.195	7.246	E3	2.20
2)	HMX	2.478	2.798	2.642	2.565	2.571	2.505	2.506	2.581	E3	4.28
3)	DNX	7.655	7.604	7.205	6.977	6.934	6.795	6.783	7.136	E3	5.12
4)	MNX	4.864	5.062	5.117	5.188	5.286	5.222	5.244	5.140	E3	2.80
5)	1,3,5-Trinitroben	7.931	8.248	8.159	8.247	8.409	8.297	8.327	8.231	E3	1.86
6)	RDX	3.909	4.190	4.115	4.176	4.309	4.218	4.248	4.166	E3	3.09
7)	1,3-Dinitrobenzen	1.109	1.156	1.144	1.153	1.178	1.163	1.166	1.153	E4	1.92
8)	Nitrobenzene	7.172	7.267	7.457	7.468	7.396	7.626	7.569	7.422	E3	2.16
9)	2,4,6-Trinitrotol	7.743	7.929	8.016	8.054	8.256	8.158	8.182	8.048	E3	2.16
10)	Nitroglycerin								0.000		-1.00
11)	Tetryl	5.976	5.628	5.950	6.050	6.221	6.183	6.224	6.033	E3	3.51
12)S	3,4-Dinitrotoluen	4.764	4.608	4.825	4.850	4.971	4.910	4.921	4.836	E3	2.51
13)	2,6-Dinitrotoluen	5.490	5.474	5.468	5.588	5.687	5.619	5.633	5.566	E3	1.58
14)	2,4-Dinitrotoluen	1.063	1.046	1.045	1.064	1.083	1.073	1.075	1.064	E4	1.37
15)	o-Nitrotoluene	3.253	3.441	4.190	4.018	3.777	4.073	4.088	3.834	E3	9.39
16)	3,5-Dinitroanilin	0.972	1.006	0.954	0.983	0.990	0.971	1.007	0.983	E4	1.96
17)	p-Nitrotoluene	4.132	3.922	4.112	4.144	4.071	4.191	4.160	4.105	E3	2.16
18)	4-Amino-2,6-Dinit	5.176	5.564	5.554	5.613	5.714	5.681	5.684	5.569	E3	3.30
19)	m-Nitrotoluene	5.130	5.130	5.392	5.406	5.322	5.540	5.483	5.343	E3	3.02
20)	2-Amino-4,6-Dinit	7.679	7.987	7.870	7.808	7.980	7.911	7.907	7.878	E3	1.36
21)	PETN								0.000		-1.00

Signal #2

1)	TNX	1.122	1.119	1.120	1.101	1.104	1.081	1.081	1.104	E4	1.60
2)	HMX	8.266	8.346	8.478	8.206	8.179	7.974	7.975	8.203	E3	2.25
3)	DNX	1.511	1.249	1.363	1.314	1.198	1.141	1.121	1.271	E4	10.80
4)	MNX	7.065	7.697	7.840	8.090	8.286	8.227	8.282	7.927	E3	5.58
5)	1,3,5-Trinitroben	1.607	1.674	1.655	1.677	1.711	1.688	1.694	1.672	E4	2.01
6)	RDX	6.526	6.859	6.789	6.982	7.171	7.020	7.038	6.912	E3	3.04
7)	1,3-Dinitrobenzen	0.944	0.896	1.053	1.001	1.074	0.974	0.875	0.974	E4	7.70
8)	Nitrobenzene	9.506	7.978	8.216	7.108	6.787	6.878	6.883	7.622	E3	13.22
9)	2,4,6-Trinitrotol	1.060	1.159	1.102	1.128	1.080	1.075	1.077	1.097	E4	3.20
10)	Nitroglycerin	3.097	3.203	2.858	3.119	3.030	2.977	2.991	3.039	E3	3.70
11)	Tetryl	1.263	1.139	1.069	1.178	1.109	1.112	1.119	1.142	E4	5.53
12)S	3,4-Dinitrotoluen	8.730	9.189	9.479	9.799	9.619	9.469	9.548	9.405	E3	3.72
13)	2,6-Dinitrotoluen	8.004	9.206	7.887	9.068	8.454	8.349	8.393	8.480	E3	5.85
14)	2,4-Dinitrotoluen	1.268	0.773	0.705	0.833	0.784	0.775	0.781	0.845	E4	22.48

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 7784.04094 *A + 0.00893 *A^2

15)	o-Nitrotoluene	7.171	6.333	6.344	6.148	5.650	6.046	6.255	6.278	E3	7.33
16)	3,5-Dinitroanilin	1.949	1.556	1.528	1.629	1.676	1.624	1.586	1.650	E4	8.53
17)	p-Nitrotoluene	6.906	6.477	7.248	7.085	6.761	6.837	6.839	6.879	E3	3.55
18)	4-Amino-2,6-Dinit	1.288	1.107	1.090	1.144	1.134	1.133	1.137	1.148	E4	5.64
19)	m-Nitrotoluene	1.195	0.898	0.948	0.934	0.931	0.938	0.935	0.968	E4	10.45
20)	2-Amino-4,6-Dinit	1.740	1.177	1.274	1.166	1.163	1.141	1.143	1.258	E4	17.28

Initial Calibration Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM
Sample: GGG1796-ICC1796
Lab FileID: GG045886.D

```
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 11549.68980 *A + -0.06152 *A^2

21)  PETN              3.770 3.279 3.099 3.145 3.087 3.078 3.090 3.221 E3   7.82
-------------------------------------------------------------------------------
(#) = Out of Range

          8330_RPB.M        Thu Sep 29 14:34:06 2011
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Initial Calibration Verification

Job Number: F86441 **Sample:** GGG1796-ICV1796
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** GG045888.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\0928RPB\GG045888.D\dad1B.ch Vial: 9
Signal #2 : G:\DATA\0928RPB\GG045888.D\dad1A.ch
Acq On : 28-Sep-2011, 16:52:39 Operator: SHANNONL
Sample : ICV1796-500 Inst : G1315B
Misc : OP38721,GGG1796,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330_RPB.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Thu Sep 29 11:13:45 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	527.859	-5.6	105	0.00	4.05- 5.05
2	HMX	500.000	569.039	-13.8	114	0.00	4.44- 5.44
3	DNX	500.000	515.182	-3.0	106	0.00	4.59- 5.59
4	MNX	500.000	537.564	-7.5	105	0.00	5.60- 6.60
5	1,3,5-Trinitrobenzene	500.000	542.861	-8.6	106	0.00	6.47- 7.47
6	RDX	500.000	516.024	-3.2	100	0.00	6.76- 7.76
7	1,3-Dinitrobenzene	500.000	490.424	1.9	96	0.00	8.46- 9.46
8	Nitrobenzene	500.000	531.098	-6.2	107	0.00	9.19-10.19
9	2,4,6-Trinitrotoluene	500.000	500.059	-0.0	97	0.00	10.10-11.10
10	Nitroglycerin	----------	NA	----------			
11	Tetryl	500.000	506.079	-1.2	98	0.00	11.17-12.17
12 S	3,4-Dinitrotoluene	----------	NA	----------			
13	2,6-Dinitrotoluene	500.000	521.768	-4.4	102	0.00	12.47-13.47
14	2,4-Dinitrotoluene	500.000	512.411	-2.5	101	0.00	13.14-14.14
15	o-Nitrotoluene	500.000	529.676	-5.9	108	0.04	14.44-15.44
16	3,5-Dinitroaniline	500.000	556.215	-11.2	110	-0.03	14.66-15.66
17	p-Nitrotoluene	500.000	514.811	-3.0	104	0.00	15.39-16.39
18	4-Amino-2,6-Dinitrotol	500.000	515.088	-3.0	100	0.00	16.02-17.02
19	m-Nitrotoluene	500.000	519.881	-4.0	104	0.00	16.62-17.62
20	2-Amino-4,6-Dinitrotol	500.000	520.667	-4.1	103	0.00	18.15-19.15
21	PETN	----------	NA	----------			

***** Signal #2 *****

1	TNX	500.000	523.555	-4.7	105	0.00	4.05- 5.05
2	HMX	500.000	572.967	-14.6	115	0.00	4.44- 5.44
3	DNX	500.000	500.080	-0.0	106	0.00	4.59- 5.59
4	MNX	500.000	547.311	-9.5	105	0.00	5.60- 6.60
5	1,3,5-Trinitrobenzene	500.000	542.707	-8.5	106	0.00	6.47- 7.47
6	RDX	500.000	518.375	-3.7	100	0.00	6.76- 7.76
7	1,3-Dinitrobenzene	500.000	430.498	13.9	78	0.00	8.46- 9.46
8	Nitrobenzene	500.000	476.817	4.6	107	0.00	9.19-10.19
9	2,4,6-Trinitrotoluene	500.000	489.792	2.0	100	0.00	10.10-11.10
10	Nitroglycerin	2500.000	2531.267	-1.3	102	0.00	10.70-11.70
11	Tetryl	500.000	494.357	1.1	102	0.00	11.17-12.17
12 S	3,4-Dinitrotoluene	----------	NA	----------			
13	2,6-Dinitrotoluene	500.000	519.802	-4.0	104	0.00	12.47-13.47

		---------- Amount	Calc.	%Drift	----------		
14	2,4-Dinitrotoluene	500.000	512.787	-2.6	102	0.00	13.14-14.14

Initial Calibration Verification

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: GGG1796-ICV1796
Lab FileID: GG045888.D

		Amount	Calc.	%Drift			
15	o-Nitrotoluene	500.000	483.546	3.3	107	0.04	14.43-15.43
16	3,5-Dinitroaniline	500.000	535.928	-7.2	106	-0.02	14.66-15.66
17	p-Nitrotoluene	500.000	512.849	-2.6	104	0.00	15.39-16.39
18	4-Amino-2,6-Dinitrotol	500.000	499.757	0.0	101	0.00	16.02-17.02
19	m-Nitrotoluene	500.000	495.759	0.8	103	0.00	16.61-17.61

		Amount	Calc.	%Drift			
20	2-Amino-4,6-Dinitrotol	500.000	522.617	-4.5	104	0.00	18.15-19.15

		Amount	Calc.	%Drift			
21	PETN	2500.000	2856.246	-14.2	119	0.00	19.75-20.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG045885.D 8330_RPB.M Thu Sep 29 14:33:29 2011

Continuing Calibration Summary

Job Number: F86441 **Sample:** GGG1800-CC1796
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** GG046074.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\1005RPB\GG046074.D\dad1B.ch Vial: 91
Signal #2 : G:\DATA\1005RPB\GG046074.D\dad1A.ch
Acq On : 06-Oct-2011, 08:51:40 Operator: SHANNONL
Sample : CC1796-1000 Inst : G1315B
Misc : OP38899,GGG1800,2.00,,,20,,SOIL Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330_RPB.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Thu Oct 06 07:52:32 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1		TNX	1000.000	990.727	0.9	100	0.00	4.04- 5.04
2		HMX	1000.000	980.340	2.0	101	0.00	4.44- 5.44
3		DNX	1000.000	947.679	5.2	100	0.00	4.59- 5.59
4		MNX	1000.000	1007.852	-0.8	99	0.01	5.59- 6.59
5		1,3,5-Trinitrobenzene	1000.000	1011.223	-1.1	100	0.02	6.45- 7.45
6		RDX	1000.000	1018.051	-1.8	101	0.02	6.75- 7.75
7		1,3-Dinitrobenzene	1000.000	1020.275	-2.0	101	0.03	8.44- 9.44
8		Nitrobenzene	1000.000	1024.456	-2.4	100	0.04	9.17-10.17
9		2,4,6-Trinitrotoluene	1000.000	1015.944	-1.6	100	0.04	10.06-11.06
10		Nitroglycerin	----------	NA	----------			
11		Tetryl	1000.000	1031.843	-3.2	101	0.05	11.12-12.12
12	S	3,4-Dinitrotoluene	1000.000	1018.711	-1.9	100	0.06	11.81-12.81
13		2,6-Dinitrotoluene	1000.000	1010.893	-1.1	100	0.05	12.44-13.44
14		2,4-Dinitrotoluene	1000.000	1008.876	-0.9	100	0.06	13.10-14.10
15		o-Nitrotoluene	1000.000	1216.000	-21.6#	114	0.00	14.44-15.44
16		3,5-Dinitroaniline	----------	NA	----------			
17		p-Nitrotoluene	1000.000	970.545	2.9	95	0.07	15.36-16.36
18		4-Amino-2,6-Dinitrotol	1000.000	1006.821	-0.7	99	0.07	16.00-17.00
19		m-Nitrotoluene	1000.000	1007.278	-0.7	97	0.08	16.59-17.59
20		2-Amino-4,6-Dinitrotol	1000.000	999.489	0.1	100	0.08	18.14-19.14
21		PETN	----------	NA	----------			

***** Signal #2 *****

1		TNX	1000.000	976.083	2.4	100	0.00	4.04- 5.04
2		HMX	1000.000	975.366	2.5	100	0.00	4.44- 5.44
3		DNX	1000.000	917.810	8.2	102	0.00	4.58- 5.58
4		MNX	1000.000	1028.431	-2.8	99	0.01	5.59- 6.59
5		1,3,5-Trinitrobenzene	1000.000	1013.081	-1.3	100	0.02	6.45- 7.45
6		RDX	1000.000	1030.137	-3.0	101	0.02	6.75- 7.75
7		1,3-Dinitrobenzene	1000.000	971.523	2.8	97	0.03	8.44- 9.44
8		Nitrobenzene	1000.000	1078.812	-7.9	120	0.03	9.17-10.17
9		2,4,6-Trinitrotoluene	1000.000	1006.660	-0.7	103	0.04	10.06-11.06
10		Nitroglycerin	5000.000	4787.708	4.2	98	0.05	10.66-11.66
11		Tetryl	1000.000	995.701	0.4	102	0.04	11.13-12.13
12	S	3,4-Dinitrotoluene	1000.000	1040.507	-4.1	103	0.06	11.81-12.81
13		2,6-Dinitrotoluene	1000.000	1007.535	-0.8	102	0.05	12.44-13.44

		----------	Amount	Calc.	%Drift	----------		
14		2,4-Dinitrotoluene	1000.000	1022.001	-2.2	103	0.06	13.11-14.11

Continuing Calibration Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: GGG1800-CC1796
Lab FileID: GG046074.D

		Amount	Calc.	%Drift			
15	o-Nitrotoluene	1000.000	1128.407	-12.8	117	0.00	14.45-15.45
16	3,5-Dinitroaniline			NA			
17	p-Nitrotoluene	1000.000	962.114	3.8	97	0.07	15.36-16.36
18	4-Amino-2,6-Dinitrotol	1000.000	980.791	1.9	99	0.07	16.00-17.00
19	m-Nitrotoluene	1000.000	956.735	4.3	99	0.08	16.59-17.59

		Amount	Calc.	%Drift			
20	2-Amino-4,6-Dinitrotol	1000.000	988.487	1.2	100	0.08	18.14-19.14

		Amount	Calc.	%Drift			
21	PETN	5000.000	4846.954	3.1	101	0.11	19.66-20.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG045886.D 8330_RPB.M Fri Oct 07 10:31:33 2011

Continuing Calibration Summary

Job Number: F86441 **Sample:** GGG1800-ECC1796
Account: BBAFLFWB Trinity Analysis & Development Corp **Lab FileID:** GG046082.D
Project: Melrose Air Force Range, NM

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\1005RPB\GG046082.D\dad1B.ch Vial: 3
Signal #2 : G:\DATA\1005RPB\GG046082.D\dad1A.ch
Acq On : 06-Oct-2011, 12:42:41 Operator: SHANNONL
Sample : ECC1796-1000 Inst : G1315B
Misc : OP38919,GGG1800,1000,,,10,,WATER Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330_RPB.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Thu Oct 06 07:52:32 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1		TNX	1000.000	967.058	3.3	98	0.00	4.04- 5.04
2		HMX	1000.000	937.860	6.2	97	0.00	4.44- 5.44
3		DNX	1000.000	930.906	6.9	98	0.00	4.59- 5.59
4		MNX	1000.000	980.540	1.9	97	-0.02	5.59- 6.59
5		1,3,5-Trinitrobenzene	1000.000	971.808	2.8	96	-0.01	6.45- 7.45
6		RDX	1000.000	985.504	1.4	97	-0.02	6.75- 7.75
7		1,3-Dinitrobenzene	1000.000	980.189	2.0	97	-0.02	8.44- 9.44
8		Nitrobenzene	1000.000	991.127	0.9	96	-0.02	9.17-10.17
9		2,4,6-Trinitrotoluene	1000.000	986.797	1.3	97	-0.02	10.06-11.06
10		Nitroglycerin	----------		NA	----------		
11		Tetryl	1000.000	973.463	2.7	95	-0.03	11.12-12.12
12	S	3,4-Dinitrotoluene	1000.000	981.603	1.8	97	-0.03	11.81-12.81
13		2,6-Dinitrotoluene	1000.000	982.355	1.8	97	-0.03	12.44-13.44
14		2,4-Dinitrotoluene	1000.000	977.226	2.3	97	-0.04	13.10-14.10
15		o-Nitrotoluene	1000.000	1060.954	-6.1	100	-0.01	14.44-15.44
16		3,5-Dinitroaniline	1000.000	957.976	4.2	97	-0.06	14.64-15.64
17		p-Nitrotoluene	1000.000	984.326	1.6	96	-0.04	15.36-16.36
18		4-Amino-2,6-Dinitrotol	1000.000	982.795	1.7	96	-0.06	16.00-17.00
19		m-Nitrotoluene	1000.000	993.467	0.7	96	-0.05	16.59-17.59
20		2-Amino-4,6-Dinitrotol	1000.000	970.551	2.9	97	-0.06	18.14-19.14
21		PETN	----------		NA	----------		

***** Signal #2 *****

1		TNX	1000.000	957.964	4.2	98	0.00	4.04- 5.04
2		HMX	1000.000	935.277	6.5	96	0.00	4.44- 5.44
3		DNX	1000.000	868.050	13.2	97	0.00	4.58- 5.58
4		MNX	1000.000	995.219	0.5	96	-0.02	5.59- 6.59
5		1,3,5-Trinitrobenzene	1000.000	973.896	2.6	96	-0.01	6.45- 7.45
6		RDX	1000.000	994.493	0.6	98	-0.02	6.75- 7.75
7		1,3-Dinitrobenzene	1000.000	898.277	10.2	90	-0.02	8.44- 9.44
8		Nitrobenzene	1000.000	930.155	7.0	103	-0.02	9.17-10.17
9		2,4,6-Trinitrotoluene	1000.000	1024.233	-2.4	105	-0.02	10.06-11.06
10		Nitroglycerin	5000.000	4792.500	4.2	98	-0.02	10.66-11.66
11		Tetryl	1000.000	941.317	5.9	97	-0.04	11.13-12.13
12	S	3,4-Dinitrotoluene	1000.000	998.035	0.2	99	-0.03	11.81-12.81
13		2,6-Dinitrotoluene	1000.000	979.733	2.0	100	-0.03	12.44-13.44

			Amount	Calc.	%Drift			
14		2,4-Dinitrotoluene	1000.000	1002.289	-0.2	101	-0.04	13.11-14.11

Continuing Calibration Summary

Job Number: F86441
Account: BBAFLFWB Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Sample: GGG1800-ECC1796
Lab FileID: GG046082.D

		Amount	Calc.	%Drift			
15	o-Nitrotoluene	1000.000	955.599	4.4	99	-0.04	14.45-15.45
16	3,5-Dinitroaniline	1000.000	997.664	0.2	101	-0.07	14.65-15.65
17	p-Nitrotoluene	1000.000	981.532	1.8	99	-0.04	15.36-16.36
18	4-Amino-2,6-Dinitrotol	1000.000	958.076	4.2	97	-0.06	16.00-17.00
19	m-Nitrotoluene	1000.000	946.497	5.4	98	-0.05	16.59-17.59

		Amount	Calc.	%Drift			
20	2-Amino-4,6-Dinitrotol	1000.000	967.080	3.3	97	-0.06	18.14-19.14

		Amount	Calc.	%Drift			
21	PETN	5000.000	4522.661	9.5	95	-0.05	19.66-20.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG045886.D 8330_RPB.M Thu Oct 06 14:01:21 2011

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:40	MA9264-STD1	1		STDA
06:44	MA9264-STD2	1		STDB
06:47	MA9264-STD3	1		STDC
06:51	MA9264-HSTD1	1		
06:56	MA9264-ICV1	1		
07:02	MA9264-ICB1	1		
07:06	MA9264-CRIA1	1		
07:30	MA9264-CRIA2	1		
07:37	MA9264-ICSA1	1		
07:44	MA9264-ICSAB1	1		
07:47	MA9264-CCV1	1		
07:51	MA9264-CCB1	1		
09:22	MA9264-CCV2	1		
09:28	MA9264-CCB2	1		
09:32	ZZZZZZ	20		
09:36	ZZZZZZ	10		
09:40	ZZZZZZ	10		
09:44	ZZZZZZ	4		
09:48	ZZZZZZ	20		
09:53	ZZZZZZ	4		
09:57	ZZZZZZ	5		
10:01	MP21446-MB1	1		
10:05	ZZZZZZ	2		
10:09	ZZZZZZ	5		
10:13	MA9264-CCV3	1		
10:17	MA9264-CCB3	1		
10:45	MA9264-CCV4	1		
10:50	MA9264-CCB4	1		
10:55	ZZZZZZ	10		
10:59	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:11	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:19	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:27	ZZZZZZ	1		
11:35	MA9264-CCV5	1		
11:39	MA9264-CCB5	1		
11:43	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:56	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:04	MA9264-CCV6	1		
12:08	MA9264-CCB6	1		
12:47	MP21450-MB1	1		
12:51	MP21450-B1	1		
13:29	MA9264-CCV7	1		
13:34	MA9264-CCB7	1		
13:59	MA9264-CCV8	1		
14:06	MA9264-CCB8	1		
14:32	ZZZZZZ	1		
14:36	MA9264-CCV9	1		
14:40	MA9264-CCB9	1		
14:58	MA9264-CCV10	1		
15:03	MA9264-CCB10	1		
15:07	MP21456-MB1	1		
15:11	MP21456-B1	1		
15:15	F86391-1	1		(sample used for QC only; not part of login F86441)
15:20	MP21456-D1	1		
15:24	MP21456-SD1	5		
15:28	MP21456-PS1	1		
15:32	MP21456-S1	1		
15:36	MP21456-S2	1		
15:40	ZZZZZZ	1		
15:45	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:49	MA9264-CCV11	1		
15:53	MA9264-CCB11	1		
15:57	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:10	ZZZZZZ	1		
16:14	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:23	F86441-1	1		
16:27	F86441-1F	1		
16:32	MP21456-MB2A	1		
---------->	Last reportable sample/prep for job F86441			
16:40	MA9264-CCV12	1		
16:44	MA9264-CCB12	1		
17:30	MA9264-CCV13	1		
17:34	MA9264-CCB13	1		
17:38	MA9264-CRIA3	1		
17:43	MA9264-ICSA2	1		
17:47	MA9264-ICSAB2	1		
17:51	MA9264-CCV14	1		
17:55	MA9264-CCB14	1		
---------->	Last reportable CCB for job F86441			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:40	MA9264-STD1	5814	52293	1691	2560
06:44	MA9264-STD2	5761	51446	1762	2230
06:47	MA9264-STD3	5491	49543	1751	2026
06:51	MA9264-HSTD1	5500	49384	1740	2016
06:56	MA9264-ICV1	5734	51206	1765	2213
07:02	MA9264-ICB1	5803 R	52128 R	1692 R	2563 R
07:06	MA9264-CRIA1	5916	52929	1773	2547
07:30	MA9264-CRIA2	5855	51948	1779	
07:37	MA9264-ICSA1	5126	44464	1661	1739
07:44	MA9264-ICSAB1	5129	44615	1642	1718
07:47	MA9264-CCV1	5666	50249	1750	2206
07:51	MA9264-CCB1	5817	52047	1709	2574
09:22	MA9264-CCV2	6099	51272	1776	2257
09:28	MA9264-CCB2	6191	52395	1714	2607
09:32	ZZZZZZ	6185	51637	1911	2314
09:36	ZZZZZZ	6076	51745	1878	2287
09:40	ZZZZZZ	6161	53190	1825	2345
09:44	ZZZZZZ	6261	54142	1774	2209
09:48	ZZZZZZ	6191	52766	1814	2346
09:53	ZZZZZZ	6318	53679	1822	2359
09:57	ZZZZZZ	5776	49701	1717	2171
10:01	MP21446-MB1	6226	55004	1693	2628
10:05	ZZZZZZ	7724 !	65548 !	2068	2592
10:09	ZZZZZZ	6795	57630	1865	2396
10:13	MA9264-CCV3	6252	53875	1804	2329
10:17	MA9264-CCB3	6561	57069	1802	2763
10:45	MA9264-CCV4	5963	51686	1711	2233
10:50	MA9264-CCB4	6003	53038	1621	2541
10:55	ZZZZZZ	6822	58806	1838	2373
10:59	ZZZZZZ	7566 !	65318 !	2104	2192
11:03	ZZZZZZ	6532	56475	1763	2411
11:07	ZZZZZZ	7971 !	68826 !	2111	2421
11:11	ZZZZZZ	7319 !	62832	1947	2398

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:19	ZZZZZZ	6795	58331	1792	2309
11:23	ZZZZZZ	7891 !	67198 !	2055	2397
11:27	ZZZZZZ	7291 !	61705	1938	2191
11:35	MA9264-CCV5	6064	52743	1683	2267
11:39	MA9264-CCB5	6124	53949	1609	2590
11:43	ZZZZZZ	6781	57246	1755	2248
11:47	ZZZZZZ	8114 !	70037 !	2089	2489
11:52	ZZZZZZ	7161	60581	1839	2298
11:56	ZZZZZZ	6623	56130	1726	2202
12:00	ZZZZZZ	7468 !	63027	1953	2302
12:04	MA9264-CCV6	6120	52673	1665	2274
12:08	MA9264-CCB6	6154	54050	1591	2598
12:47	MP21450-MB1	6210	55414	1586	2643
12:51	MP21450-B1	6018	52501	1595	2347
13:29	MA9264-CCV7	6066	52464	1447	2247
13:34	MA9264-CCB7	6176	54035	1405	2602
13:59	MA9264-CCV8	5952	52034	1407	2225
14:06	MA9264-CCB8	6026	53893	1377	2569
14:32	ZZZZZZ	10760 !	92703 !	2201 !	1933
14:36	MA9264-CCV9	6019	52535	1229	2245
14:40	MA9264-CCB9	6136	54297	1206	2602
14:58	MA9264-CCV10	5544	51117	1227	2041
15:03	MA9264-CCB10	6091	53634	1213	2581
15:07	MP21456-MB1	6093	53071	1211	2583
15:11	MP21456-B1	5955	51950	1222	2308
15:15	F86391-1	5996	53074	1200	2469
15:20	MP21456-D1	6015	53357	1218	2482
15:24	MP21456-SD1	6076	53600	1211	2543
15:28	MP21456-PS1	5970	52156	1190	2388
15:32	MP21456-S1	5875	50958	1190	2243
15:36	MP21456-S2	5920	51565	1208	2265
15:40	ZZZZZZ	6064	53945	1246	2501
15:45	ZZZZZZ	5975	53289	1212	2455

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9264
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:49	MA9264-CCV11	5972	52298	1232	2224
15:53	MA9264-CCB11	6117	54281	1216	2596
15:57	ZZZZZZ	5836	51750	1204	2361
16:01	ZZZZZZ	6013	53641	1196	2516
16:06	ZZZZZZ	5787	51809	1233	2336
16:10	ZZZZZZ	5929	53533	1217	2485
16:14	ZZZZZZ	6035	54433	1207	2533
16:19	ZZZZZZ	5929	53192	1187	2477
16:23	F86441-1	4997	43063	1227	1811
16:27	F86441-1F	4972	43484	1243	1823
16:32	MP21456-MB2A	6008	56495	1198	2602
16:40	MA9264-CCV12	5823	52887	1223	2227
16:44	MA9264-CCB12	5968	54809	1199	2593
17:30	MA9264-CCV13	5647	51885	1171	2192
17:34	MA9264-CCB13	5821	54343	1156	2560
17:38	MA9264-CRIA3	5863	54570	1201	2515
17:43	MA9264-ICSA2	5150	46115	1081	1721
17:47	MA9264-ICSAB2	5142	46050	1064	1719
17:51	MA9264-CCV14	5632	52121	1136	2201
17:55	MA9264-CCB14	5795	54145	1107	2552

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9264 Units: ug/l

Time: / Sample ID:			07:02 ICB1		07:51 CCB1		09:28 CCB2		10:17 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	24	-15	<200	-9.0	<200	-1.6	<200	-1.5	<200
Antimony	6.0	1	-0.40	<6.0	1.6	<6.0	0.60	<6.0	0.30	<6.0
Arsenic	10	1	0.30	<10	1.0	<10	0.80	<10	0.40	<10
Barium	200	4	-0.40	<200	0.0	<200	-0.80	<200	-1.3	<200
Beryllium	4.0	.1	-0.10	<4.0	0.10	<4.0	0.20	<4.0	0.20	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	2.3	<1000	9.0	<1000	10.2	<1000	-0.50	<1000
Chromium	10	1	0.0	<10	-0.10	<10	0.20	<10	0.10	<10
Cobalt	50	1	-0.10	<50	0.20	<50	0.20	<50	0.30	<50
Copper	25	1	0.30	<25	0.70	<25	-3.5	<25	-3.6	<25
Iron	300	23	-1.5	<300	16.2	<300	10.7	<300	12.5	<300
Lead	5.0	1	0.10	<5.0	0.40	<5.0	0.40	<5.0	0.30	<5.0
Magnesium	5000	50	-20	<5000	-8.2	<5000	-22	<5000	3.7	<5000
Manganese	15	1	0.0	<15	0.20	<15	0.20	<15	0.30	<15
Molybdenum	50	1	anr							
Nickel	40	1	0.20	<40	0.0	<40	0.40	<40	0.30	<40
Potassium	10000	50	132	<10000	114	<10000	40.7	<10000	31.1	<10000
Selenium	10	2	-0.90	<10	-0.70	<10	-0.90	<10	-0.20	<10
Silver	10	1	-0.10	<10	0.10	<10	0.20	<10	-0.10	<10
Sodium	10000	850	21.6	<10000	22.1	<10000	-3.2	<10000	9.0	<10000
Strontium	10	1								
Thallium	10	1.5	0.50	<10	-0.20	<10	-0.10	<10	0.40	<10
Tin	50	1	anr							
Titanium	10	1								
Vanadium	50	1	0.0	<50	0.0	<50	0.10	<50	0.30	<50
Zinc	20	1	-0.10	<20	0.80	<20	0.40	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9264 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	10:50 CCB4 raw	final	11:39 CCB5 raw	final	12:08 CCB6 raw	final	13:34 CCB7 raw	final
Aluminum	200	24	5.1	<200	-0.50	<200	-11	<200	-1.9	<200
Antimony	6.0	1	1.1	<6.0	1.2	<6.0	1.0	<6.0	0.40	<6.0
Arsenic	10	1	1.1	<10	1.2	<10	1.2	<10	0.40	<10
Barium	200	4	0.20	<200	0.90	<200	1.4	<200	0.40	<200
Beryllium	4.0	.1	0.20	<4.0	0.20	<4.0	0.40	<4.0	0.0	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.10	<5.0	0.20	<5.0	-0.20	<5.0
Calcium	1000	50	5.2	<1000	5.1	<1000	3.1	<1000	-12	<1000
Chromium	10	1	0.10	<10	0.30	<10	0.40	<10	0.10	<10
Cobalt	50	1	0.10	<50	0.10	<50	0.30	<50	-0.10	<50
Copper	25	1	0.70	<25	0.60	<25	0.40	<25	0.20	<25
Iron	300	23	-1.8	<300	4.8	<300	12.3	<300	-5.5	<300
Lead	5.0	1	0.10	<5.0	0.20	<5.0	0.30	<5.0	-0.40	<5.0
Magnesium	5000	50	26.9	<5000	77.1	<5000	26.8	<5000	23.4	<5000
Manganese	15	1	0.0	<15	0.10	<15	0.20	<15	-0.10	<15
Molybdenum	50	1	anr							
Nickel	40	1	0.10	<40	0.10	<40	0.30	<40	-0.10	<40
Potassium	10000	50	34.7	<10000	130	<10000	132	<10000	308	<10000
Selenium	10	2	0.50	<10	-0.70	<10	0.70	<10	0.10	<10
Silver	10	1	0.0	<10	0.30	<10	-0.10	<10	0.0	<10
Sodium	10000	850	32.8	<10000	29.6	<10000	19.5	<10000	34.4	<10000
Strontium	10	1								
Thallium	10	1.5	0.70	<10	1.2	<10	0.40	<10	0.90	<10
Tin	50	1	anr							
Titanium	10	1								
Vanadium	50	1	0.20	<50	0.20	<50	0.20	<50	-0.20	<50
Zinc	20	1	1.9	<20	0.20	<20	0.30	<20	-0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9264 Units: ug/l

Time: / Sample ID:			14:06 CCB8		14:40 CCB9		15:03 CCB10		15:53 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	24	3.8	<200	10.8	<200	1.6	<200	19.8	<200
Antimony	6.0	1	1.3	<6.0	1.8	<6.0	2.0	<6.0	1.6	<6.0
Arsenic	10	1	0.10	<10	0.90	<10	1.3	<10	0.40	<10
Barium	200	4	-0.20	<200	0.40	<200	1.5	<200	1.0	<200
Beryllium	4.0	.1	-0.10	<4.0	0.10	<4.0	0.10	<4.0	0.10	<4.0
Cadmium	5.0	.1	0.0	<5.0	0.0	<5.0	0.10	<5.0	0.10	<5.0
Calcium	1000	50	-4.7	<1000	-3.0	<1000	-2.7	<1000	0.50	<1000
Chromium	10	1	0.0	<10	0.10	<10	0.10	<10	0.10	<10
Cobalt	50	1	0.10	<50	0.10	<50	0.20	<50	0.20	<50
Copper	25	1	0.40	<25	0.20	<25	0.30	<25	0.20	<25
Iron	300	23	3.2	<300	10.7	<300	2.3	<300	11.1	<300
Lead	5.0	1	0.10	<5.0	0.10	<5.0	0.0	<5.0	0.10	<5.0
Magnesium	5000	50	-48	<5000	15.9	<5000	-76	<5000	23.7	<5000
Manganese	15	1	0.0	<15	0.10	<15	0.10	<15	0.20	<15
Molybdenum	50	1	anr							
Nickel	40	1	0.0	<40	-0.10	<40	-0.10	<40	0.10	<40
Potassium	10000	50	74.0	<10000	387	<10000	189	<10000	146	<10000
Selenium	10	2	-0.70	<10	-0.60	<10	0.60	<10	0.70	<10
Silver	10	1	0.20	<10	0.10	<10	0.0	<10	0.30	<10
Sodium	10000	850	43.9	<10000	32.3	<10000	24.1	<10000	21.5	<10000
Strontium	10	1								
Thallium	10	1.5	0.60	<10	0.40	<10	0.10	<10	0.40	<10
Tin	50	1	anr							
Titanium	10	1								
Vanadium	50	1	0.10	<50	0.10	<50	0.0	<50	-0.10	<50
Zinc	20	1	0.70	<20	0.10	<20	0.70	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9264 Units: ug/l

Time: / Sample ID:			16:44 CCB12		17:34 CCB13		17:55 CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	24	27.2	<200	14.7	<200	12.8	<200
Antimony	6.0	1	1.6	<6.0	1.0	<6.0	1.7	<6.0
Arsenic	10	1	0.60	<10	0.70	<10	0.60	<10
Barium	200	4	0.80	<200	0.40	<200	0.30	<200
Beryllium	4.0	.1	0.20	<4.0	0.30	<4.0	0.30	<4.0
Cadmium	5.0	.1	0.10	<5.0	0.20	<5.0	0.20	<5.0
Calcium	1000	50	-5.4	<1000	3.3	<1000	1.4	<1000
Chromium	10	1	0.0	<10	0.20	<10	0.20	<10
Cobalt	50	1	0.30	<50	0.30	<50	0.30	<50
Copper	25	1	0.70	<25	1.0	<25	0.90	<25
Iron	300	23	16.4	<300	15.1	<300	14.1	<300
Lead	5.0	1	-0.20	<5.0	-0.10	<5.0	0.20	<5.0
Magnesium	5000	50	-40	<5000	-2.1	<5000	-57	<5000
Manganese	15	1	0.20	<15	0.30	<15	0.30	<15
Molybdenum	50	1	anr					
Nickel	40	1	0.30	<40	0.30	<40	0.50	<40
Potassium	10000	50	-37	<10000	-17	<10000	-64	<10000
Selenium	10	2	0.40	<10	0.80	<10	0.40	<10
Silver	10	1	0.20	<10	0.10	<10	0.10	<10
Sodium	10000	850	197	<10000	73.9	<10000	88.4	<10000
Strontium	10	1						
Thallium	10	1.5	0.50	<10	0.80	<10	0.60	<10
Tin	50	1	anr					
Titanium	10	1						
Vanadium	50	1	-0.10	<50	0.0	<50	0.20	<50
Zinc	20	1	0.20	<20	0.30	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9264 Units: ug/l

Time:		06:56			07:47			09:22	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	40500	101.3	40000	40500	101.3
Antimony	2000	1980	99.0	2000	2000	100.0	2000	1850	92.5
Arsenic	2000	1930	96.5	2000	2000	100.0	2000	1950	97.5
Barium	2000	2010	100.5	2000	2040	102.0	2000	1870	93.5
Beryllium	2000	1960	98.0	2000	2020	101.0	2000	1980	99.0
Cadmium	2000	1990	99.5	2000	2060	103.0	2000	1950	97.5
Calcium	40000	40400	101.0	40000	40600	101.5	40000	41900	104.8
Chromium	2000	2010	100.5	2000	2040	102.0	2000	2050	102.5
Cobalt	2000	2010	100.5	2000	2060	103.0	2000	1940	97.0
Copper	2000	2020	101.0	2000	2030	101.5	2000	2080	104.0
Iron	40000	39600	99.0	40000	41000	102.5	40000	42400	106.0
Lead	2000	1950	97.5	2000	1980	99.0	2000	1990	99.5
Magnesium	40000	38900	97.3	40000	39400	98.5	40000	40500	101.3
Manganese	2000	2010	100.5	2000	2090	104.5	2000	2160	108.0
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2060	103.0	2000	1980	99.0
Potassium	40000	39900	99.8	40000	40400	101.0	40000	40100	100.3
Selenium	2000	2010	100.5	2000	2020	101.0	2000	1920	96.0
Silver	250	254	101.6	250	254	101.6	250	254	101.6
Sodium	40000	40800	102.0	40000	40800	102.0	40000	40100	100.3
Strontium									
Thallium	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Tin	anr								
Titanium									
Vanadium	2000	2010	100.5	2000	2050	102.5	2000	2110	105.5
Zinc	2000	1960	98.0	2000	2020	101.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9264 Units: ug/l

Time:		10:13			10:45			11:35	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38800	97.0	40000	41000	102.5	40000	40800	102.0
Antimony	2000	1790	90.0	2000	2040	102.0	2000	2020	101.0
Arsenic	2000	1880	94.0	2000	2080	104.0	2000	2070	103.5
Barium	2000	1810	90.5	2000	2050	102.5	2000	2040	102.0
Beryllium	2000	1910	95.5	2000	2050	102.5	2000	2030	101.5
Cadmium	2000	1860	93.0	2000	2080	104.0	2000	2070	103.5
Calcium	40000	39600	99.0	40000	41400	103.5	40000	41100	102.8
Chromium	2000	1930	96.5	2000	2050	102.5	2000	2070	103.5
Cobalt	2000	1860	93.0	2000	2080	104.0	2000	2070	103.5
Copper	2000	2020	101.0	2000	2060	103.0	2000	2030	101.5
Iron	40000	40300	100.8	40000	41800	104.5	40000	41300	103.3
Lead	2000	1890	94.5	2000	2010	100.5	2000	2010	100.5
Magnesium	40000	37900	94.8	40000	40800	102.0	40000	40300	100.8
Manganese	2000	2020	101.0	2000	2110	105.5	2000	2120	106.0
Molybdenum	anr								
Nickel	2000	1900	95.0	2000	2090	104.5	2000	2090	104.5
Potassium	40000	39200	98.0	40000	40500	101.3	40000	40900	102.3
Selenium	2000	1870	93.5	2000	2080	104.0	2000	2060	103.0
Silver	250	242	96.8	250	254	101.6	250	256	102.4
Sodium	40000	39400	98.5	40000	40600	101.5	40000	41100	102.8
Strontium									
Thallium	2000	1920	96.0	2000	2040	102.0	2000	2030	101.5
Tin	anr								
Titanium									
Vanadium	2000	1980	99.0	2000	2060	103.0	2000	2080	104.0
Zinc	2000	1900	95.0	2000	2090	104.5	2000	2100	105.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9264 Units: ug/l

Time:		12:04			13:29			13:59	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	41300	103.3	40000	40100	100.3
Antimony	2000	2030	101.5	2000	2060	103.0	2000	2000	100.0
Arsenic	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Barium	2000	2060	103.0	2000	2110	105.5	2000	2000	100.0
Beryllium	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Cadmium	2000	2080	104.0	2000	2100	105.0	2000	2040	102.0
Calcium	40000	40500	101.3	40000	40100	100.3	40000	40500	101.3
Chromium	2000	2080	104.0	2000	2090	104.5	2000	2050	102.5
Cobalt	2000	2070	103.5	2000	2090	104.5	2000	2040	102.0
Copper	2000	2060	103.0	2000	2060	103.0	2000	1990	99.5
Iron	40000	40500	101.3	40000	39500	98.8	40000	40900	102.3
Lead	2000	2010	100.5	2000	2030	101.5	2000	1980	99.0
Magnesium	40000	39700	99.3	40000	38600	96.5	40000	40100	100.3
Manganese	2000	2080	104.0	2000	2060	103.0	2000	2060	103.0
Molybdenum	anr								
Nickel	2000	2070	103.5	2000	2080	104.0	2000	2040	102.0
Potassium	40000	40800	102.0	40000	44200	110.0	40000	40100	100.3
Selenium	2000	2050	102.5	2000	2050	102.5	2000	2020	101.0
Silver	250	256	102.4	250	258	103.2	250	253	101.2
Sodium	40000	41200	103.0	40000	43900	109.8	40000	40600	101.5
Strontium									
Thallium	2000	2040	102.0	2000	2060	103.0	2000	2010	100.5
Tin	anr								
Titanium									
Vanadium	2000	2040	102.0	2000	2030	101.5	2000	2040	102.0
Zinc	2000	2060	103.0	2000	2050	102.5	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9264 Units: ug/l

Time:		14:36			14:58			15:49	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40500	101.3	40000	40700	101.8	40000	40500	101.3
Antimony	2000	2010	100.5	2000	2050	102.5	2000	2030	101.5
Arsenic	2000	1980	99.0	2000	1950	97.5	2000	1980	99.0
Barium	2000	2050	102.5	2000	2100	105.0	2000	2090	104.5
Beryllium	2000	2000	100.0	2000	2000	100.0	2000	1980	99.0
Cadmium	2000	2040	102.0	2000	2070	103.5	2000	2040	102.0
Calcium	40000	39400	98.5	40000	39200	98.0	40000	38500	96.3
Chromium	2000	2040	102.0	2000	2050	102.5	2000	2040	102.0
Cobalt	2000	2040	102.0	2000	2080	104.0	2000	2040	102.0
Copper	2000	2010	100.5	2000	2020	101.0	2000	2010	100.5
Iron	40000	39100	97.8	40000	38800	97.0	40000	38200	95.5
Lead	2000	1970	98.5	2000	2010	100.5	2000	1970	98.5
Magnesium	40000	38100	95.3	40000	37900	94.8	40000	37100	92.8
Manganese	2000	2040	102.0	2000	2030	101.5	2000	2020	101.0
Molybdenum	anr								
Nickel	2000	2040	102.0	2000	2060	103.0	2000	2030	101.5
Potassium	40000	43500	108.8	40000	43500	108.8	40000	43300	108.3
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Silver	250	253	101.2	250	253	101.2	250	253	101.2
Sodium	40000	43600	109.0	40000	43600	109.0	40000	43700	109.3
Strontium									
Thallium	2000	2010	100.5	2000	2060	103.0	2000	2010	100.5
Tin	anr								
Titanium									
Vanadium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Zinc	2000	2000	100.0	2000	1980	99.0	2000	1980	99.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9264 Units: ug/l

Time:		16:40			17:30			17:51	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	41100	102.8	40000	41200	103.0
Antimony	2000	2030	101.5	2000	2030	101.5	2000	2020	101.0
Arsenic	2000	2080	104.0	2000	2150	107.5	2000	2180	109.0
Barium	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5
Beryllium	2000	1950	97.5	2000	1960	98.0	2000	1930	96.5
Cadmium	2000	2010	100.5	2000	2010	100.5	2000	2000	100.0
Calcium	40000	38700	96.8	40000	39700	99.3	40000	39400	98.5
Chromium	2000	1960	98.0	2000	1960	98.0	2000	1940	97.0
Cobalt	2000	2030	101.5	2000	2030	101.5	2000	2020	101.0
Copper	2000	2020	101.0	2000	1980	99.0	2000	1970	98.5
Iron	40000	38600	96.5	40000	39600	99.0	40000	38900	97.3
Lead	2000	1920	96.0	2000	1910	95.5	2000	1890	94.5
Magnesium	40000	36600	91.5	40000	37500	93.8	40000	37200	93.0
Manganese	2000	2040	102.0	2000	2070	103.5	2000	2100	105.0
Molybdenum	anr								
Nickel	2000	2060	103.0	2000	2100	105.0	2000	2100	105.0
Potassium	40000	44300	110.8*(a	40000	45600	114.0*(a	40000	46800	117.0*(a
Selenium	2000	2080	104.0	2000	2110	105.5	2000	2120	106.0
Silver	250	251	100.4	250	253	101.2	250	250	100.0
Sodium	40000	44400	111.0*(b	40000	45000	112.5*(b	40000	45500	113.8*(b
Strontium									
Thallium	2000	1970	98.5	2000	1970	98.5	2000	1950	97.5
Tin	anr								
Titanium									
Vanadium	2000	2020	101.0	2000	2080	104.0	2000	2090	104.5
Zinc	2000	2010	100.5	2000	2060	103.0	2000	2080	104.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na eported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9264 Units: ug/l

Time:		06:51	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	80000	79800	99.8
Antimony	4000	4010	100.3
Arsenic	4000	3970	99.3
Barium	4000	4030	100.8
Beryllium	4000	3980	99.5
Cadmium	4000	3960	99.0
Calcium	80000	80000	100.0
Chromium	4000	3980	99.5
Cobalt	4000	3960	99.0
Copper	4000	3990	99.8
Iron	80000	80000	100.0
Lead	4000	4040	101.0
Magnesium	80000	79600	99.5
Manganese	4000	3950	98.8
Molybdenum	anr		
Nickel	4000	3960	99.0
Potassium	80000	80700	100.9
Selenium	4000	3970	99.3
Silver	500	499	99.8
Sodium	80000	80600	100.8
Strontium			
Thallium	4000	4020	100.5
Tin	anr		
Titanium			
Vanadium	4000	3990	99.8
Zinc	4000	3950	98.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9264 Units: ug/l

Time:			07:06		07:30		17:38	
Sample ID:	CRI	CRIA	CRIA1		CRIA2		CRIA3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	400	200	181	90.5			203	101.5
Antimony	10	5.0			5.1	102.0	3.6	72.0
Arsenic	20	10	10.4	104.0			10.7	107.0
Barium	400	200	194	97.0			199	99.5
Beryllium	10	5.0	4.8	96.0			4.5	90.0
Cadmium	10	5.0	5.1	102.0			4.9	98.0
Calcium	2000	1000	998	99.8			968	96.8
Chromium	20	10	10.2	102.0			9.6	96.0
Cobalt	100	50	52.5	105.0			52.2	104.4
Copper	50	25	26.3	105.2			25.9	103.6
Iron	600	300	300	100.0			288	96.0
Lead	10	5.0	5.4	108.0			4.2	84.0
Magnesium	10000	5000	4820	96.4			4480	89.6
Manganese	30	15	15.9	106.0			16.1	107.3
Molybdenum	100	50	anr					
Nickel	80	40	41.9	104.8			43.7	109.3
Potassium	20000	10000	9330	93.3			10300	103.0
Selenium	20	10	9.6	96.0			11.0	110.0
Silver	20	10	9.0	90.0			9.1	91.0
Sodium	20000	10000	9570	95.7			10400	104.0
Strontium	20	10						
Thallium	20	10	9.4	94.0			10.1	101.0
Tin	100	50	anr					
Titanium	20	10						
Vanadium	100	50	50.8	101.6			52.7	105.4
Zinc	40	20	20.5	102.5			21.2	106.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SB100711M1.ICP Date Analyzed: 10/07/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9264 Units: ug/l

Time:			07:37		07:44		17:43		17:47	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	493000	98.6	505000	101.0	509000	101.8	513000	102.6
Antimony		1000	1.7		1000	100.0	1.2		1010	101.0
Arsenic		1000	0.0		993	99.3	-2.4		1080	108.0
Barium		500	-0.30		545	109.0	0.30		565	113.0
Beryllium		500	0.0		500	100.0	-0.10		484	96.8
Cadmium		1000	-0.10		923	92.3	4.1		894	89.4
Calcium	500000	500000	488000	97.6	490000	98.0	489000	97.8	481000	96.2
Chromium		500	0.10		504	100.8	-0.70		478	95.6
Cobalt		500	0.30		466	93.2	-0.10		453	90.6
Copper		500	-0.10		541	108.2	2.1		528	105.6
Iron	200000	200000	196000	98.0	200000	100.0	194000	97.0	193000	96.5
Lead		1000	0.0		1030	103.0	0.50		973	97.3
Magnesium	500000	500000	491000	98.2	501000	100.2	481000	96.2	477000	95.4
Manganese		500	-0.90		514	102.8	-0.30		506	101.2
Molybdenum		1000	0.0		964	96.4	-0.70		932	93.2
Nickel		1000	0.0		913	91.3	-2.5		921	92.1
Potassium			155		158		123		51.5	
Selenium		1000	0.0		981	98.1	2.4		1030	103.0
Silver		1000	0.10		1050	105.0	0.30		1040	104.0
Sodium			101		90.5		226		237	
Strontium		1000	-2.0		-2.0	0.0*	-1.6		-1.5	0.0*
Thallium		1000	-1.7		1040	104.0	-0.80		1000	100.0
Tin		1000	0.70		861	86.1	0.50		835	83.5
Titanium		1000	-2.6		-2.1	0.0*	-4.3		-0.80	0.0*
Vanadium		500	0.50		506	101.2	-0.60		517	103.4
Zinc		1000	-0.80		881	88.1	-0.60		895	89.5

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:21	MA9267-STD1	1		STDA
10:24	MA9267-STD2	1		STDB
10:28	MA9267-STD3	1		STDC
10:32	MA9267-HSTD1	1		
10:37	MA9267-ICV1	1		
10:47	MA9267-ICB1	1		
10:52	MA9267-CRIA1	1		
11:04	MA9267-ICSA1	1		
11:13	MA9267-ICSAB1	1		
11:19	MA9267-CCV1	1		
11:25	MA9267-CCB1	1		
11:29	ZZZZZZ	5		
11:34	ZZZZZZ	5		
11:38	F86367-1	5		(sample used for QC only; not part of login F86441)
11:42	MP21450-D1	5		
11:47	MP21450-S1	5		
11:51	MP21450-S2	5		
11:55	MP21450-PS1	5		
11:59	MP21450-SD1	25		
12:04	ZZZZZZ	5		
12:08	ZZZZZZ	5		
12:12	MA9267-CCV2	1		
12:16	MA9267-CCB2	1		
12:21	ZZZZZZ	5		
12:25	ZZZZZZ	10		
12:29	ZZZZZZ	10		
12:34	ZZZZZZ	5		
12:38	ZZZZZZ	5		
12:42	ZZZZZZ	5		
12:47	MP21450-MB1	1		
12:51	MP21450-B1	1		
12:55	MP21456-MB2A	1		
13:04	MA9267-CCV3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:08	MA9267-CCB3	1		
	13:17	F86441-1	50		
	13:22	F86441-1F	50		
	13:26	F86441-1	1		
	13:31	F86441-1F	1		
---------->		Last reportable sample/prep for job F86441			
	13:35	F86630-1	4		(sample used for QC only; not part of login F86441)
	13:40	MP21449-D1	4		
	13:44	MP21449-S1	4		
	13:48	MP21449-S2	4		
	13:53	MP21449-PS1	4		
	13:57	MA9267-CCV4	1		
	14:02	MA9267-CCB4	1		
	14:18	MA9267-CCV5	1		
	14:23	MA9267-CCB5	1		
	14:27	MP21449-SD1	20		
	14:31	ZZZZZZ	2		
	14:36	ZZZZZZ	4		
	14:40	ZZZZZZ	5		
	14:44	ZZZZZZ	10		
	14:49	ZZZZZZ	4		
	14:53	ZZZZZZ	5		
	14:58	ZZZZZZ	2		
	15:02	ZZZZZZ	4		
	15:07	ZZZZZZ	4		
	15:11	MA9267-CCV6	1		
	15:16	MA9267-CCB6	1		
	15:20	ZZZZZZ	4		
	15:33	ZZZZZZ	10		
	15:38	ZZZZZZ	10		
	15:42	ZZZZZZ	2		
	15:47	ZZZZZZ	2		
	15:51	ZZZZZZ	10		
	15:56	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:00	ZZZZZZ	2		
16:05	MA9267-CCV7	1		
16:09	MA9267-CCB7	1		
16:26	MA9267-CCV8	1		
16:31	MA9267-CCB8	1		
16:34	ZZZZZZ	2		
16:39	ZZZZZZ	2		
16:44	ZZZZZZ	5		
16:48	ZZZZZZ	2		
16:53	ZZZZZZ	2		
16:57	ZZZZZZ	2		
17:02	ZZZZZZ	2		
17:06	ZZZZZZ	10		
17:11	ZZZZZZ	2		
17:15	MP21466-MB1	1		
17:20	MA9267-CCV9	1		
17:24	MA9267-CCB9	1		
17:28	MP21466-B1	1		
17:33	F86379-8	1		(sample used for QC only; not part of login F86441)
17:37	MP21466-D1	1		
17:42	MP21466-SD1	5		
17:46	MP21466-PS1	1		
17:50	MP21466-S1	1		
17:55	MP21466-S2	1		
17:59	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:13	MA9267-CCV10	1		
18:17	MA9267-CCB10	1		
18:21	ZZZZZZ	1		
18:26	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:40	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:49	ZZZZZZ	1		
18:53	ZZZZZZ	1		
18:58	ZZZZZZ	1		
19:03	ZZZZZZ	1		
19:07	MA9267-CCV11	1		
19:11	MA9267-CCB11	1		
19:16	ZZZZZZ	1		
19:21	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:30	ZZZZZZ	1		
19:34	MP21466-MB2A	1		
19:39	MP21467-MB1	1		
19:43	MP21467-B1	1		
19:48	F86402-1	1		(sample used for QC only; not part of login F86441)
19:52	MP21467-D1	1		
19:57	MP21467-SD1	5		
20:01	MA9267-CCV12	1		
20:05	MA9267-CCB12	1		
20:10	MP21467-PS1	1		
20:14	MP21467-S1	1		
20:18	MP21467-S2	1		
20:23	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:41	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:50	ZZZZZZ	1		
20:55	MA9267-CCV13	1		
20:59	MA9267-CCB13	1		
21:03	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:08	ZZZZZZ	1		
21:12	ZZZZZZ	1		
21:17	ZZZZZZ	1		
21:21	ZZZZZZ	1		
21:26	ZZZZZZ	1		
21:30	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:39	ZZZZZZ	1		
21:44	ZZZZZZ	1		
21:48	MA9267-CCV14	1		
21:52	MA9267-CCB14	1		
21:57	MP21467-MB2A	1		
22:01	MP21461-MB1	1		
22:06	MP21461-B1	1		
22:10	F86582-1	1		(sample used for QC only; not part of login F86441)
22:14	MP21461-D1	1		
22:19	MP21461-SD1	5		
22:23	MP21461-S1	1		
22:28	MP21461-S2	1		
22:32	MP21461-MB2	1		
22:36	MP21461-B2	1		
22:41	MA9267-CCV15	1		
22:45	MA9267-CCB15	1		
22:50	MP21460-MB1	1		
22:54	MP21460-B1	1		
22:58	F86642-1A	1		(sample used for QC only; not part of login F86441)
23:03	MP21460-D1	1		
23:07	MP21460-SD1	5		
23:12	MP21460-S1	1		
23:16	MP21460-S2	1		
23:21	ZZZZZZ	1		
23:25	ZZZZZZ	1		
23:30	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:34	MA9267-CCV16	1		
23:39	MA9267-CCB16	1		
23:43	ZZZZZZ	1		
23:48	F86641-1A	1		(sample used for QC only; not part of login F86441)
23:52	ZZZZZZ	1		
23:57	F86616-1A	1		(sample used for QC only; not part of login F86441)
00:02	MP21460-D2	1		
00:06	MP21460-D3	1		
00:11	MP21460-MB2	1		
00:15	MP21460-B2	1		
00:20	MP21460-MB3	1		
00:24	MP21460-B3	1		
00:29	MA9267-CCV17	1		
00:33	MA9267-CCB17	1		
00:38	MP21468-MB1	1		
00:42	MP21468-B1	1		
00:46	F86402-1F	1		(sample used for QC only; not part of login F86441)
00:51	MP21468-D1	1		
00:55	MP21468-SD1	5		
01:00	MP21468-PS1	1		
01:04	MP21468-S1	1		
01:08	MP21468-S2	1		
01:12	ZZZZZZ	1		
01:17	ZZZZZZ	1		
01:22	MA9267-CCV18	1		
01:26	MA9267-CCB18	1		
01:30	ZZZZZZ	1		
01:35	ZZZZZZ	1		
01:39	ZZZZZZ	1		
01:44	ZZZZZZ	1		
01:48	ZZZZZZ	1		
01:53	ZZZZZZ	1		
01:57	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:01	ZZZZZZ	1		
02:06	ZZZZZZ	1		
02:11	ZZZZZZ	1		
02:15	MA9267-CCV19	1		
02:20	MA9267-CCB19	1		
02:24	ZZZZZZ	1		
02:29	ZZZZZZ	1		
02:33	ZZZZZZ	1		
02:47	MP21468-MB2A	1		
02:51	MP21469-MB1	1		
02:56	MP21469-B1	1		
03:00	F86425-1	1		(sample used for QC only; not part of login F86441)
03:05	MP21469-D1	1		
03:09	MA9267-CCV20	1		
03:13	MA9267-CCB20	1		
03:18	MP21469-SD1	5		
03:22	MP21469-PS1	1		
03:27	MP21469-S1	1		
03:31	MP21469-S2	1		
03:35	ZZZZZZ	1		
03:40	ZZZZZZ	1		
03:44	ZZZZZZ	1		
03:49	ZZZZZZ	1		
03:53	ZZZZZZ	1		
03:58	ZZZZZZ	1		
04:02	MA9267-CCV21	1		
04:07	MA9267-CCB21	1		
04:11	ZZZZZZ	1		
04:16	ZZZZZZ	1		
04:20	ZZZZZZ	1		
04:25	ZZZZZZ	1		
04:29	ZZZZZZ	1		
04:34	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:38	ZZZZZZ	1		
04:43	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:52	ZZZZZZ	1		
04:56	MA9267-CCV22	1		
05:01	MA9267-CCB22	1		
05:05	ZZZZZZ	1		
05:10	MP21469-MB2A	1		
05:14	ZZZZZZ	1		
05:19	ZZZZZZ	1		
05:23	ZZZZZZ	1		
05:28	ZZZZZZ	1		
05:32	MP21459-MB1	1		
05:37	MP21459-B1	1		
05:41	F86719-1	1		(sample used for QC only; not part of login F86441)
05:45	MP21459-D1	1		
05:50	MA9267-CCV23	1		
05:54	MA9267-CCB23	1		
05:59	MP21459-SD1	5		
06:03	MP21459-PS1	1		
06:08	MP21459-S1	1		
06:12	MP21459-S2	1		
06:16	ZZZZZZ	1		
06:21	ZZZZZZ	1		
06:25	ZZZZZZ	1		
06:29	ZZZZZZ	1		
06:34	ZZZZZZ	1		
06:38	ZZZZZZ	1		
06:43	MA9267-CCV24	1		
06:47	MA9267-CCB24	1		
06:52	ZZZZZZ	1		
06:56	ZZZZZZ	1		
07:01	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:05	ZZZZZZ	1		
07:10	ZZZZZZ	1		
07:14	ZZZZZZ	1		
07:18	ZZZZZZ	1		
07:23	ZZZZZZ	1		
07:27	ZZZZZZ	1		
07:32	MA9267-CRIA2	1		
07:36	MA9267-CCV25	1		
07:41	MA9267-CCB25	1		
07:45	MA9267-ICSA2	1		
07:50	MA9267-ICSAB2	1		
08:12	MA9267-CCV26	1		
08:17	MA9267-CCB26	1		

----------> Last reportable CCB for job F86441
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:21	MA9267-STD1	1634	17368	8518	856
10:24	MA9267-STD2	1534	16506	8453	717
10:28	MA9267-STD3	1464	15984	8414	656
10:32	MA9267-HSTD1	1466	15947	8440	656
10:37	MA9267-ICV1	1482	15949	8271	689
10:47	MA9267-ICB1	1637 R	17547 R	8594 R	864 R
10:52	MA9267-CRIA1	1547	16536	8289	788
11:04	MA9267-ICSA1	1375	14456	7971	601
11:13	MA9267-ICSAB1	1359	14363	7836	593
11:19	MA9267-CCV1	1507	16241	8346	703
11:25	MA9267-CCB1	1625	17333	8482	853
11:29	ZZZZZZ	1735	18652	9176	824
11:34	ZZZZZZ	1754	18800	9344	788
11:38	F86367-1	1827	19679	9973	732
11:42	MP21450-D1	1857	20059	10302	727
11:47	MP21450-S1	1783	19122	9859	734
11:51	MP21450-S2	1843	19699	10256	716
11:55	MP21450-PS1	1831	19827	10164	723
11:59	MP21450-SD1	1656	17985	8952	805
12:04	ZZZZZZ	1821	19749	10377	714
12:08	ZZZZZZ	1735	18791	9769	744
12:12	MA9267-CCV2	1500	16342	8507	702
12:16	MA9267-CCB2	1615	17380	8609	855
12:21	ZZZZZZ	1708	18442	9630	730
12:25	ZZZZZZ	1862	20374	10528	704
12:29	ZZZZZZ	1877	20614	10613	717
12:34	ZZZZZZ	1745	19177	9941	723
12:38	ZZZZZZ	1769	19153	9970	715
12:42	ZZZZZZ	1804	19507	10010	760
12:47	MP21450-MB1	1566	17198	8430	829
12:51	MP21450-B1	1511	16308	8401	731
12:55	MP21456-MB2A	1618	17609	8784	854
13:04	MA9267-CCV3	1484	16227	8450	696

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:08	MA9267-CCB3	1600	17466	8578	848
13:17	F86441-1	1525	16696	8625	779
13:22	F86441-1F	1526	16751	8594	778
13:26	F86441-1	1247	13336	7954	548
13:31	F86441-1F	1228	13458	8064	547
13:35	F86630-1	1439	16456	8844	697
13:40	MP21449-D1	1420	15921	8728	652
13:44	MP21449-S1	1436	16178	8713	668
13:48	MP21449-S2	1426	16107	8719	647
13:53	MP21449-PS1	1452	16377	8774	685
13:57	MA9267-CCV4	1449	16374	8650	690
14:02	MA9267-CCB4	1533	17219	8733	821
14:18	MA9267-CCV5	1436	16140	8631	681
14:23	MA9267-CCB5	1559	17251	8754	833
14:27	MP21449-SD1	1526	17136	8815	775
14:31	ZZZZZZ	1456	16127	8765	663
14:36	ZZZZZZ	1467	16394	8763	692
14:40	ZZZZZZ	1483	16623	8694	734
14:44	ZZZZZZ	1398	15620	8464	664
14:49	ZZZZZZ	1502	16837	9238	635
14:53	ZZZZZZ	1443	15938	8665	662
14:58	ZZZZZZ	1490	16816	9061	653
15:02	ZZZZZZ	1453	16534	8807	683
15:07	ZZZZZZ	1489	16679	8749	741
15:11	MA9267-CCV6	1437	16083	8535	683
15:16	MA9267-CCB6	1557	17259	8741	834
15:20	ZZZZZZ	1440	16298	8633	760
15:33	ZZZZZZ	1387	15623	8500	619
15:38	ZZZZZZ	1745	19233	10022	767
15:42	ZZZZZZ	1763	19340	10224	727
15:47	ZZZZZZ	1807	20025	10509	725
15:51	ZZZZZZ	1745	19277	10126	751
15:56	ZZZZZZ	1689	18539	9782	738

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:00	ZZZZZZ	1592	17875	9647	661
16:05	MA9267-CCV7	1399	15736	8467	665
16:09	MA9267-CCB7	1528	16980	8770	819
16:26	MA9267-CCV8	1406	15752	8486	666
16:31	MA9267-CCB8	1533	17083	8766	820
16:34	ZZZZZZ	1599	17955	9468	712
16:39	ZZZZZZ	1599	18289	9572	715
16:44	ZZZZZZ	1723	19366	10269	725
16:48	ZZZZZZ	1585	17814	9444	698
16:53	ZZZZZZ	1626	18295	9599	715
16:57	ZZZZZZ	1679	18850	10058	688
17:02	ZZZZZZ	1697	19001	10140	704
17:06	ZZZZZZ	1678	18714	9702	766
17:11	ZZZZZZ	1415	16142	8453	716
17:15	MP21466-MB1	1508	17104	8767	812
17:20	MA9267-CCV9	1406	15863	8476	667
17:24	MA9267-CCB9	1525	17204	8703	818
17:28	MP21466-B1	1431	16238	8631	709
17:33	F86379-8	1358	15378	8554	643
17:37	MP21466-D1	1354	15511	8556	645
17:42	MP21466-SD1	1429	16280	8639	730
17:46	MP21466-PS1	1353	15372	8539	635
17:50	MP21466-S1	1356	15583	8499	624
17:55	MP21466-S2	1360	15659	8556	624
17:59	ZZZZZZ	1509	17168	9308	692
18:04	ZZZZZZ	1445	16287	8644	737
18:08	ZZZZZZ	1559	17678	9636	677
18:13	MA9267-CCV10	1369	15691	8316	654
18:17	MA9267-CCB10	1514	16991	8533	810
18:21	ZZZZZZ	1596	18073	9879	666
18:26	ZZZZZZ	1450	16487	8728	714
18:30	ZZZZZZ	1341	14766	8339	635
18:35	ZZZZZZ	1203	12782	7831	529

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:40	ZZZZZZ	1340	15394	8582	664
18:44	ZZZZZZ	1343	15311	8500	662
18:49	ZZZZZZ	1345	15122	8474	656
18:53	ZZZZZZ	1264	14078	8222	587
18:58	ZZZZZZ	1340	15390	8505	659
19:03	ZZZZZZ	1336	14986	8499	650
19:07	MA9267-CCV11	1373	15873	8555	659
19:11	MA9267-CCB11	1482	17298	8723	803
19:16	ZZZZZZ	1344	15084	8504	658
19:21	ZZZZZZ	1252	14388	8227	582
19:25	ZZZZZZ	1322	15304	8493	662
19:30	ZZZZZZ	1322	14925	8529	652
19:34	MP21466-MB2A	1467	17214	8925	803
19:39	MP21467-MB1	1468	17199	8761	800
19:43	MP21467-B1	1402	16192	8655	703
19:48	F86402-1	1349	15399	8412	681
19:52	MP21467-D1	1361	15540	8438	686
19:57	MP21467-SD1	1437	16543	8797	755
20:01	MA9267-CCV12	1378	15856	8505	663
20:05	MA9267-CCB12	1500	17084	8708	808
20:10	MP21467-PS1	1354	15635	8449	672
20:14	MP21467-S1	1310	15184	8285	627
20:18	MP21467-S2	1341	15381	8334	643
20:23	ZZZZZZ	1150	12696	7763	509 !
20:27	ZZZZZZ	1160	12702	7919	519
20:32	ZZZZZZ	1262	14544	8449	570
20:36	ZZZZZZ	1317	15540	8550	646
20:41	ZZZZZZ	1124	12494	7786	501 !
20:45	ZZZZZZ	1136	12620	7865	514 !
20:50	ZZZZZZ	1233	14125	8191	590
20:55	MA9267-CCV13	1313	15592	8331	639
20:59	MA9267-CCB13	1444	16925	8697	789
21:03	ZZZZZZ	1329	15377	8436	665

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:08	ZZZZZZ	1322	15284	8384	637
21:12	ZZZZZZ	1312	15037	8374	631
21:17	ZZZZZZ	1389	16181	8549	726
21:21	ZZZZZZ	1375	16012	8468	714
21:26	ZZZZZZ	1353	15806	8325	699
21:30	ZZZZZZ	1373	16064	8466	714
21:35	ZZZZZZ	1360	15764	8330	710
21:39	ZZZZZZ	1360	15794	8300	702
21:44	ZZZZZZ	1329	15496	8305	671
21:48	MA9267-CCV14	1348	15652	8347	651
21:52	MA9267-CCB14	1476	16976	8586	801
21:57	MP21467-MB2A	1459	17345	8726	797
22:01	MP21461-MB1	1432	16715	8546	781
22:06	MP21461-B1	1385	16154	8479	695
22:10	F86582-1	1439	16729	8565	770
22:14	MP21461-D1	1438	16701	8522	769
22:19	MP21461-SD1	1458	17011	8549	790
22:23	MP21461-S1	1386	16071	8491	694
22:28	MP21461-S2	1389	16080	8432	694
22:32	MP21461-MB2	1354	15452	8370	680
22:36	MP21461-B2	1346	15620	8375	654
22:41	MA9267-CCV15	1357	15938	8361	658
22:45	MA9267-CCB15	1475	16994	8553	803
22:50	MP21460-MB1	1476	17251	8622	807
22:54	MP21460-B1	1390	16312	8445	700
22:58	F86642-1A	1342	15458	8388	675
23:03	MP21460-D1	1327	15490	8423	671
23:07	MP21460-SD1	1404	16383	8563	739
23:12	MP21460-S1	1321	15472	8511	643
23:16	MP21460-S2	1298	15380	8403	635
23:21	ZZZZZZ	1308	15233	8401	666
23:25	ZZZZZZ	1315	15492	8562	669
23:30	ZZZZZZ	1304	15604	8508	666

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:34	MA9267-CCV16	1312	15722	8422	644
23:39	MA9267-CCB16	1435	16926	8622	790
23:43	ZZZZZZ	1311	15382	8262	669
23:48	F86641-1A	1342	15861	8642	671
23:52	ZZZZZZ	1294	15444	8510	668
23:57	F86616-1A	1290	15236	8416	661
00:02	MP21460-D2	1322	15630	8665	663
00:06	MP21460-D3	1292	15385	8404	662
00:11	MP21460-MB2	1281	15395	8479	665
00:15	MP21460-B2	1274	15387	8445	635
00:20	MP21460-MB3	1284	15292	8510	665
00:24	MP21460-B3	1273	15429	8386	633
00:29	MA9267-CCV17	1307	16020	8363	644
00:33	MA9267-CCB17	1420	17062	8672	789
00:38	MP21468-MB1	1416	17044	8670	787
00:42	MP21468-B1	1341	16121	8469	686
00:46	F86402-1F	1305	15558	8252	671
00:51	MP21468-D1	1307	15630	8324	674
00:55	MP21468-SD1	1403	16491	8503	748
01:00	MP21468-PS1	1319	15647	8301	668
01:04	MP21468-S1	1310	15664	8260	644
01:08	MP21468-S2	1314	15758	8243	643
01:12	ZZZZZZ	1285	15113	8244	637
01:17	ZZZZZZ	1298	15162	8286	640
01:22	MA9267-CCV18	1343	16041	8324	657
01:26	MA9267-CCB18	1430	17027	8411	787
01:30	ZZZZZZ	1353	16320	8224	718
01:35	ZZZZZZ	1351	16020	8347	707
01:39	ZZZZZZ	1348	16004	8265	706
01:44	ZZZZZZ	1378	16456	8405	730
01:48	ZZZZZZ	1375	16551	8430	731
01:53	ZZZZZZ	1350	16192	8397	713
01:57	ZZZZZZ	1313	15499	8235	676

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:01	ZZZZZZ	1172	13430	7857	535
02:06	ZZZZZZ	1306	15597	8281	664
02:11	ZZZZZZ	1132	13400	7885	536
02:15	MA9267-CCV19	1269	15876	8374	635
02:20	MA9267-CCB19	1390	16933	8609	776
02:24	ZZZZZZ	1275	15344	8327	655
02:29	ZZZZZZ	1290	15826	8396	670
02:33	ZZZZZZ	1182	14112	8039	559
02:47	MP21468-MB2A	1357	16960	8676	773
02:51	MP21469-MB1	1378	17112	8694	777
02:56	MP21469-B1	1304	16136	8419	677
03:00	F86425-1	1338	16790	8612	748
03:05	MP21469-D1	1331	16618	8593	741
03:09	MA9267-CCV20	1287	15983	8396	644
03:13	MA9267-CCB20	1394	17161	8572	782
03:18	MP21469-SD1	1380	17141	8621	775
03:22	MP21469-PS1	1320	16440	8526	712
03:27	MP21469-S1	1297	16017	8435	672
03:31	MP21469-S2	1313	16228	8416	675
03:35	ZZZZZZ	1360	16938	8587	761
03:40	ZZZZZZ	1349	16712	8578	748
03:44	ZZZZZZ	1270	15472	8310	671
03:49	ZZZZZZ	1178	13759	7921	567
03:53	ZZZZZZ	1303	15985	8429	692
03:58	ZZZZZZ	1309	16347	8495	715
04:02	MA9267-CCV21	1283	15981	8370	642
04:07	MA9267-CCB21	1380	16892	8586	773
04:11	ZZZZZZ	1349	16846	8621	742
04:16	ZZZZZZ	1276	15805	8346	674
04:20	ZZZZZZ	1374	17143	8618	777
04:25	ZZZZZZ	1366	17169	8644	777
04:29	ZZZZZZ	1376	17032	8622	775
04:34	ZZZZZZ	1381	17087	8636	778

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:38	ZZZZZZ	1379	17089	8607	779
04:43	ZZZZZZ	1375	17198	8615	778
04:47	ZZZZZZ	1272	15594	8283	674
04:52	ZZZZZZ	1283	15642	8283	677
04:56	MA9267-CCV22	1302	15943	8322	644
05:01	MA9267-CCB22	1394	17177	8526	782
05:05	ZZZZZZ	1273	15592	8254	671
05:10	MP21469-MB2A	1388	16999	8589	778
05:14	ZZZZZZ	1357	16646	8507	749
05:19	ZZZZZZ	1366	16759	8502	752
05:23	ZZZZZZ	1355	16715	8500	747
05:28	ZZZZZZ	1346	16404	8477	736
05:32	MP21459-MB1	1376	16584	8405	786
05:37	MP21459-B1	1306	15743	8222	668
05:41	F86719-1	1338	16275	8420	711
05:45	MP21459-D1	1326	16074	8406	705
05:50	MA9267-CCV23	1287	15556	8170	636
05:54	MA9267-CCB23	1404	16937	8448	780
05:59	MP21459-SD1	1387	16813	8490	760
06:03	MP21459-PS1	1331	15940	8397	689
06:08	MP21459-S1	1299	15721	8250	645
06:12	MP21459-S2	1299	15719	8230	646
06:16	ZZZZZZ	1287	15606	8232	676
06:21	ZZZZZZ	1312	15809	8259	699
06:25	ZZZZZZ	1330	16101	8412	707
06:29	ZZZZZZ	1327	15915	8254	713
06:34	ZZZZZZ	1304	15924	8331	710
06:38	ZZZZZZ	1321	15759	8178	715
06:43	MA9267-CCV24	1288	15558	8137	634
06:47	MA9267-CCB24	1403	16807	8393	779
06:52	ZZZZZZ	1285	15614	8235	655
06:56	ZZZZZZ	1318	15648	8304	697
07:01	ZZZZZZ	1375	16422	8342	747

INTERNAL STANDARD SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
Analyst: RS Run ID: MA9267
Parameters: K,Na

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:05	ZZZZZZ	1374	16569	8575	697
07:10	ZZZZZZ	1301	15701	8189	690
07:14	ZZZZZZ	1420	16842	8705	714
07:18	ZZZZZZ	1423	16997	8758	693
07:23	ZZZZZZ	1427	17008	8813	689
07:27	ZZZZZZ	1366	16468	8615	657
07:32	MA9267-CRIA2	1368	16088	8304	732
07:36	MA9267-CCV25	1309	15564	8443	640
07:41	MA9267-CCB25	1426	16726	8365	784
07:45	MA9267-ICSA2	1192	14044	7654	550
07:50	MA9267-ICSAB2	1181	14015	7687	543
08:12	MA9267-CCV26	1316	15722	8150	645
08:17	MA9267-CCB26	1451	16513	8411	793

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time: / Sample ID:			10:47 ICB1		11:25 CCB1		12:16 CCB2		13:08 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	-14	<10000	-10	<10000	-5.8	<10000	7.7	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	-5.0	<10000	3.1	<10000	-5.0	<10000	-1.5	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time: / Sample ID:			14:02 CCB4		14:23 CCB5		15:16 CCB6		16:09 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	13.4	<10000	1.7	<10000	-1.4	<10000	7.8	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	30.6	<10000	3.2	<10000	1.6	<10000	0.0	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time: / Sample ID:			16:31 CCB8		17:24 CCB9		18:17 CCB10		19:11 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	39.7	<10000	15.6	<10000	25.4	<10000	29.2	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	9.7	<10000	4.1	<10000	24.8	<10000	55.6	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time: / Sample ID:			20:05 CCB12		20:59 CCB13		21:52 CCB14		22:45 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	24.5	<10000	40.1	<10000	3.2	<10000	23.0	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	39.0	<10000	127	<10000	30.0	<10000	30.7	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time:			23:39		00:33		01:26		02:20	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	23.3	<10000	26.4	<10000	42.5	<10000	15.5	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	45.8	<10000	56.3	<10000	58.0	<10000	74.3	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time: / Sample ID:			03:13 CCB20		04:07 CCB21		05:01 CCB22		05:54 CCB23	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	20	anr							
Antimony	6.0	1	anr							
Arsenic	10	1	anr							
Barium	200	1	anr							
Beryllium	4.0	.1	anr							
Cadmium	5.0	.1	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	1	anr							
Copper	25	1	anr							
Iron	300	34	anr							
Lead	5.0	1	anr							
Magnesium	5000	50	anr							
Manganese	15	1	anr							
Molybdenum	50	1	anr							
Nickel	40	1	anr							
Potassium	10000	50	29.9	<10000	24.7	<10000	22.3	<10000	24.5	<10000
Selenium	10	2	anr							
Silver	10	1	anr							
Sodium	10000	750	44.0	<10000	48.8	<10000	41.9	<10000	45.3	<10000
Strontium	10	1								
Thallium	10	1	anr							
Tin	50	1	anr							
Titanium	10	1.1								
Vanadium	50	1	anr							
Zinc	20	1	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA9267 Units: ug/l

Time:			06:47		07:41		08:17	
Sample ID:			CCB24		CCB25		CCB26	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	20	anr					
Antimony	6.0	1	anr					
Arsenic	10	1	anr					
Barium	200	1	anr					
Beryllium	4.0	.1	anr					
Cadmium	5.0	.1	anr					
Calcium	1000	50	anr					
Chromium	10	1	anr					
Cobalt	50	1	anr					
Copper	25	1	anr					
Iron	300	34	anr					
Lead	5.0	1	anr					
Magnesium	5000	50	anr					
Manganese	15	1	anr					
Molybdenum	50	1	anr					
Nickel	40	1	anr					
Potassium	10000	50	-1.7	<10000	15.8	<10000	18.8	<10000
Selenium	10	2	anr					
Silver	10	1	anr					
Sodium	10000	750	6.3	<10000	5.5	<10000	15.0	<10000
Strontium	10	1						
Thallium	10	1	anr					
Tin	50	1	anr					
Titanium	10	1.1						
Vanadium	50	1	anr					
Zinc	20	1	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		10:37			11:19			12:12	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	41500	103.8	40000	41500	103.8	40000	42100	105.3
Selenium	anr								
Silver	anr								
Sodium	40000	42100	105.3	40000	41700	104.3	40000	42500	106.3
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		13:04			13:57			14:18	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	42500	106.3	40000	43100	107.8	40000	41800	104.5
Selenium	anr								
Silver	anr								
Sodium	40000	43100	107.8	40000	43800	109.5	40000	42100	105.3
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		15:11			16:05			16:26	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	41700	104.3	40000	42700	106.8	40000	41000	102.5
Selenium	anr								
Silver	anr								
Sodium	40000	42000	105.0	40000	43100	107.8	40000	41200	103.0
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		17:20			18:13			19:07	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	41700	104.3	40000	42500	106.3	40000	42500	106.3
Selenium	anr								
Silver	anr								
Sodium	40000	42000	105.0	40000	42900	107.3	40000	43000	107.5
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		20:01			20:55			21:48	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	42500	106.3	40000	44900	112.3*(a	40000	44200	110.5*(a
Selenium	anr								
Silver	anr								
Sodium	40000	42900	107.3	40000	45600	114.0*(b	40000	44700	111.8*(b
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		22:41			23:34			00:29	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	43600	109.0	40000	45100	112.8*(b	40000	44900	112.3*(b
Selenium	anr								
Silver	anr								
Sodium	40000	44100	110.3*(a	40000	45900	114.8*(a	40000	45700	114.3*(a
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Na reported in the area bracketed by this QC.
(b) No samples for K reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		01:22			02:15			03:09	
Sample ID:	CCV	CCV18		CCV	CCV19		CCV	CCV20	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	44300	110.8*(a	40000	45700	114.3*(a	40000	45600	114.0*(a
Selenium	anr								
Silver	anr								
Sodium	40000	44900	112.3*(b	40000	46700	116.8*(b	40000	46600	116.5*(b
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		04:02			04:56			05:50	
Sample ID:	CCV	CCV21		CCV	CCV22		CCV	CCV23	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	45700	114.3*(a	40000	45400	113.5*(a	40000	46000	115.0*(a
Selenium	anr								
Silver	anr								
Sodium	40000	46800	117.0*(b	40000	46400	116.0*(b	40000	46900	117.3*(b
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA9267 Units: ug/l

Time:		06:43			07:36			08:12	
Sample ID:	CCV	CCV24		CCV	CCV25		CCV	CCV26	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	40000	45500	113.8*(a	40000	43400	108.5	40000	44700	111.8*(a
Selenium	anr								
Silver	anr								
Sodium	40000	46300	115.8*(b	40000	44000	110.0	40000	45400	113.5*(b
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for K reported in the area bracketed by this QC.
(b) No samples for Na reported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA9267 Units: ug/l

Time:		10:32	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	80000	79600	99.5
Selenium	anr		
Silver	anr		
Sodium	80000	79600	99.5
Strontium			
Thallium	anr		
Tin	anr		
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA9267 Units: ug/l

Time:			10:52		07:32	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	anr			
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	10400	104.0	11200	112.0
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	10400	104.0	11300	113.0
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: SA101011M1.ICP Date Analyzed: 10/10/11 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA9267 Units: ug/l

Time:			11:04		11:13		07:45		07:50	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	475000	95.0	480000	96.0	498000	99.6	497000	99.4
Antimony		1000	0.30		1000	100.0	-2.1		1060	106.0
Arsenic		1000	0.30		1010	101.0	-1.0		1060	106.0
Barium		500	0.40		525	105.0	0.20		550	110.0
Beryllium		500	-0.10		489	97.8	-0.50		467	93.4
Cadmium		1000	-0.10		919	91.9	6.2		933	93.3
Calcium	500000	500000	460000	92.0	468000	93.6	432000	86.4	429000	85.8
Chromium		500	0.30		486	97.2	-2.1		487	97.4
Cobalt		500	-0.30		463	92.6	-0.50		466	93.2
Copper		500	1.0		546	109.2	0.70		562	112.4
Iron	200000	200000	185000	92.5	189000	94.5	166000	83.0	166000	83.0
Lead		1000	0.0		943	94.3	6.1		911	91.1
Magnesium	500000	500000	499000	99.8	514000	102.8	454000	90.8	456000	91.2
Manganese		500	-0.70		494	98.8	-1.4		471	94.2
Molybdenum		1000	-0.10		963	96.3	-0.30		993	99.3
Nickel		1000	0.20		909	90.9	-1.0		918	91.8
Potassium			-20		-16		-1.1		-9.8	
Selenium		1000	0.0		971	97.1	-8.8		1020	102.0
Silver		1000	0.10		1120	112.0	-0.90		1100	110.0
Sodium			58.2		63.3		89.2		94.2	
Strontium		1000	-3.2		-3.2	0.0*	-3.3		-3.3	0.0*
Thallium		1000	0.0		932	93.2	-3.2		910	91.0
Tin		1000	1.7		875	87.5	1.7		875	87.5
Titanium		1000	-3.3		-2.1	0.0*	-2.7		-1.5	0.0*
Vanadium		500	0.0		503	100.6	-0.30		481	96.2
Zinc		1000	1.6		895	89.5	1.7		871	87.1

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
Analyst: LM Run ID: MA9273
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:05	MA9273-STD1	1		STD01REP1
11:07	MA9273-STD2	1		STD02REP1
11:09	MA9273-STD3	1		STD03REP1
11:11	MA9273-STD4	1		STD04REP1
11:13	MA9273-STD5	1		STD05REP1
11:16	MA9273-STD6	1		STD06REP1
11:23	MA9273-HSTD1	1		
11:25	MA9273-ICV1	1		
11:27	MA9273-ICB1	1		
11:29	MA9273-CRI1	1		
11:37	MA9273-CCV1	1		
11:41	MA9273-CCB1	1		
13:31	MA9273-STD7	1		STD01REP1
13:33	MA9273-STD8	1		STD02REP1
13:36	MA9273-STD9	1		STD03REP1
13:38	MA9273-STD10	1		STD04REP1
13:40	MA9273-STD11	1		STD05REP1
13:42	MA9273-STD12	1		STD06REP1
13:44	MA9273-CCV2	1		
13:47	MA9273-CCB2	1		
13:49	MP21488-MB1	1		
13:52	MP21488-B1	1		
13:54	F86645-15	1		(sample used for QC only; not part of login F86441)
13:57	MP21488-D1	1		
13:59	MP21488-SD1	5		
14:02	MP21488-S1	1		
14:05	MP21488-S2	1		
14:07	F86645-22	1		(sample used for QC only; not part of login F86441)
14:10	MP21488-D2	1		
14:13	MP21488-SD2	5		
14:15	MA9273-CCV3	1		
14:17	MA9273-CCB3	1		
14:21	MP21488-S3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
Analyst: LM Run ID: MA9273
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:23	MP21488-S4	1		
14:25	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:37	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:45	MA9273-CCV4	1		
14:47	MA9273-CCB4	1		
14:49	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:56	ZZZZZZ	1		
14:58	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:03	ZZZZZZ	1		
15:05	F86441-1	1		
15:07	F86441-1F	1		
---------->	Last reportable sample/prep for job F86441			
15:12	MA9273-CRI2	1		
15:14	MA9273-CCV5	1		
15:18	MA9273-CCB5	1		
---------->	Last reportable CCB for job F86441			
	Refer to raw data for calibration curve and standards.			

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA9273 Units: ug/l

Time: / Sample ID:			11:27 ICB1		11:41 CCB1		13:47 CCB2		14:17 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	1.0	.071	-0.0060	<1.0	0.13	<1.0	0.0090	<1.0	0.028	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

7.3.1
7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA9273 Units: ug/l

Time:			14:47		15:18	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Mercury	1.0	.071	0.034	<1.0	0.041	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA9273 Units: ug/l

Time:		11:25			11:37			13:44	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.2	106.7	3	2.8	93.3	3	3.1	103.3

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA9273 Units: ug/l

Time:		14:15			14:45			15:14	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.1	103.3	3	3.2	106.7	3	3.1	103.3

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: 95 to 105 % Recovery Run ID: MA9273 Units: ug/l

Time:		11:23	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.8	96.7

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: H21012W2.PRN Date Analyzed: 10/12/11 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA9273 Units: ug/l

Time:			11:29		15:12	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.16	80.0	0.15	75.0*(a)

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/07/11		10/07/11	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	20	25	15.5	<200	29.2	<200
Antimony	6.0	1	2	0.40	<6.0	-1.2	<6.0
Arsenic	10	1	2	-0.40	<10	0.10	<10
Barium	200	1	5	0.20	<200	0.50	<200
Beryllium	4.0	.1	1	-0.10	<4.0	-0.20	<4.0
Cadmium	5.0	.1	1	-0.20	<5.0	-0.20	<5.0
Calcium	1000	50	100	-2.2	<1000	-2.8	<1000
Chromium	10	1	1	-0.20	<10	-0.20	<10
Cobalt	50	1	1	-0.20	<50	-0.20	<50
Copper	25	1	2	0.90	<25	1.2	<25
Iron	300	23	35	2.4	<300	-7.2	<300
Lead	5.0	1	1	-0.10	<5.0	-0.20	<5.0
Magnesium	5000	50	100	-39	<5000	-27	<5000
Manganese	15	1	1	-0.20	<15	-0.10	<15
Molybdenum	50	1	2				
Nickel	40	1	2	-0.50	<40	-0.40	<40
Potassium	10000	50	500	29.5	<10000	-0.10	<10000
Selenium	10	2	2	-0.90	<10	-0.60	<10
Silver	10	1	1	-0.20	<10	-0.10	<10
Sodium	10000	750	1900	4.0	<10000	-0.10	<10000
Strontium	10	1	1				
Thallium	10	1	1.9	-0.30	<10	-0.30	<10
Tin	50	1	1				
Titanium	10	1	2				
Vanadium	50	1	1	-0.30	<50	-0.50	<50
Zinc	20	1	5	0.90	<20	0.40	<20

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/07/11					10/07/11	
Metal	F86391-1 Original	DUP	RPD	QC Limits	F86391-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	71.3	80.7	12.4	0-20	71.3	28300	27000	104.6	80-120
Antimony	0.0	0.0	NC	0-20	0.0	537	500	107.4	80-120
Arsenic	0.0	1.0	200.0(a)	0-20	0.0	2020	2000	101.0	80-120
Barium	45.6	46.8	2.6	0-20	45.6	2250	2000	110.2	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	52.8	50	105.6	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	52.7	50	105.4	80-120
Calcium	26000	26300	1.1	0-20	26000	51800	25000	103.2	80-120
Chromium	0.0	0.0	NC	0-20	0.0	216	200	108.0	80-120
Cobalt	0.0	0.0	NC	0-20	0.0	534	500	106.8	80-120
Copper	0.0	0.0	NC	0-20	0.0	270	250	108.0	80-120
Iron	330	325	1.5	0-20	330	25700	26000	97.6	80-120
Lead	0.0	0.0	NC	0-20	0.0	503	500	100.6	80-120
Magnesium	4740	4790	1.0	0-20	4740	28900	25000	96.6	80-120
Manganese	470	479	1.9	0-20	470	1000	500	106.0	80-120
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	536	500	107.2	80-120
Potassium	1970	1960	0.5	0-20	1970	29700	25000	110.9	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2060	2000	103.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	53.1	50	106.2	80-120
Sodium	1250	1270	1.6	0-20	1250	30100	25000	115.4	80-120
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	2060	2000	103.0	80-120
Tin									
Titanium									
Vanadium	0.0	0.0	NC	0-20	0.0	529	500	105.8	80-120
Zinc	46.0	46.9	1.9	0-20	46.0	546	500	100.0	80-120

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/07/11

Metal	F86391-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	71.3	27200	27000	100.5	4.0	20
Antimony	0.0	519	500	103.8	3.4	20
Arsenic	0.0	1960	2000	98.0	3.0	20
Barium	45.6	2180	2000	106.7	3.2	20
Beryllium	0.0	50.8	50	101.6	3.9	20
Cadmium	0.0	50.7	50	101.4	3.9	20
Calcium	26000	49100	25000	92.4	5.4	20
Chromium	0.0	207	200	103.5	4.3	20
Cobalt	0.0	513	500	102.6	4.0	20
Copper	0.0	260	250	104.0	3.8	20
Iron	330	24500	26000	93.0	4.8	20
Lead	0.0	485	500	97.0	3.6	20
Magnesium	4740	27600	25000	91.4	4.6	20
Manganese	470	960	500	98.0	4.1	20
Molybdenum						
Nickel	0.0	516	500	103.2	3.8	20
Potassium	1970	28600	25000	106.5	3.8	20
Selenium	0.0	2010	2000	100.5	2.5	20
Silver	0.0	50.8	50	101.6	4.4	20
Sodium	1250	28700	25000	109.8	4.8	20
Strontium						
Thallium	0.0	1990	2000	99.5	3.5	20
Tin						
Titanium						
Vanadium	0.0	510	500	102.0	3.7	20
Zinc	46.0	525	500	95.8	3.9	20

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/07/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27400	27000	101.5	80-120
Antimony	524	500	104.8	80-120
Arsenic	1980	2000	99.0	80-120
Barium	2130	2000	106.5	80-120
Beryllium	50.7	50	101.4	80-120
Cadmium	51.7	50	103.4	80-120
Calcium	24400	25000	97.6	80-120
Chromium	209	200	104.5	80-120
Cobalt	523	500	104.6	80-120
Copper	261	250	104.4	80-120
Iron	24600	26000	94.6	80-120
Lead	489	500	97.8	80-120
Magnesium	23300	25000	93.2	80-120
Manganese	520	500	104.0	80-120
Molybdenum				
Nickel	527	500	105.4	80-120
Potassium	26600	25000	106.4	80-120
Selenium	2030	2000	101.5	80-120
Silver	51.5	50	103.0	80-120
Sodium	27500	25000	110.0	80-120
Strontium				
Thallium	2020	2000	101.0	80-120
Tin				
Titanium				
Vanadium	514	500	102.8	80-120
Zinc	494	500	98.8	80-120

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/07/11

Metal	F86391-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	71.3	131	83.7 (a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	45.6	48.6	6.6	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	26000	25600	1.8	0-10
Chromium	0.00	18.3	100.0(a)	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	330	781	136.3(a)	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	4740	4630	2.2	0-10
Manganese	470	474	1.0	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	1970	2150	9.6	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1250	0.00	100.0(a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	0.00	0.00	NC	0-10
Zinc	46.0	46.3	0.7	0-10

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21456
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/07/11

Metal	Sample ml	Final ml	F86391-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	71.3	69.874	2582	0.2	125	2500	100.5	80-120
Antimony	9.8	10	0	0	104.1	0.2	5	100	104.1	80-120
Arsenic	9.8	10	0	0	97.8	0.2	5	100	97.8	80-120
Barium	9.8	10	45.6	44.688	309.3	0.2	12.5	250	105.8	80-120
Beryllium	9.8	10	0	0	49.4	0.2	2.5	50	98.8	80-120
Cadmium	9.8	10	0	0	52.2	0.2	2.5	50	104.4	80-120
Calcium	9.8	10	26020	25499.6	30200	0.2	250	5000	94.0	80-120
Chromium	9.8	10	0	0	52.3	0.2	2.5	50	104.6	80-120
Cobalt	9.8	10	0	0	51.8	0.2	2.5	50	103.6	80-120
Copper	9.8	10	0	0	102.7	0.2	5	100	102.7	80-120
Iron	9.8	10	330.4	323.792	3249	0.2	150	3000	97.5	80-120
Lead	9.8	10	0	0	48	0.2	2.5	50	96.0	80-120
Magnesium	9.8	10	4739	4644.22	9345	0.2	250	5000	94.0	80-120
Manganese	9.8	10	469.6	460.208	499.1	0.2	2.5	50	77.8*(a)	80-120
Molybdenum										
Nickel	9.8	10	0	0	105.8	0.2	5	100	105.8	80-120
Potassium	9.8	10	1966	1926.68	12310	0.2	500	10000	103.8	80-120
Selenium	9.8	10	0	0	100.9	0.2	5	100	100.9	80-120
Silver	9.8	10	0	0	50	0.2	2.5	50	100.0	80-120
Sodium	9.8	10	1251	1225.98	12160	0.2	500	10000	109.3	80-120
Strontium										
Thallium	9.8	10	0	0	99.1	0.2	5	100	99.1	80-120
Tin										
Titanium										
Vanadium	9.8	10	0	0	51.2	0.2	2.5	50	102.4	80-120
Zinc	9.8	10	46	45.08	286	0.2	12.5	250	96.4	80-120

Associated samples MP21456: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21488 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/12/11

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.071	.05	-0.083	<1.0

Associated samples MP21488: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21488
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/12/11 10/12/11

Metal	F86645-15 Original	DUP	RPD	QC Limits	F86645-15 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.11	200.0(a)	0-20	0.0	3.2	3	106.7	80-120

Associated samples MP21488: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21488 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/12/11

Metal	F86645-15 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.2	3	106.7	0.0	20

Associated samples MP21488: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21488
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/12/11

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP21488: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

QC Batch ID: MP21488
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:			10/12/11				10/12/11	
Metal	F86645-15 Original	SDL 1:5	%DIF	QC Limits	F86645-22 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC (a)	0-10	0.00	0.407	100.0(a)	0-10

Associated samples MP21488: F86441-1, F86441-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN46685	5.0	0.0	mg/l	250	238	95.2	90-113%
Chloride	GP17827/GN46575	2.0	0.0	mg/l	50	53.3	106.6	90-110%
Chromium, Hexavalent	GN46565	0.010	0.0	mg/l	.100	0.092	92.5	78-120%
Cyanide, Total	GP17839/GN46650	0.010	0.0	mg/l	0.1	0.110	110.0	90-110%
Nitrogen, Nitrate	GP17827/GN46575	0.10	0.0	mg/l	2.5	2.64	105.6	90-110%
Nitrogen, Nitrite	GP17827/GN46575	0.10	0.0	mg/l	2.5	2.58	103.2	90-110%
Solids, Total Dissolved	GN46629	100	0.0	mg/l				
Sulfate	GP17827/GN46575	2.0	0.0	mg/l	50	54.3	108.6	90-110%

Associated Samples:
Batch GN46565: F86441-1
Batch GN46629: F86441-1
Batch GN46685: F86441-1
Batch GP17827: F86441-1
Batch GP17839: F86441-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN46685	F86547-3	mg/l	72.8	77.5	6.2	0-20%
Chloride	GP17827/GN46575	F86429-12	mg/l	13.3	13.7	3.0	0-20%
Chromium, Hexavalent	GN46565	F86441-1	mg/l	0.0	0.0	0.0	0-34%
Cyanide, Total	GP17839/GN46650	F86417-1	mg/l	0.0050 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP17827/GN46605	F86429-12	mg/l	178	176(a)	1.1	0-20%
Nitrogen, Nitrite	GP17827/GN46575	F86429-12	mg/l	0.25 U	0.0	0.0	0-20%
Solids, Total Dissolved	GN46629	F86429-12	mg/l	660	658	0.3	0-5%
Sulfate	GP17827/GN46575	F86429-12	mg/l	30.1	32.5	7.7	0-20%

Associated Samples:
Batch GN46565: F86441-1
Batch GN46629: F86441-1
Batch GN46685: F86441-1
Batch GP17827: F86441-1
Batch GP17839: F86441-1
(*) Outside of QC limits
(a) Originally ran on GN465745. Re-run on dilution beyond holding time.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN46685	F86547-3	mg/l	72.8	250	307	93.5	90-113%
Chloride	GP17827/GN46575	F86429-12	mg/l	13.3	50	65.7	104.8	90-110%
Chromium, Hexavalent	GN46565	F86441-1	mg/l	0.0	.100	0.098	97.5	78-120%
Cyanide, Total	GP17839/GN46650	F86417-1	mg/l	0.0050 U	0.1	0.14	140.0N(a)	90-110%
Nitrogen, Nitrate	GP17827/GN46605	F86429-12	mg/l	178	2.5	153(b)	-1000.0(c)	90-110%
Nitrogen, Nitrite	GP17827/GN46575	F86429-12	mg/l	0.25 U	2.5	3.0	120.0N(d)	90-110%
Sulfate	GP17827/GN46575	F86429-12	mg/l	30.1	50	69.6	79.0N(d)	90-110%

Associated Samples:
Batch GN46565: F86441-1
Batch GN46685: F86441-1
Batch GP17827: F86441-1
Batch GP17839: F86441-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery outside of acceptable QC criteria.
(b) Originally ran on GN46575. Re-run on dilution beyond holding time.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(d) Spike recovery indicates possible matrix interference.

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MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN46685	F86547-3	mg/l	72.8	250	300	2.3	20%

Associated Samples:
Batch GN46685: F86441-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311290901.TXT Date Analyzed: 09/29/11 Methods: EPA 300/SW846 9056A
Analyst: TC Run ID: GN46575
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:20	GN46575-CCV1	1		
09:36	GN46575-CCB1	1		
09:52	GP17826-MB1	1		
10:08	GP17826-B1	1		
10:40	ZZZZZZ	100		
10:56	ZZZZZZ	500		
11:12	F86395-1	1		(sample used for QC only; not part of login F86441)
11:28	ZZZZZZ	1		
11:44	F86395-3	1		(sample used for QC only; not part of login F86441)
12:00	ZZZZZZ	1		
12:16	ZZZZZZ	5		
12:31	GN46575-CCV2	1		
12:47	GN46575-CCB2	1		
13:03	ZZZZZZ	5		
13:19	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:51	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:39	ZZZZZZ	1		
14:55	ZZZZZZ	2		
15:11	ZZZZZZ	1		
15:27	ZZZZZZ	1		
15:43	GN46575-CCV3	1		
15:59	GN46575-CCB3	1		
16:15	ZZZZZZ	1		
16:30	ZZZZZZ	5		
16:46	ZZZZZZ	1		
17:02	GP17826-D1	1		
17:18	GP17826-S1	1		
17:34	GP17826-D2	1		
17:50	GP17826-S2	1		
18:06	GN46575-CCV4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311290901.TXT Date Analyzed: 09/29/11 Methods: EPA 300/SW846 9056A
Analyst: TC Run ID: GN46575
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:22	GN46575-CCB4	1		
18:38	GP17827-MB1	1		
18:54	GP17827-B1	1		
19:10	ZZZZZZ	1		
19:26	F86429-4	1		(sample used for QC only; not part of login F86441)
19:42	ZZZZZZ	1		
19:58	ZZZZZZ	1		
20:13	ZZZZZZ	500		
20:29	ZZZZZZ	1		
20:45	ZZZZZZ	1		
21:01	ZZZZZZ	1		
21:17	GN46575-CCV5	1		
21:33	GN46575-CCB5	1		
21:49	ZZZZZZ	1		
22:05	F86429-12	5		(sample used for QC only; not part of login F86441)
22:21	ZZZZZZ	1		
22:37	ZZZZZZ	1		
22:53	ZZZZZZ	1		
23:09	ZZZZZZ	1		
23:25	ZZZZZZ	1		
23:41	ZZZZZZ	5		
23:57	GP17827-D1	5		
00:12	GP17827-S1	5		
00:28	GN46575-CCV6	1		
00:44	GN46575-CCB6	1		
01:00	GP17827-D2	1		
01:16	GP17827-S2	1		
01:32	F86441-1	50		
01:48	ZZZZZZ	2		
02:04	ZZZZZZ	5		
02:20	ZZZZZZ	10		
02:36	ZZZZZZ	10		
02:52	ZZZZZZ	25		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311290901.TXT Date Analyzed: 09/29/11 Methods: EPA 300/SW846 9056A
Analyst: TC Run ID: GN46575
Parameters: Chloride,Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:08	ZZZZZZ	5		
03:24	ZZZZZZ	100		
03:40	GN46575-CCV7	1		
03:55	GN46575-CCB7	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311290901.TXT Date Analyzed: 09/29/11 Methods: EPA 300/SW846 9056A
Run ID: GN46575 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN46575-CCV1	Chloride	48.8	2.0	1.0	50	97.6	90-110
GN46575-CCV1	Nitrogen, Nitrite	2.4	0.10	0.050	2.5	96.0	90-110
GN46575-CCV1	Nitrogen, Nitrate	2.5	0.10	0.050	2.5	100.0	90-110
GN46575-CCV1	Sulfate	49.2	2.0	1.0	50	98.4	90-110
GN46575-CCB1	Chloride	1.0 U	2.0	1.0			
GN46575-CCB1	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB1	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV2	Chloride	51.6	2.0	1.0	50	103.2	90-110
GN46575-CCV2	Nitrogen, Nitrite	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN46575-CCV2	Sulfate	50.4	2.0	1.0	50	100.8	90-110
GN46575-CCB2	Chloride	1.0 U	2.0	1.0			
GN46575-CCB2	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB2	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV3	Chloride	52.4	2.0	1.0	50	104.8	90-110
GN46575-CCV3	Nitrogen, Nitrite	2.5	0.10	0.050	2.5	100.0	90-110
GN46575-CCV3	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN46575-CCV3	Sulfate	49.1	2.0	1.0	50	98.2	90-110
GN46575-CCB3	Chloride	1.0 U	2.0	1.0			
GN46575-CCB3	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB3	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV4	Chloride	53.3	2.0	1.0	50	106.6	90-110
GN46575-CCV4	Nitrogen, Nitrite	2.6	0.10	0.050	2.5	104.0	90-110
GN46575-CCV4	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV4	Sulfate	51.2	2.0	1.0	50	102.4	90-110
GN46575-CCB4	Chloride	1.0 U	2.0	1.0			
GN46575-CCB4	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB4	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV5	Chloride	53.2	2.0	1.0	50	106.4	90-110
GN46575-CCV5	Nitrogen, Nitrite	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV5	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV5	Sulfate	50.5	2.0	1.0	50	101.0	90-110
GN46575-CCB5	Chloride	1.0 U	2.0	1.0			
GN46575-CCB5	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB5	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV6	Chloride	54.4	2.0	1.0	50	108.8	90-110
GN46575-CCV6	Nitrogen, Nitrite	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV6	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV6	Sulfate	51.2	2.0	1.0	50	102.4	90-110
GN46575-CCB6	Chloride	1.0 U	2.0	1.0			
GN46575-CCB6	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB6	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46575-CCB6	Sulfate	1.0 U	2.0	1.0			
GN46575-CCV7	Chloride	54.4	2.0	1.0	50	108.8	90-110
GN46575-CCV7	Nitrogen, Nitrite	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV7	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46575-CCV7	Sulfate	53.2	2.0	1.0	50	106.4	90-110
GN46575-CCB7	Chloride	1.0 U	2.0	1.0			
GN46575-CCB7	Nitrogen, Nitrite	0.050 U	0.10	0.050			
GN46575-CCB7	Nitrogen, Nitrate	0.050 U	0.10	0.050			

Instrument QC Summary
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311290901.TXT Date Analyzed: 09/29/11 Methods: EPA 300/SW846 9056A
Run ID: GN46575 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN46575-CCB7	Sulfate	1.0 U	2.0	1.0			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311011001.TXT Date Analyzed: 10/01/11 Methods: EPA 300/SW846 9056A
Analyst: TC Run ID: GN46605
Parameters: Nitrogen, Nitrate

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:52	GN46605-CCV1	1		
15:07	GN46605-CCB1	1		
15:23	GP17833-MB1	1		
15:39	GP17833-B1	1		
16:11	ZZZZZZ	2		
16:27	F86518-2	1		(sample used for QC only; not part of login F86441)
16:43	ZZZZZZ	1		
16:59	GP17833-D1	1		
17:15	GP17833-S1	1		
17:30	ZZZZZZ	50		
18:02	GN46605-CCV2	1		
18:18	GN46605-CCB2	1		
18:34	ZZZZZZ	50		
18:50	ZZZZZZ	5		
19:06	ZZZZZZ	5		
19:22	ZZZZZZ	50		
19:38	F86429-4	2		(sample used for QC only; not part of login F86441)
19:54	GP17827-D2	2		
20:10	GP17827-S2	2		
20:26	ZZZZZZ	2		
20:42	ZZZZZZ	5000		
21:13	GN46605-CCV3	1		
21:29	GN46605-CCB3	1		
21:45	ZZZZZZ	2		
22:01	ZZZZZZ	5		
22:17	ZZZZZZ	10		
22:33	F86429-12	50		(sample used for QC only; not part of login F86441)
22:49	GP17827-D1	50		
23:05	GP17827-S1	50		
23:21	ZZZZZZ	10		
23:37	ZZZZZZ	2		
00:09	GN46605-CCV4	1		
00:25	GN46605-CCB4	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311011001.TXT Date Analyzed: 10/01/11 Methods: EPA 300/SW846 9056A
Analyst: TC Run ID: GN46605
Parameters: Nitrogen, Nitrate

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:41	ZZZZZZ	100		
00:57	ZZZZZZ	100		
01:28	ZZZZZZ	100		
01:44	ZZZZZZ	200		
02:00	ZZZZZZ	2		
02:16	ZZZZZZ	50		
02:32	ZZZZZZ	2		
03:04	GN46605-CCV5	1		
03:20	GN46605-CCB5	1		

Refer to raw data for calibration curve and standards.

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Instrument QC Summary
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: 311011001.TXT Date Analyzed: 10/01/11 Methods: EPA 300/SW846 9056A
Run ID: GN46605 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN46605-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN46605-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46605-CCV2	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN46605-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46605-CCV3	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46605-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46605-CCV4	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46605-CCB4	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN46605-CCV5	Nitrogen, Nitrate	2.7	0.10	0.050	2.5	108.0	90-110
GN46605-CCB5	Nitrogen, Nitrate	0.050 U	0.10	0.050			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A100511CN1.CSV Date Analyzed: 10/05/11 Methods: EPA 335.4/SW 9012B
Analyst: AR Run ID: GN46650
Parameters: Cyanide, Total

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:32	GN46650-ICV1	1		
14:33	GN46650-ICB1	1		
14:34	GN46650-CCV1	1		
14:34	GN46650-CCB1	1		
14:35	GP17839-MB1	1		
14:36	GP17839-B1	1		
14:39	GP17839-D1	1		
14:40	GP17839-S1	1		
14:40	F86417-1	1		(sample used for QC only; not part of login F86441)
14:41	ZZZZZZ	1		
14:42	F86441-1	1		
14:43	ZZZZZZ	1		
14:44	GN46650-CCV2	1		
14:45	GN46650-CCB2	1		

Refer to raw data for calibration curve and standards.

ANALYTICAL DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
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621 Mainstream Drive, Suite 270
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Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 84

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:
No anomalies or deviations are noted.

Data Qualifiers

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

*: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

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Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

SLCMS6850PRCHLT 6850-Perchlorate

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	SLCMS6850PRCHLT (Total)	(Dissolved)	LAB USE ONLY
1110004																		
1X	-01 MA02 MW001D	09/28/11	10:28		GW	1		X								X		
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By/Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 9:30	4 Reynold Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

1110004

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6* = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

11

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confit	Yes		

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

1110004

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC			SDG:	1110004
Client:	Accutest Laboratories			Project:	Accutest
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC			SDG:	1110004
Client:	Accutest Laboratories			Project:	Accutest
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.207662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC
SDG: 1110004
Client: Accutest Laboratories
Project: Accutest
Calibration: 1242005
Laboratory ID: 1J28004-LCV3
Sequence: 1J28004
Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC
SDG: 1110004
Client: Accutest Laboratories
Project: Accutest
Calibration: 1242005
Laboratory ID: 1J28004-LCV4
Sequence: 1J28004
Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC
SDG: 1110004
Client: Accutest Laboratories
Project: Accutest
Calibration: 1242005
Laboratory ID: 1J28004-LCV5
Sequence: 1J28004
Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC

SDG: 1110004

Client: Accutest Laboratories

Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Data for SW6850
Supporting Raw Data / Logs

Sequence Table:

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 71	SEQ-CAL1				
5	Vial 72	SEQ-CAL2				
6	Vial 73	SEQ-CAL3				
7	Vial 74	SEQ-CAL4				
8	Vial 75	SEQ-CAL5				
9	Vial 76	SEQ-CAL6				
10	Vial 77	SEQ-CAL7				
11	Vial 78	SEQ-CAL8				
12	Vial 79	SEQ-ICV1				
13	Vial 3	SEQ-CCV1				
14	Vial 4	SEQ-LCV1				
15	Vial 5	ICS				
16	Vial 2	Reagent Blank				
17	Vial 2	Reagent Blank				
18	Vial 6	1H24012-BLK1				
19	Vial 7	1H24012-BS1				
20	Vial 8	1108162-35				
21	Vial 9	1108162-36				
22	Vial 10	1108162-37				
23	Vial 11	1108162-38				
24	Vial 12	1108162-39				
25	Vial 13	1108162-40				
26	Vial 14	1108162-41				
27	Vial 15	1108162-42				
28	Vial 16	1108162-43				
29	Vial 17	1108162-46				
30	Vial 2	Reagent Blank				
31	Vial 3	SEQ-CCV2				
32	Vial 4	SEQ-LCV2				
33	Vial 18	1108168-01@20				
34	Vial 19	1108168-02@20				
35	Vial 20	1108168-03@20				
36	Vial 21	1108168-04@20				
37	Vial 22	1108168-05@20				
38	Vial 23	1108168-06@20				
39	Vial 24	1108168-07@20				
40	Vial 25	1108168-08@20				
41	Vial 26	1108168-09@20 – RR 4x more				
42	Vial 27	1108168-10@20 – RR 10x more				
43	Vial 28	1H24012-MS1				
44	Vial 29	1H24012-MSD1				
45	Vial 81	Reagent Blank				
46	Vial 3	SEQ-CCV3				
47	Vial 4	SEQ-LCV3				
48	Vial 5	ICS2				
49	Vial 81	Reagent Blank				
50	Vial 81	Reagent Blank				
51	Vial 30	1H24014-BLK1				

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RDW
8-30-11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 31	1H24014-BS1				
53	Vial 32	1108216-01				
54	Vial 33	1108216-02				
55	Vial 34	1108216-03				
56	Vial 35	1108216-04				
57	Vial 36	1108229-01 - RR 2x				
58	Vial 37	1108229-02				
59	Vial 81	Reagent Blank				
60	Vial 38	1H24014-MS1				
61	Vial 81	Reagent Blank				
62	Vial 39	1H24014-MSD1				
63	Vial 82	Reagent Blank				
64	Vial 3	SEQ-CCV4				
65	Vial 4	SEQ-LCV4				

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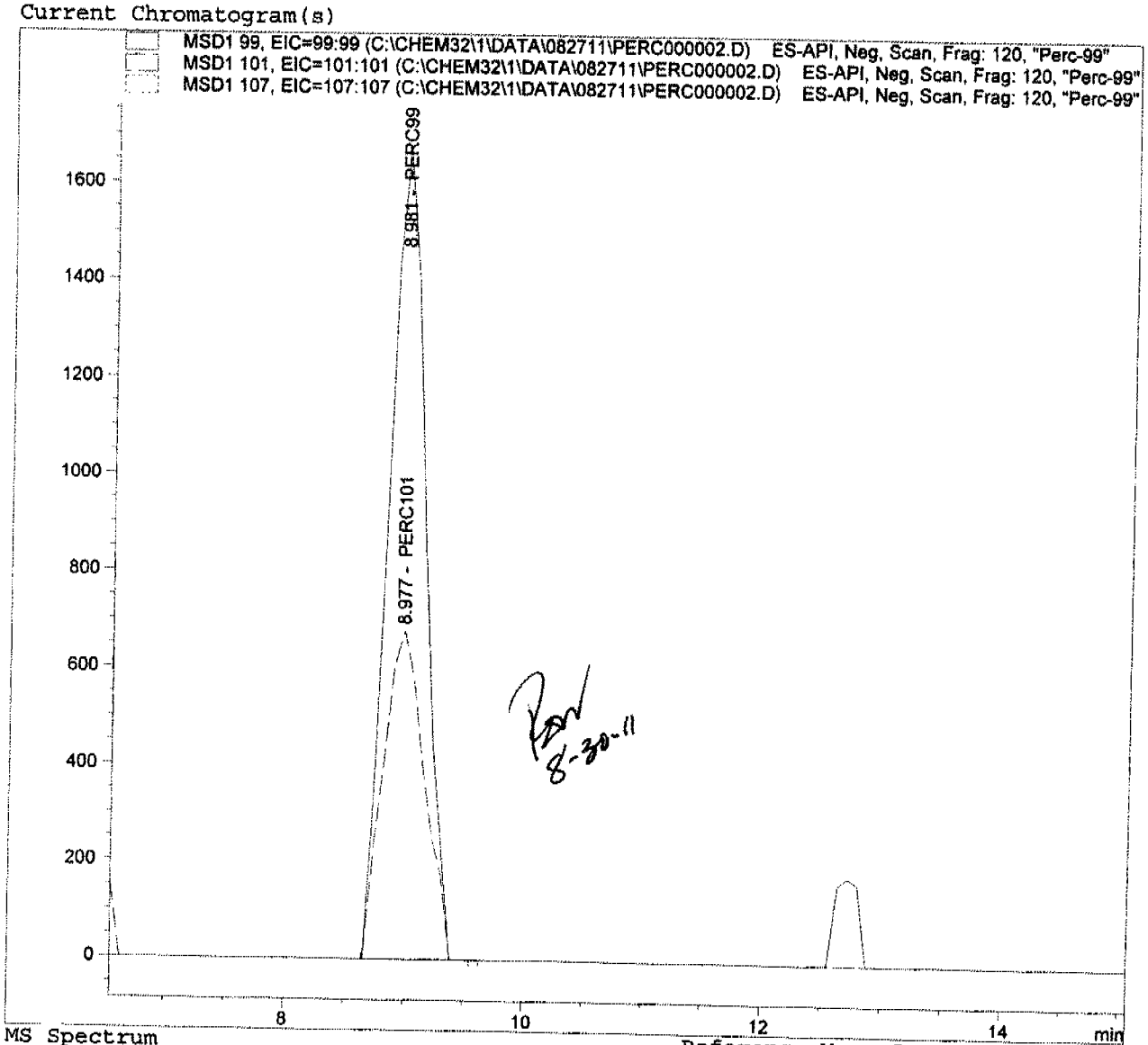
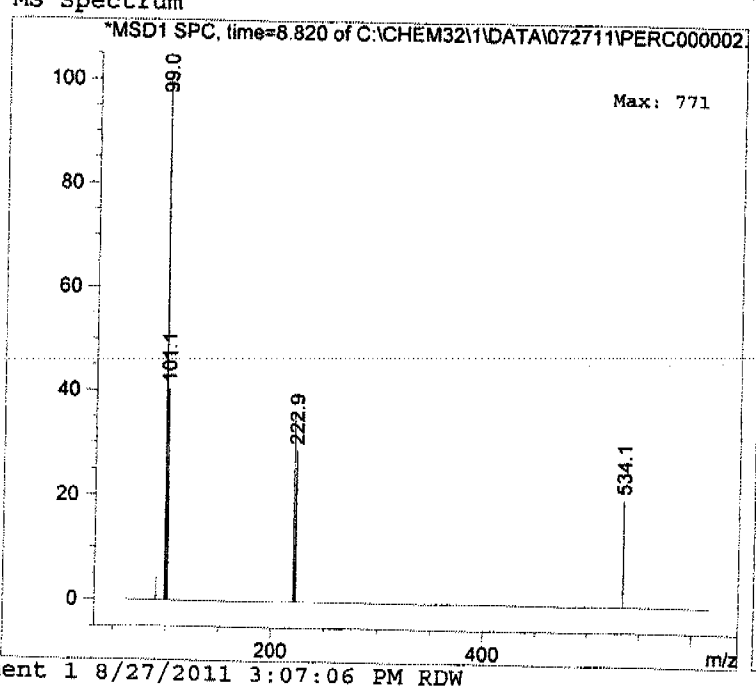
Print of all graphic windows

Current Chromatogram(s)

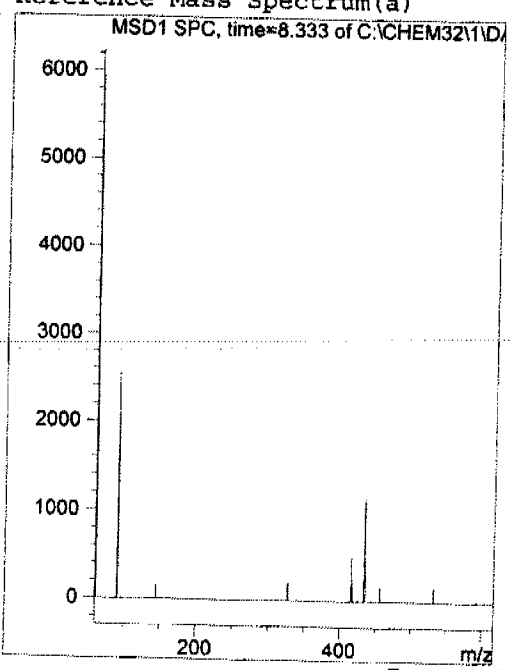


8-30-11

MS Spectrum



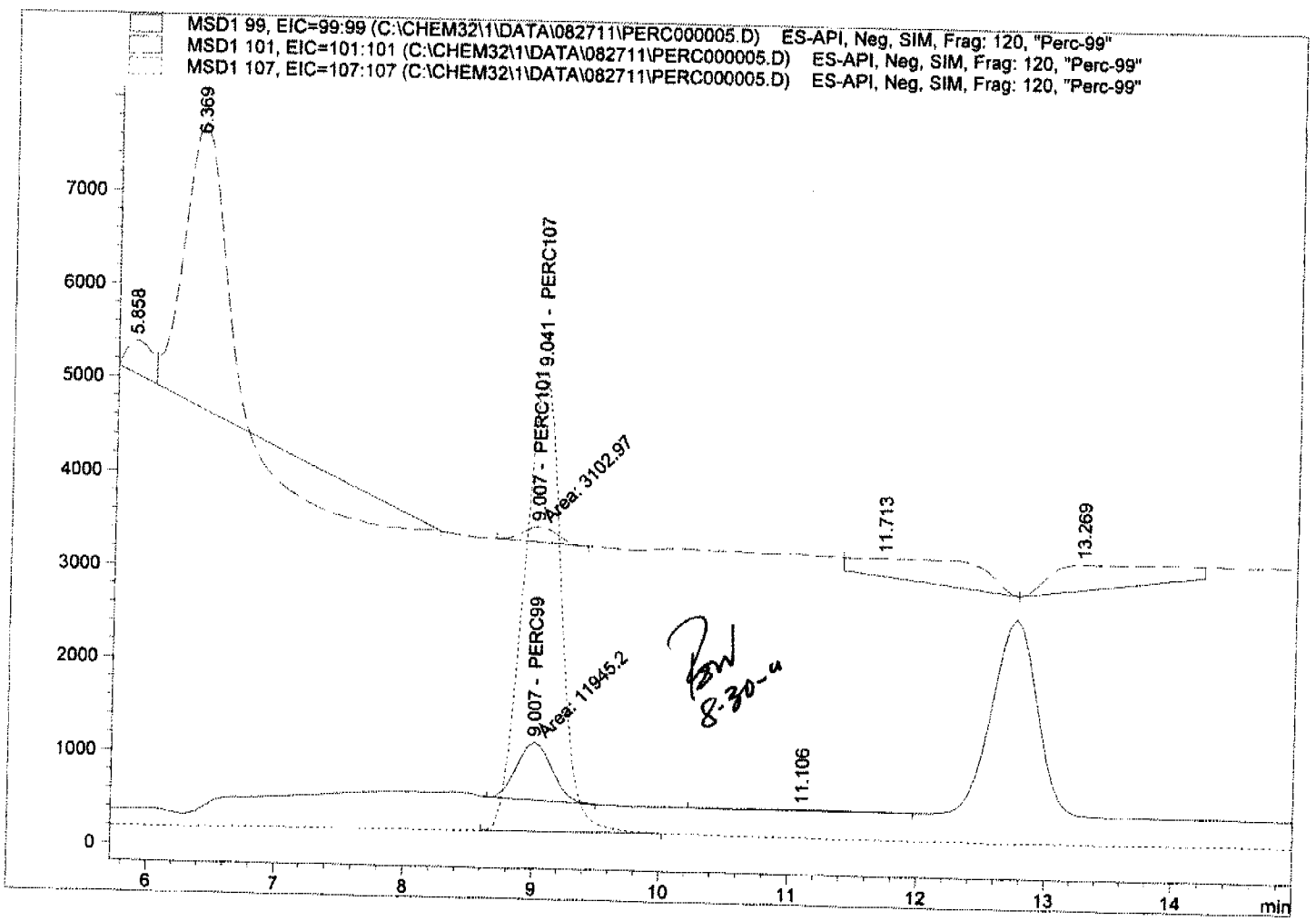
Reference Mass Spectrum(a)



Instrument 1 8/27/2011 3:07:06 PM RDW

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

Acq. Operator	: RDW	Seq. Line	: 5
Acq. Instrument	: Instrument 1	Location	: Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	8/30/2011 11:18:25 AM
Multiplier:	:	1.0000
Dilution:	:	1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name: SEQ-CAL2

```
==========================================================================
Acq. Operator    : RDW                                Seq. Line :   5
Acq. Instrument  : Instrument 1                        Location : Vial 72
Injection Date   : 8/27/2011 2:45:49 PM                    Inj :   1
                                                     Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed     : 8/30/2011 11:18:18 AM by RDW
==========================================================================
```

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	1.19452e4	5.57528e-1	3.36653e-1		PERC99

Totals without ISTD(s) : 3.36653e-1

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.007	MM	1	3102.96851	2.35559	3.69487e-1		PERC101

Totals without ISTD(s) : 3.69487e-1

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.041	BBA I	1	9.89118e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

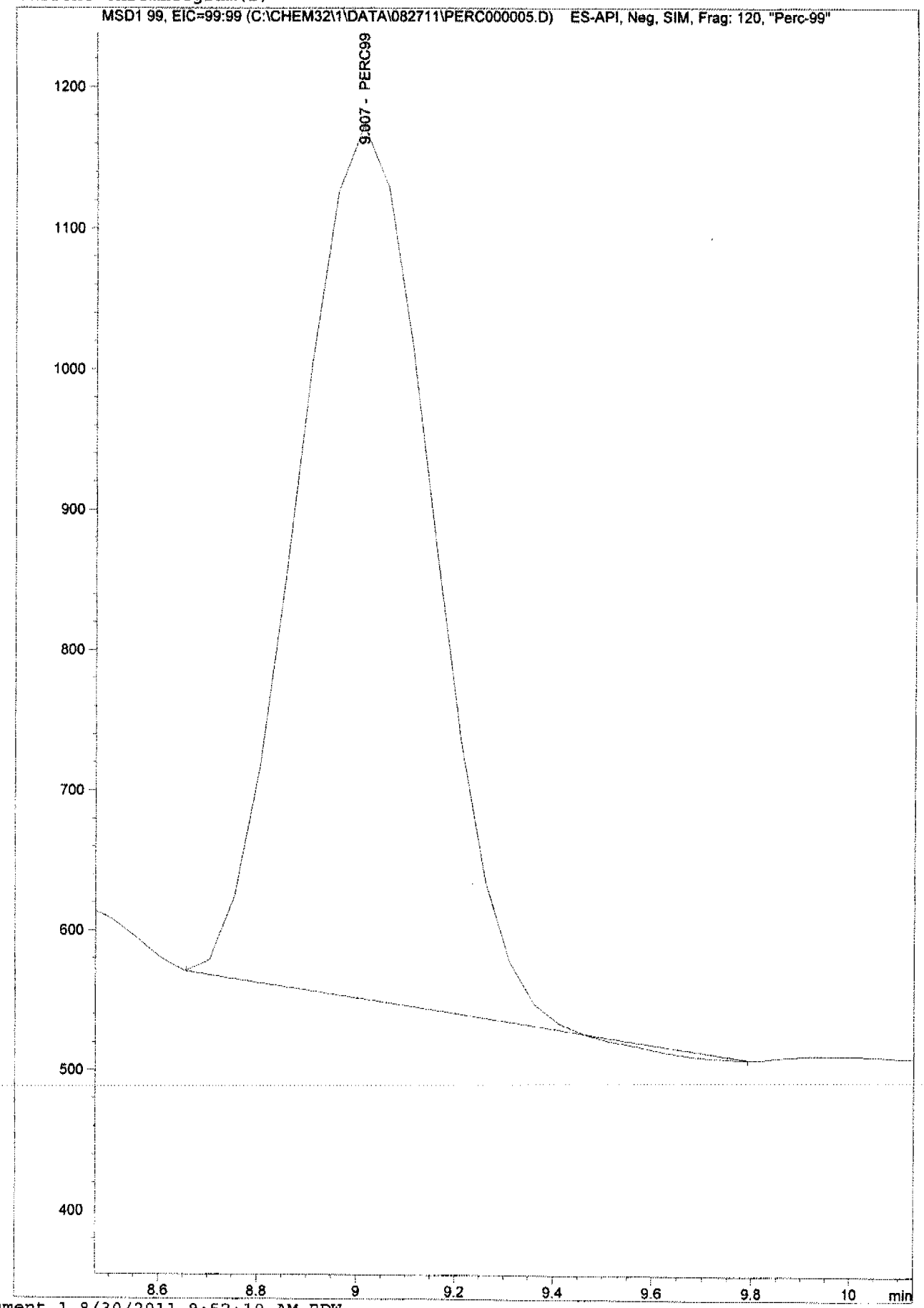
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

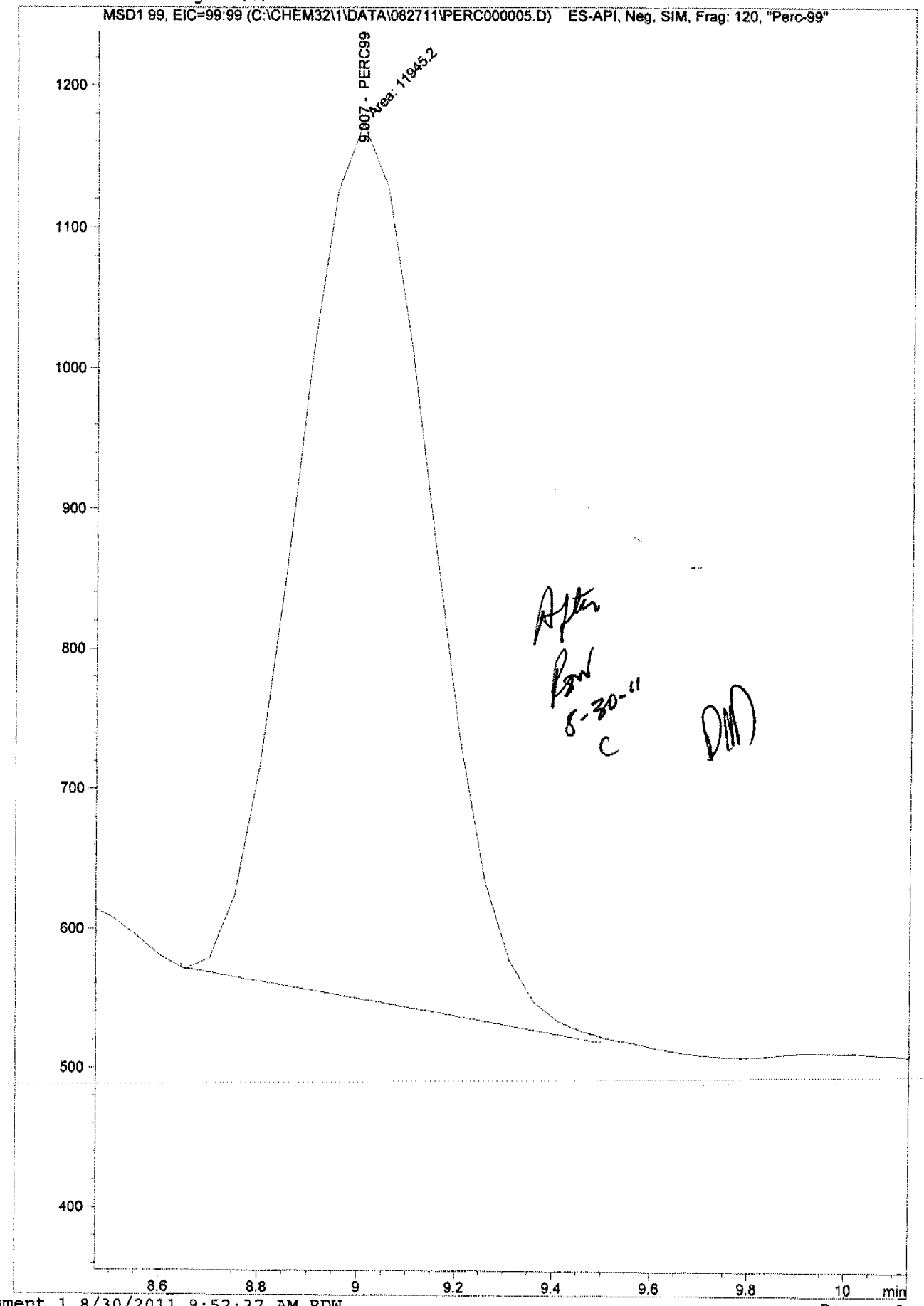
==

*** End of Report ***

Current Chromatogram(s)

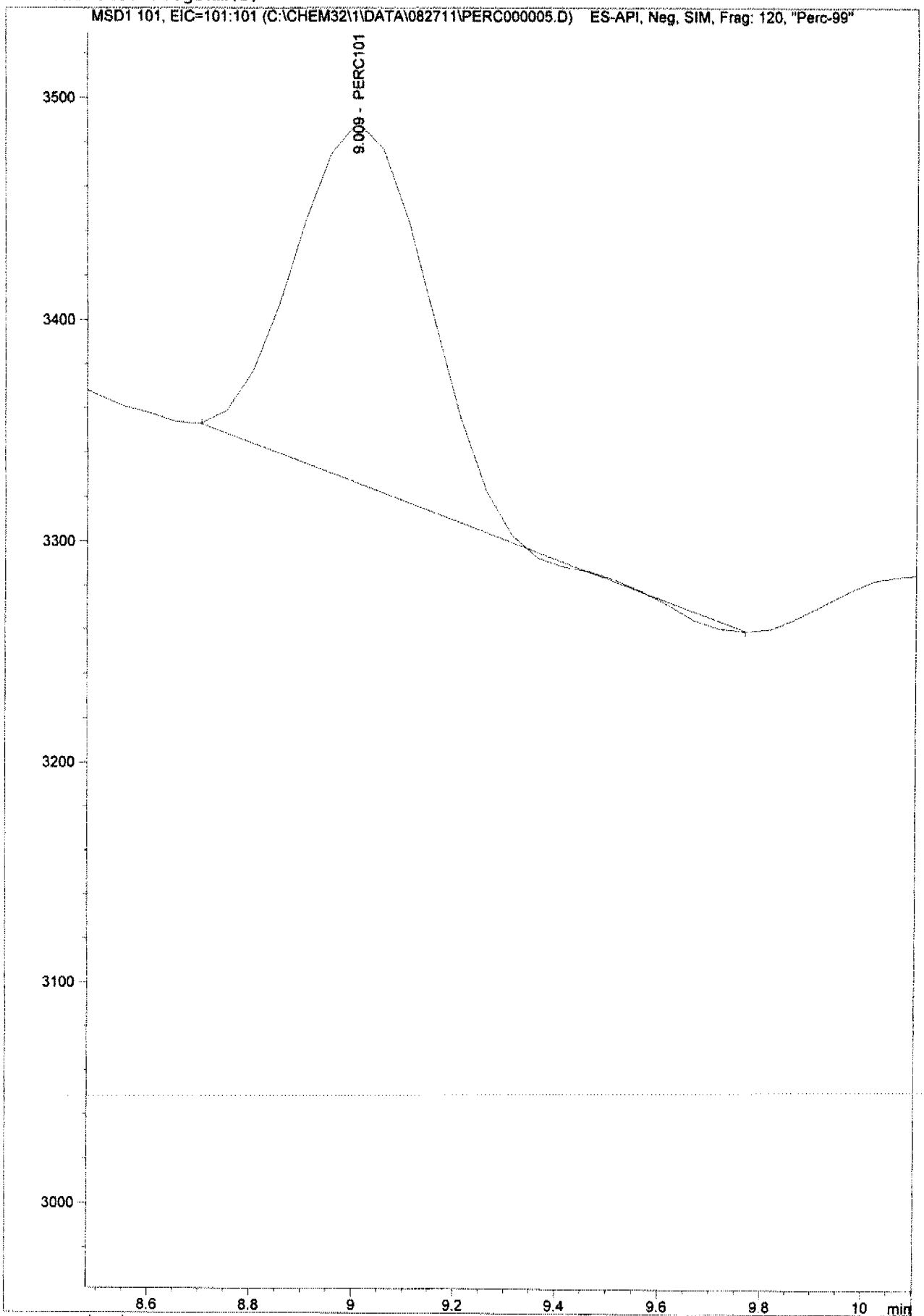


Current Chromatogram(s)



After Rinse 8-30-11 C DM

Current Chromatogram(s)

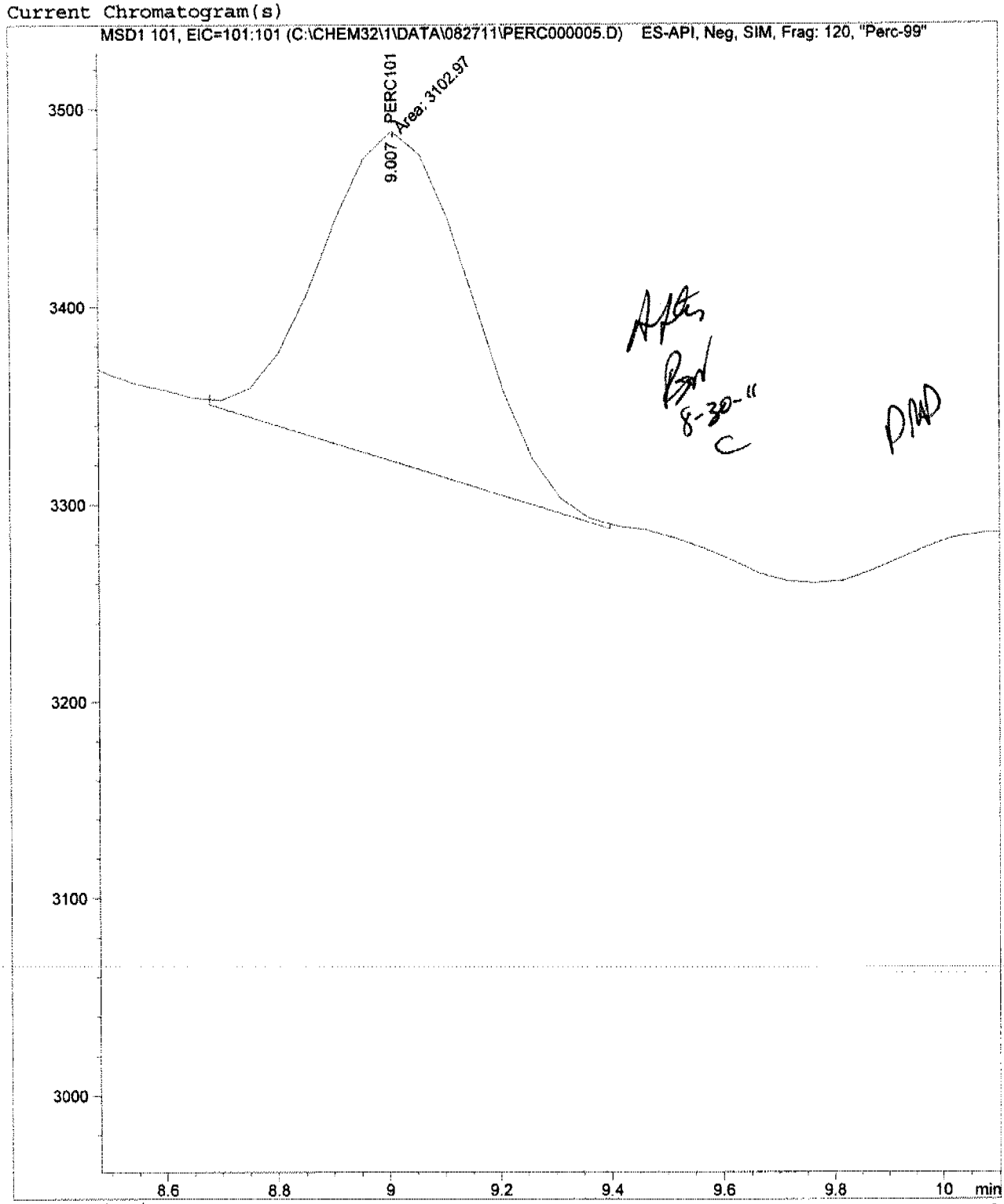


Print of Window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000005.D
Sample Name : SEQ-CAL2

Acq. Operator	: RDW	Seq. Line	: 5
Acq. Instrument	: Instrument 1	Location	: Vial 72
Injection Date	: 8/27/2011 2:45:49 PM	Inj	: 1
		Inj Volume	: 100 µl

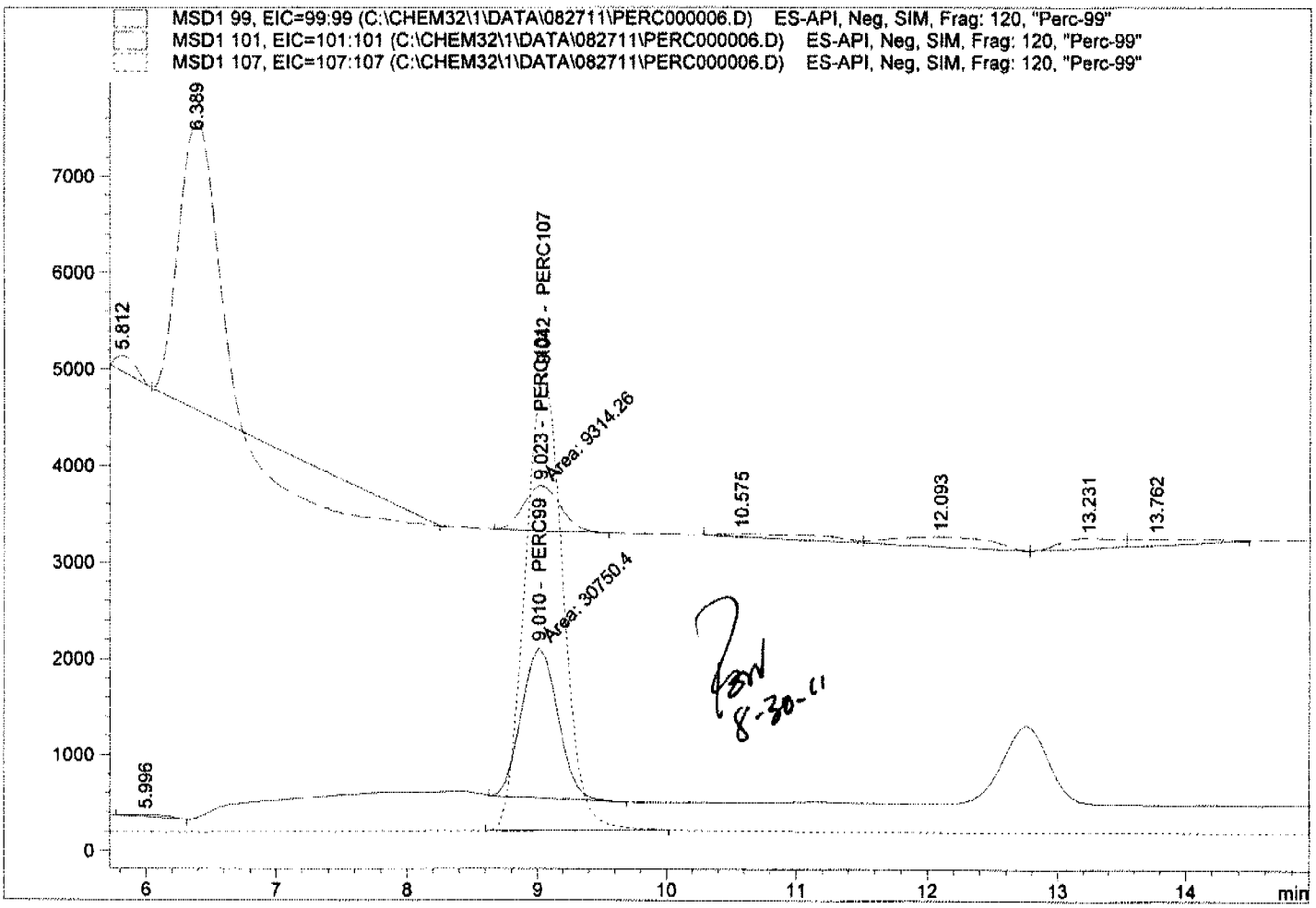
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

```
================================================================================
Acq. Operator    : RDW                                  Seq. Line :   6
Acq. Instrument  : Instrument 1                          Location : Vial 73
Injection Date   : 8/27/2011 3:04:43 PM                      Inj :   1
                                                       Inj Volume : 100 µl
Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed     : 8/30/2011 11:18:18 AM by RDW
================================================================================
```




```
================================================================================
                        Internal Standard Report
================================================================================

Sorted By             :      Signal
Calib. Data Modified  :      8/30/2011 11:18:25 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount    Name
  #      [ug/L]
----|-------------|-------------------------
  1      5.00000    PERC107
```

Data File C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name: SEQ-CAL3

Acq. Operator : RDW Seq. Line : 6
Acq. Instrument : Instrument 1 Location : Vial 73
Injection Date : 8/27/2011 3:04:43 PM Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.010	MM	1	3.07504e4	7.23573e-1	1.15415		PERC99

Totals without ISTD(s) : 1.15415

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.023	MM	1	9314.26172	2.45593	1.18656		PERC101

Totals without ISTD(s) : 1.18656

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.042	BBA I	1	9.63925e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

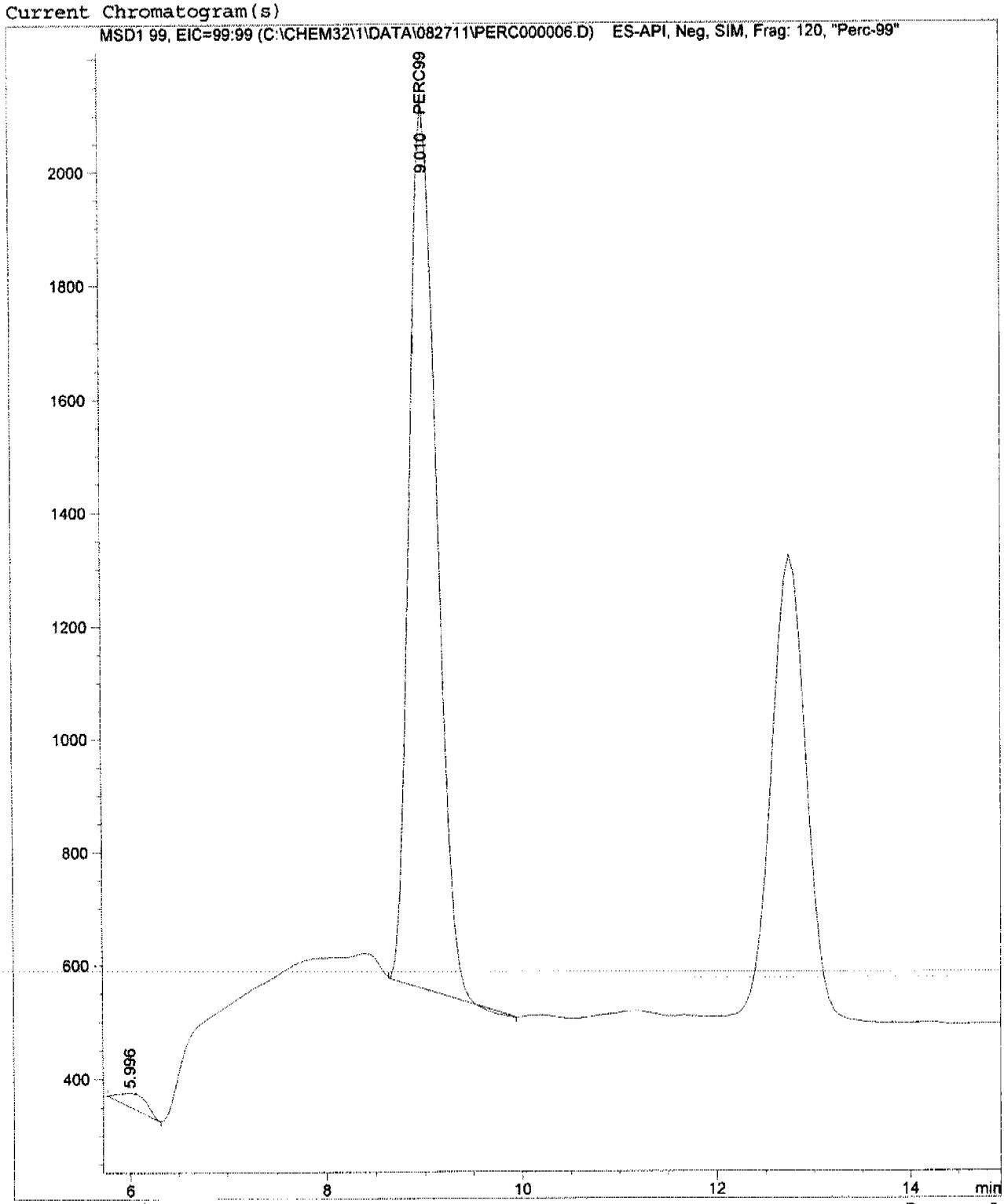
*** End of Report ***

Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator : RDW
Seq. Line : 6
Acq. Instrument : Instrument 1
Location : Vial 73
Injection Date : 8/27/2011 3:04:43 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

Current Chromatogram(s)

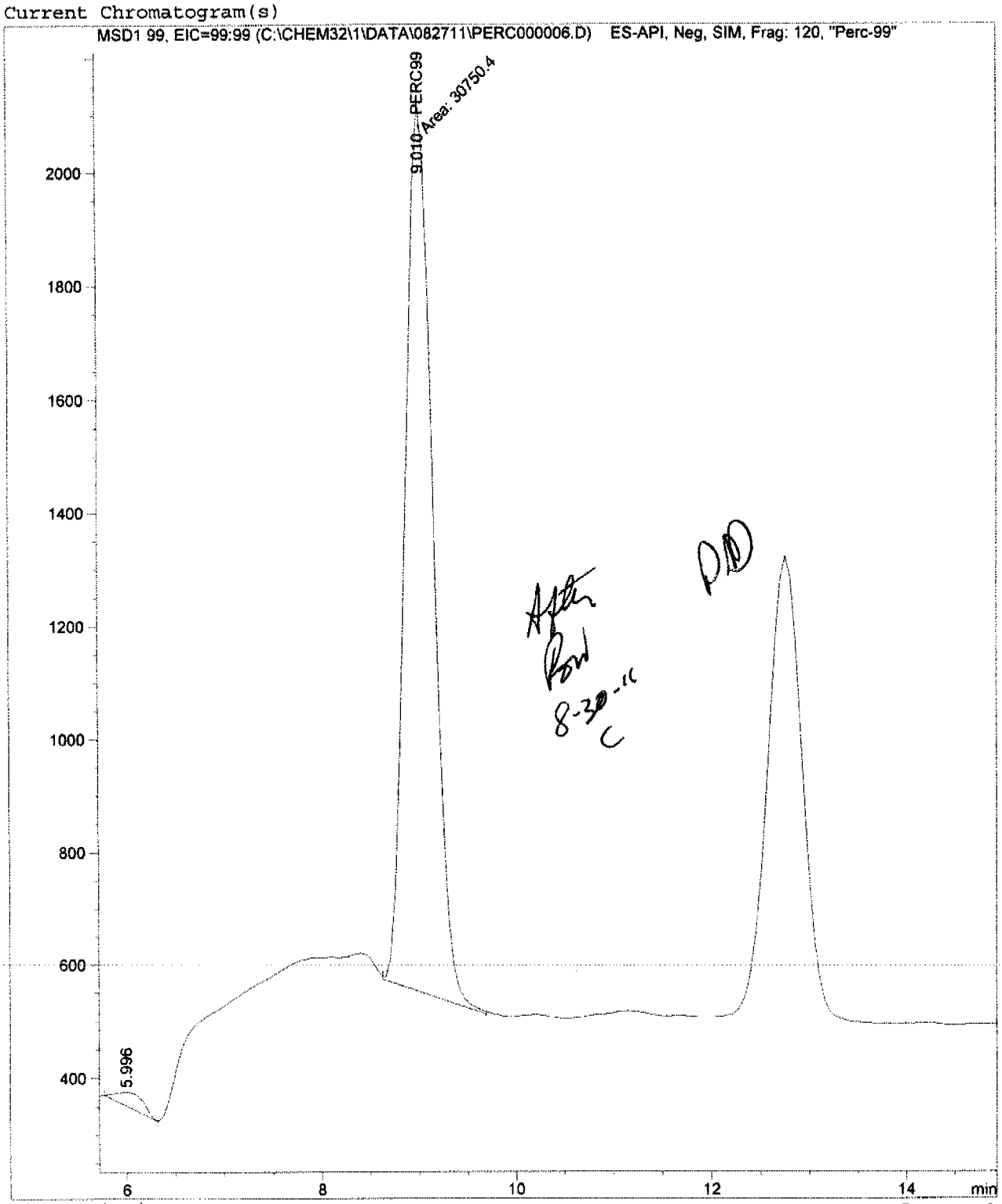


Print of window 38: Current Chromatogram(s)
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator : RDW
Seq. Line : 6
Acq. Instrument : Instrument 1
Location : Vial 73
Injection Date : 8/27/2011 3:04:43 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M
Last changed : 8/27/2011 12:42:36 PM by RDW

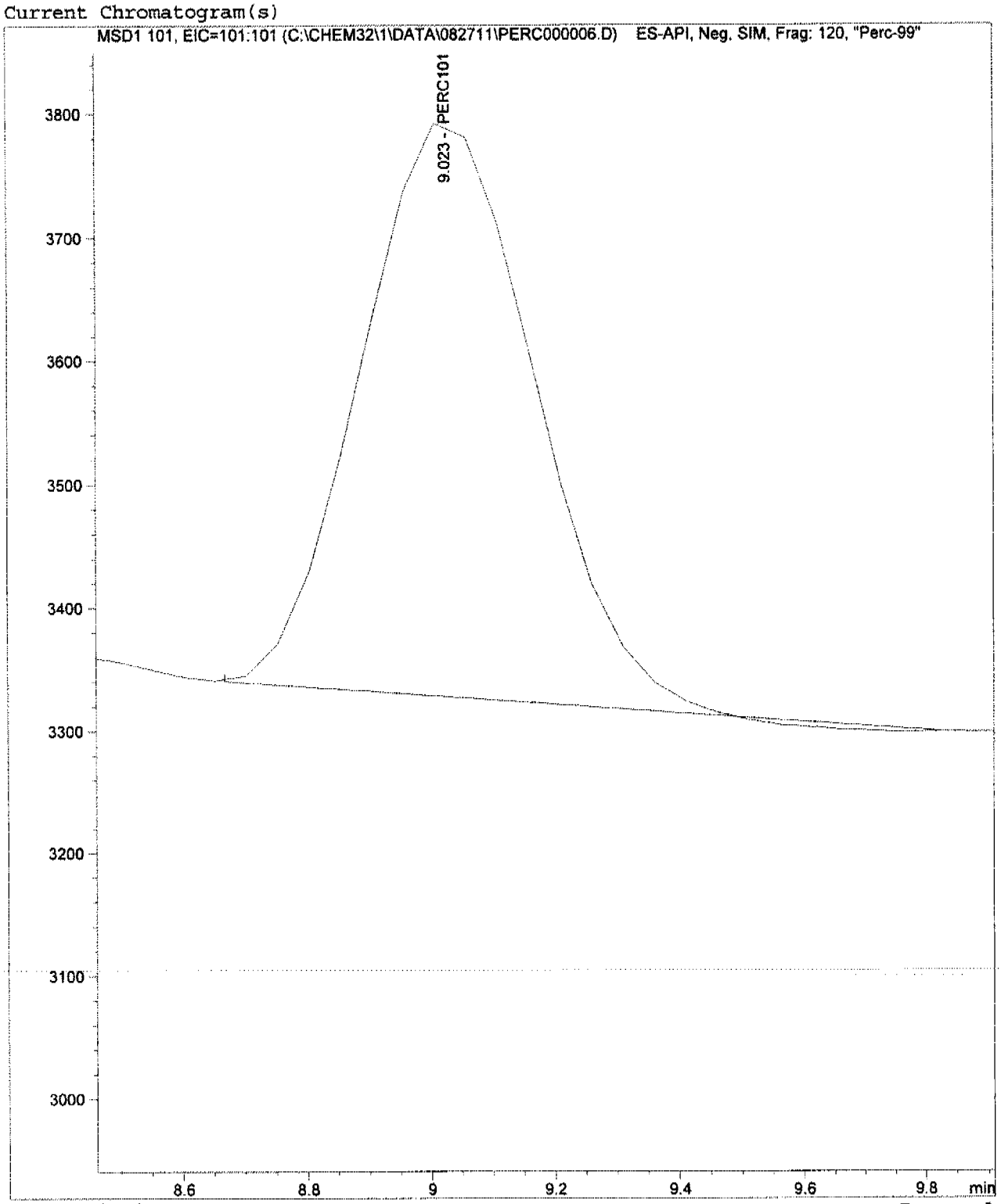
Current Chromatogram(s)



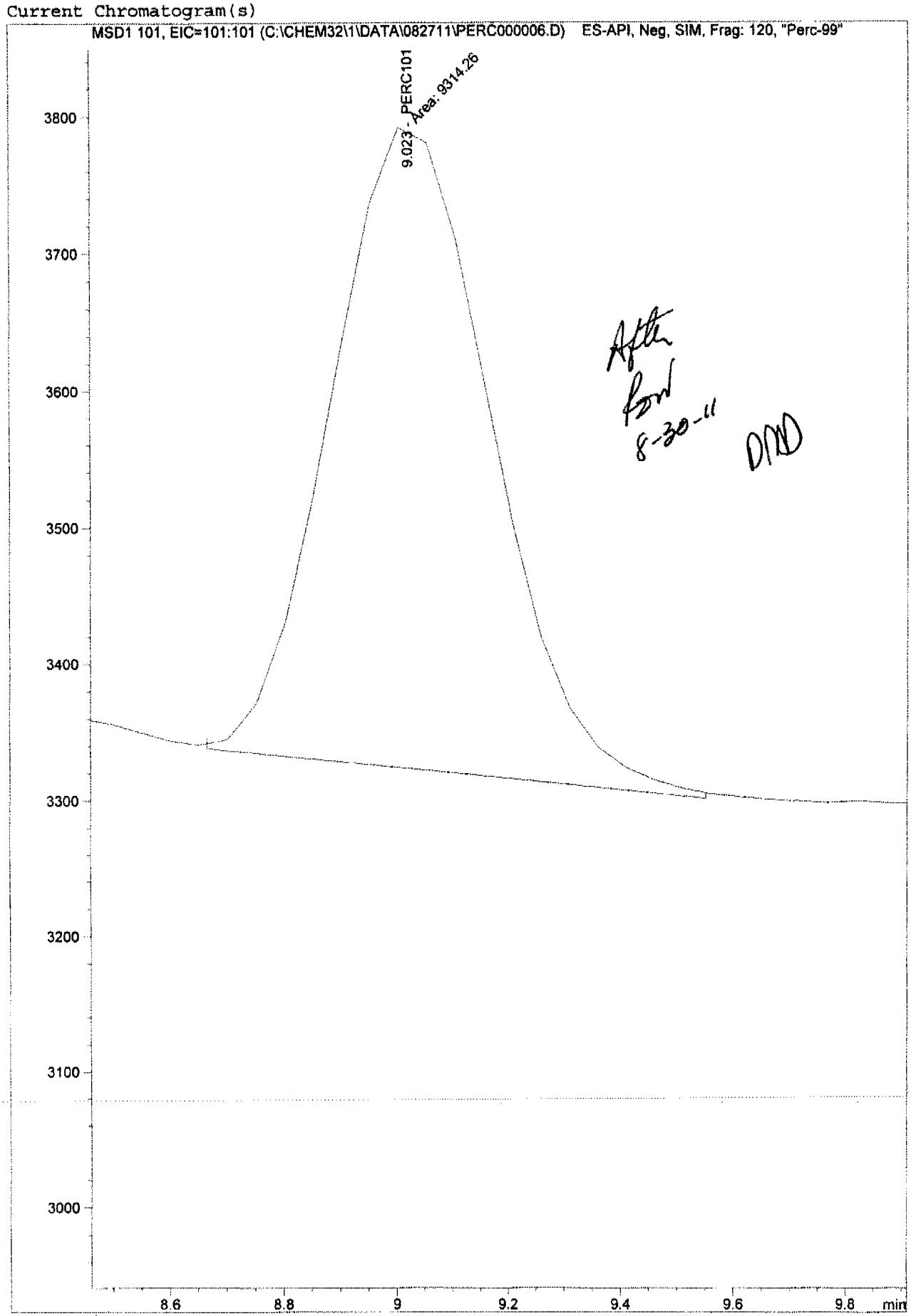
Data File : C:\CHEM32\1\DATA\082711\PERC000006.D
Sample Name : SEQ-CAL3

Acq. Operator	: RDW	Seq. Line	: 6
Acq. Instrument	: Instrument 1	Location	: Vial 73
Injection Date	: 8/27/2011 3:04:43 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082211ICAL.M		
Last changed	: 8/27/2011 12:42:36 PM by RDW		

Current Chromatogram(s)

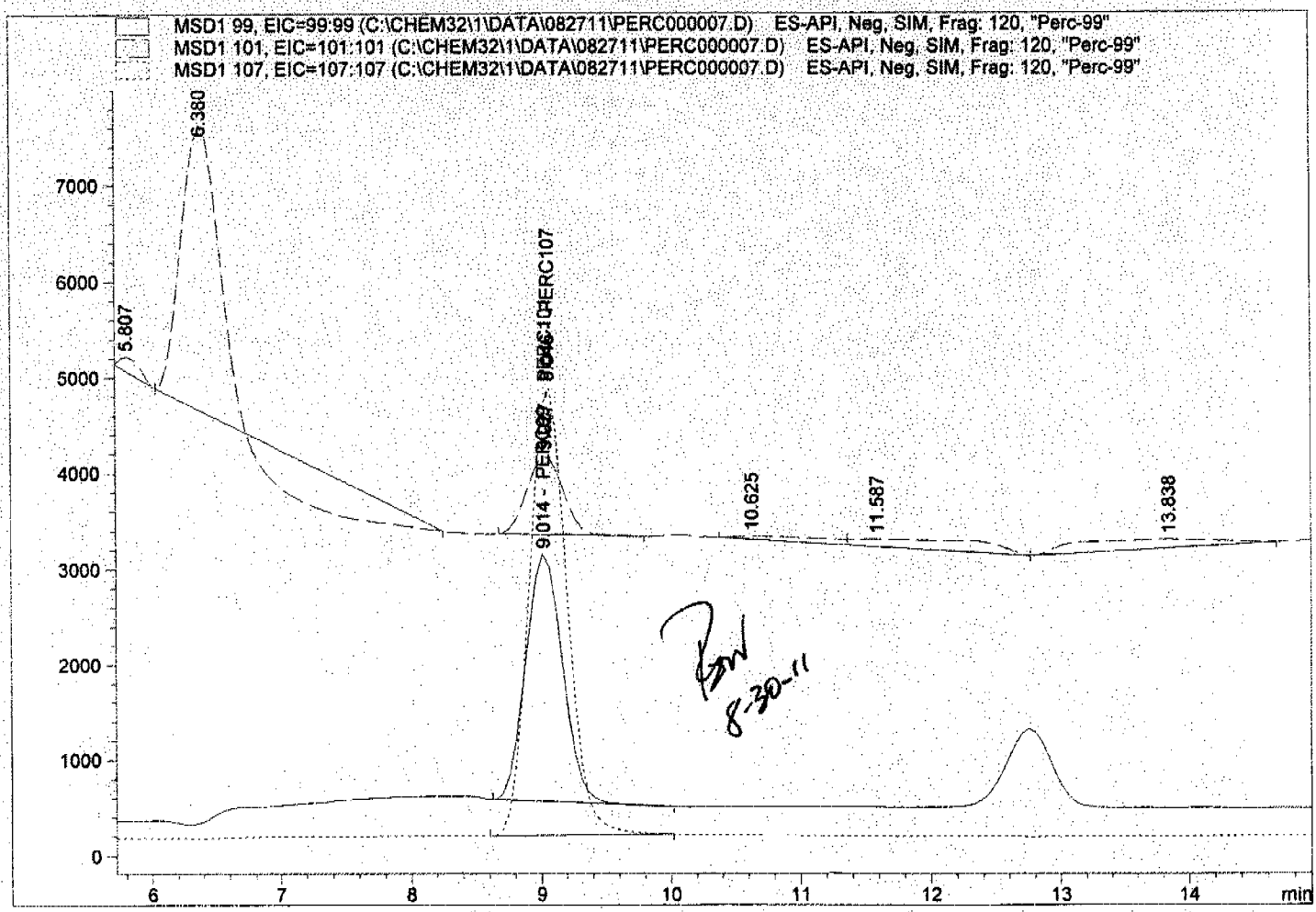


Current Chromatogram(s)



Data File C:\CHEM32\1\DATA\082711\PERC000007.D
Sample Name: SEQ-CAL4

Acq. Operator	: RDW	Seq. Line	: 7
Acq. Instrument	: Instrument 1	Location	: Vial 74
Injection Date	: 8/27/2011 3:23:33 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 8/30/2011 11:18:25 AM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000007.D
Sample Name: SEQ-CAL4

Acq. Operator : RDW
Seq. Line : 7
Acq. Instrument : Instrument 1
Location : Vial 74
Injection Date : 8/27/2011 3:23:33 PM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.014	VBA	1	5.09053e4	7.64671e-1	2.05443		PERC99

Totals without ISTD(s) : 2.05443

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.027	BV	1	1.57252e4	2.47608	2.05501		PERC101

Totals without ISTD(s) : 2.05501

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.046	BBA I	1	9.47365e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

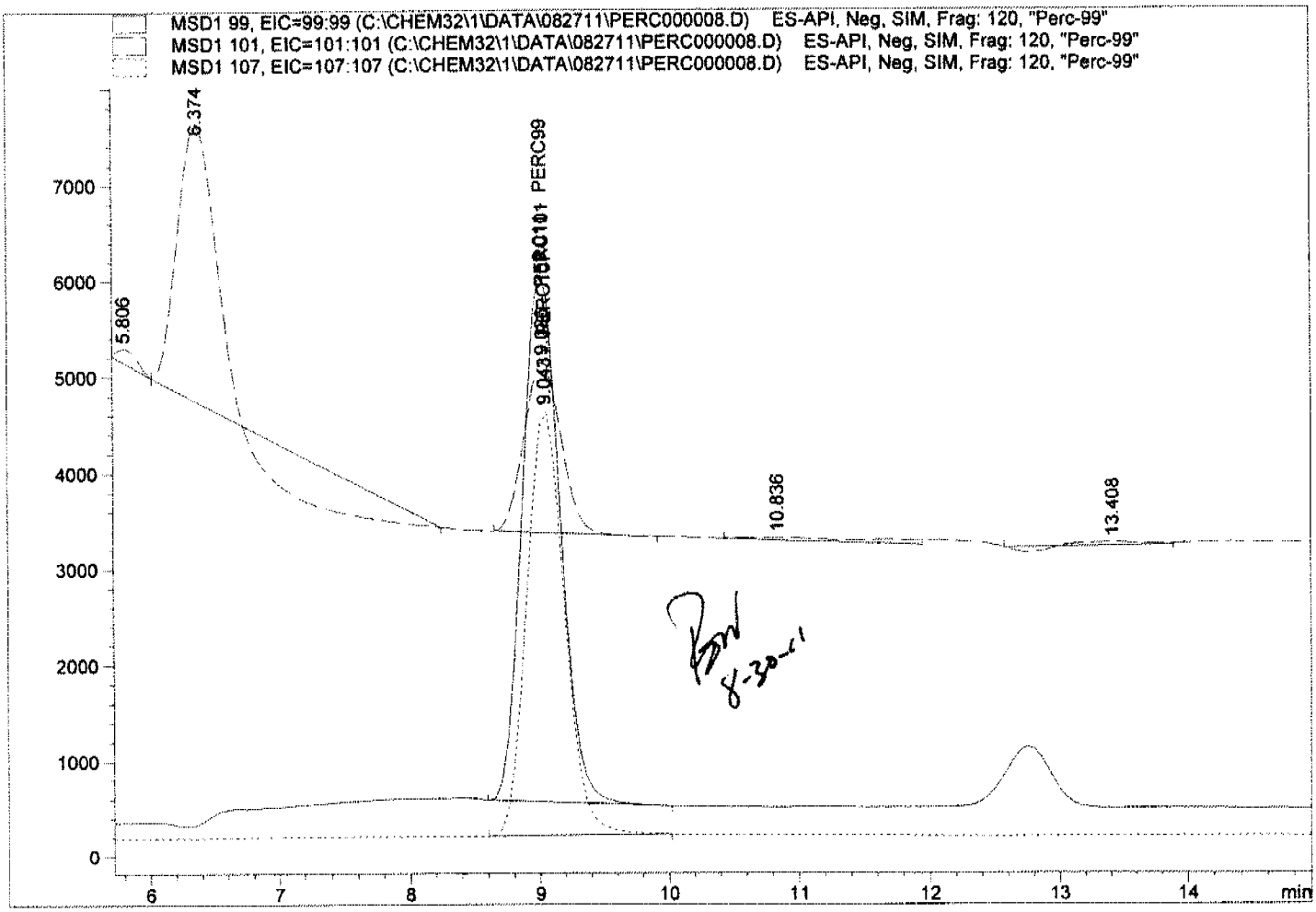
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

Acq. Operator	: RDW	Seq. Line	: 8
Acq. Instrument	: Instrument 1	Location	: Vial 75
Injection Date	: 8/27/2011 3:42:20 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 8/30/2011 11:18:25 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000008.D
Sample Name: SEQ-CAL5

Acq. Operator : RDW
Acq. Instrument : Instrument 1
Injection Date : 8/27/2011 3:42:20 PM
Seq. Line : 8
Location : Vial 75
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.011	VBA	1	1.11488e5	7.98669e-1	4.94582		PERC99

Totals without ISTD(s) : 4.94582

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.026	BB	1	3.48506e4	2.49212	4.82415		PERC101

Totals without ISTD(s) : 4.82415

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.043	BBA I	1	9.00178e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

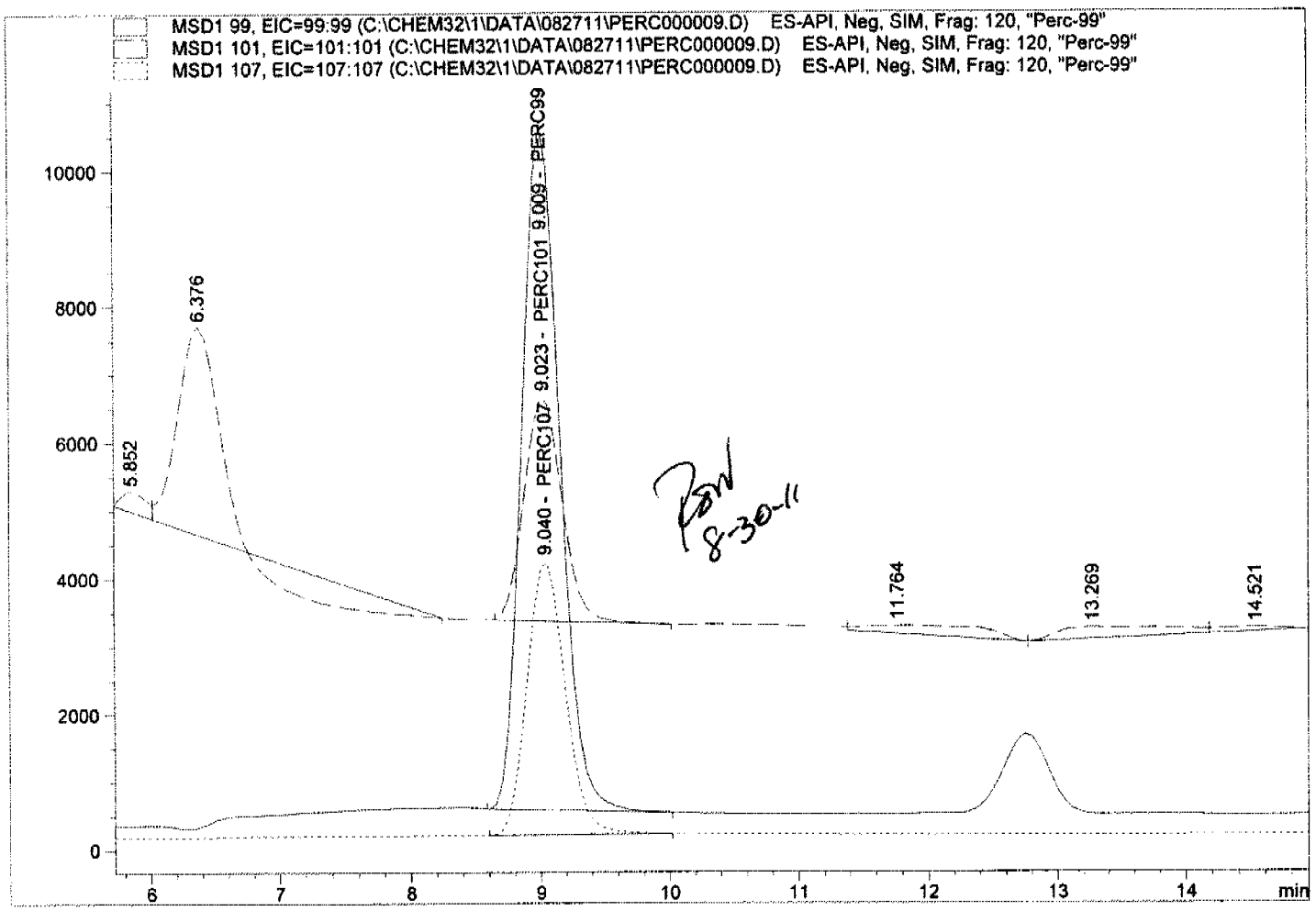
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

Acq. Operator	: RDW	Seq. Line	: 9
Acq. Instrument	: Instrument 1	Location	: Vial 76
Injection Date	: 8/27/2011 4:01:04 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M		
Last changed	: 8/30/2011 11:18:18 AM by RDW		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 8/30/2011 11:18:25 AM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\082711\PERC000009.D
Sample Name: SEQ-CAL6

Acq. Operator : RDW
Seq. Line : 9
Acq. Instrument : Instrument 1
Location : Vial 76
Injection Date : 8/27/2011 4:01:04 PM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.009	VBA	1	2.05426e5	8.11639e-1	10.00896		PERC99

Totals without ISTD(s) : 10.00896

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.023	BBA	1	6.71082e4	2.49838	10.06479		PERC101

Totals without ISTD(s) : 10.06479

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.040	BBA	I 1	8.32912e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

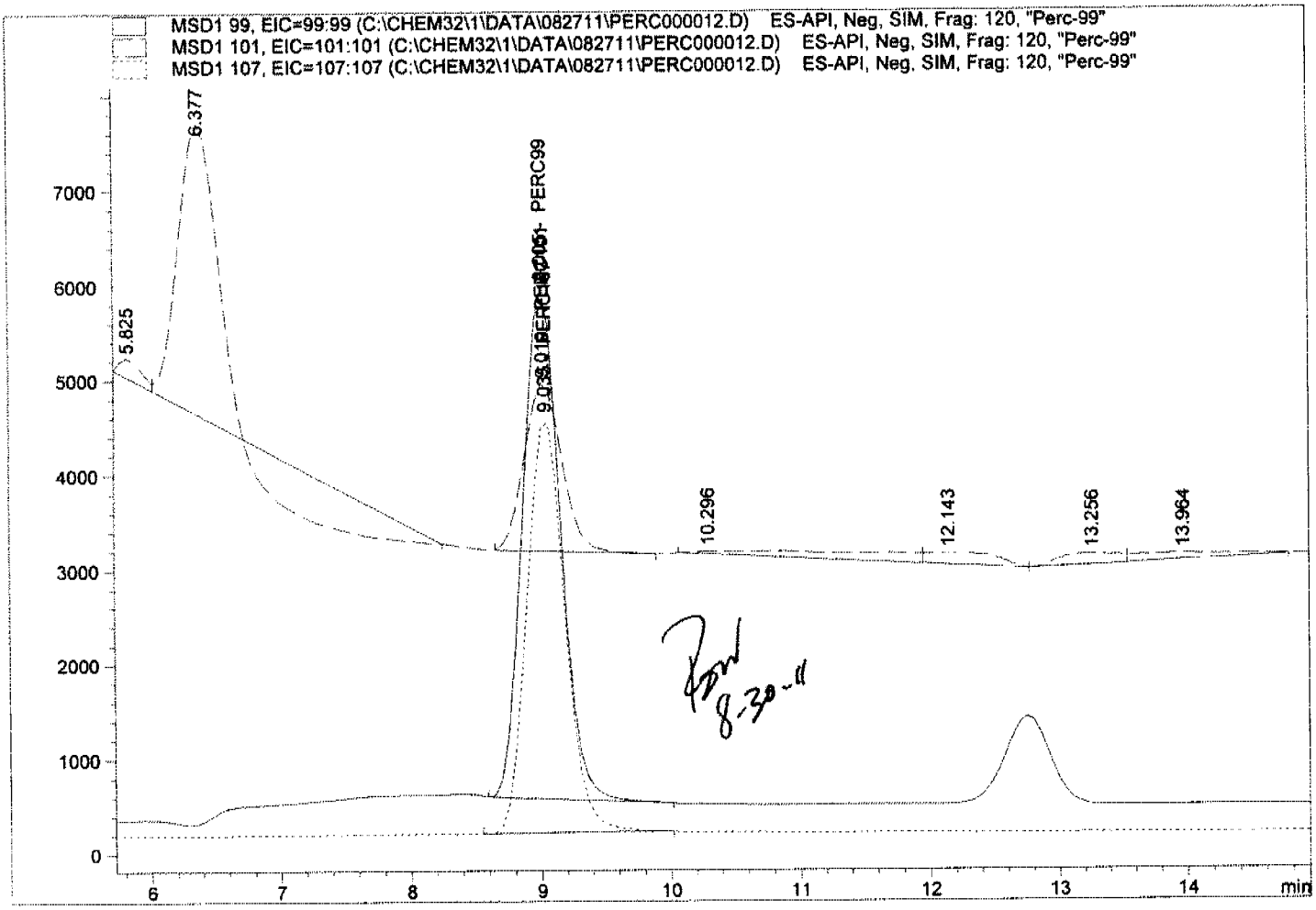
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

```
==========================================================================
Acq. Operator    : RDW                                  Seq. Line :  12
Acq. Instrument  : Instrument 1                          Location : Vial 79
Injection Date   : 8/27/2011 4:57:17 PM                      Inj :   1
                                                      Inj Volume : 100 µl

Acq. Method      : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed     : 8/22/2011 11:48:31 AM by RDW
Analysis Method  : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed     : 8/30/2011 11:18:18 AM by RDW
==========================================================================
```




```
==========================================================================
                      Internal Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      8/30/2011 11:18:25 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
  #      [ug/L]
----|-------------|-------------------------
  1      5.00000   PERC107
```

Data File C:\CHEM32\1\DATA\082711\PERC000012.D
Sample Name: SEQ-ICV1

Acq. Operator : RDW
Acq. Instrument : Instrument 1
Injection Date : 8/27/2011 4:57:17 PM
Seq. Line : 12
Location : Vial 79
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_082711ICAL.M
Last changed : 8/30/2011 11:18:18 AM by RDW

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.005	VBA	1	1.08549e5	7.98255e-1	4.86590		PERC99

Totals without ISTD(s) : 4.86590

97.3% PD

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.019	BV	1	3.53562e4	2.49243	4.94863		PERC101

Totals without ISTD(s) : 4.94863

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
9.035	BBA I	1	8.90373e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Sequence Table:

Quantification Part:

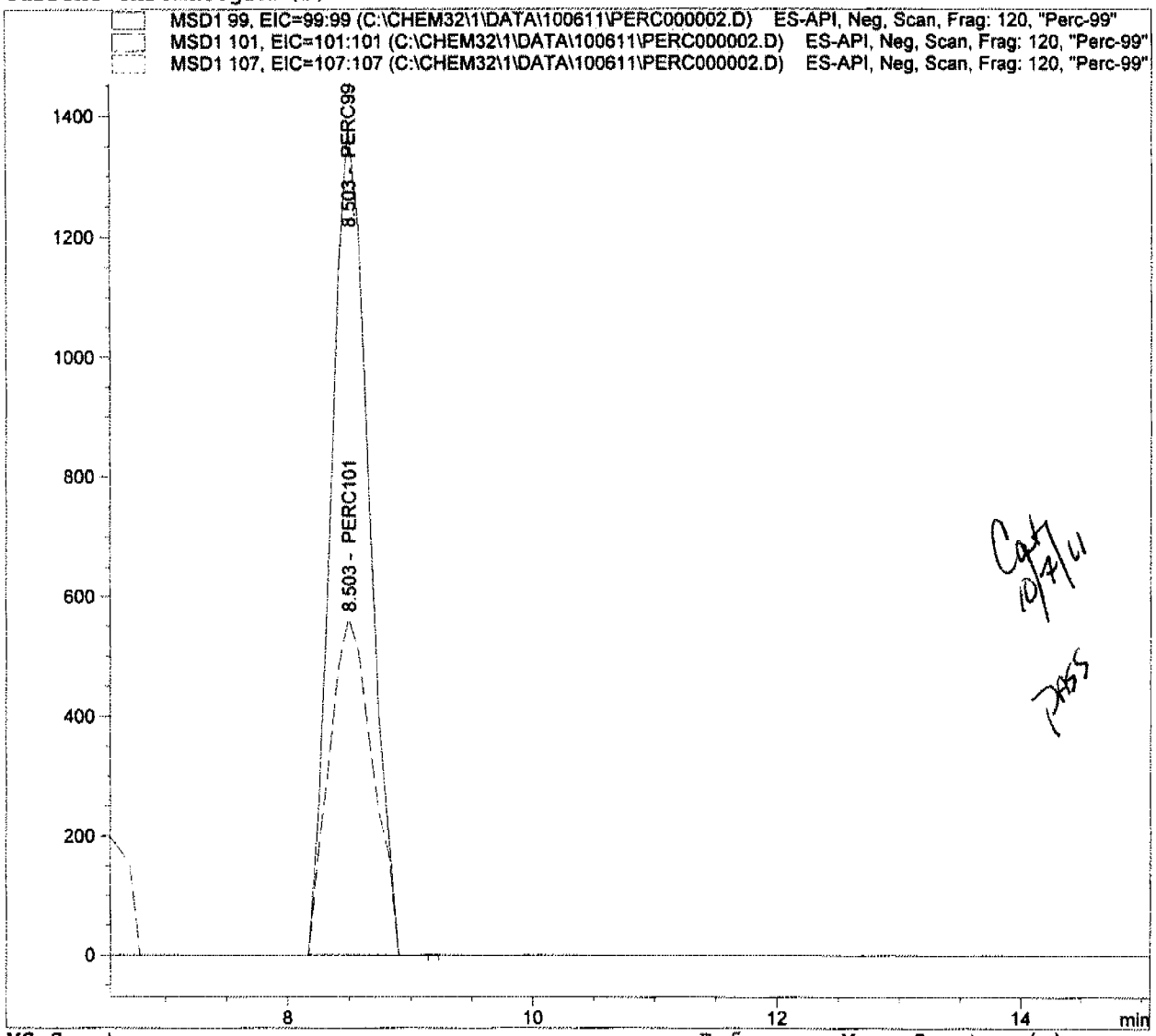
Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 2	Reagent Blank				
2	Vial 1	TUNE				
3	Vial 2	Reagent Blank				
4	Vial 3	SEQ-CCV1				
5	Vial 4	SEQ-LCV1				
6	Vial 5	ICS				
7	Vial 2	Reagent Blank				
8	Vial 2	Reagent Blank				
9	Vial 7	1J05014-BLK1				
10	Vial 8	1J05014-BS1				
11	Vial 9	1109223-01				
12	Vial 10	1J05014-MS1				
13	Vial 11	1J05014-MSD1				
14	Vial 12	1109223-02				
15	Vial 13	1109223-03				
16	Vial 14	1109223-04				
17	Vial 15	1109223-05				
18	Vial 16	1109223-06				
19	Vial 2	Reagent Blank				
20	Vial 3	SEQ-CCV2				
21	Vial 4	SEQ-LCV2				
22	Vial 17	1109224-01				
23	Vial 18	1109224-02				
24	Vial 19	1109224-03				
25	Vial 20	1109224-04				
26	Vial 21	1109244-01@20				
27	Vial 22	1109246-01@20				
28	Vial 2	Reagent Blank				
29	Vial 3	SEQ-CCV3				
30	Vial 4	SEQ-LCV3				
31	Vial 23	1J05023-BLK1				
32	Vial 24	1J05023-BS1				
33	Vial 25	1109176-02@20				
34	Vial 26	1J05023-MS1@20				
35	Vial 27	1J05023-MSD1@20				
36	Vial 28	1109176-03				
37	Vial 29	1109193-02				
38	Vial 30	1109193-03				
39	Vial 31	1109193-04 - OLR 2x				
40	Vial 32	1109193-05@5 - OLR 100x				
41	Vial 33	1109193-06 - OLR 1mL + 50x				
42	Vial 34	1109193-07 - OLR 50x				
43	Vial 35	1109193-08 - OLR 200x				
44	Vial 36	1109193-09 - OLR 5000x				
45	Vial 2	Reagent Blank				
46	Vial 3	SEQ-CCV4				
47	Vial 4	SEQ-LCV4				
48	Vial 37	1109193-10				
49	Vial 38	1109193-11				
50	Vial 39	1109194-01@5				
51	Vial 40	1109194-02@5				

Pg 433
Cat
10/7/11

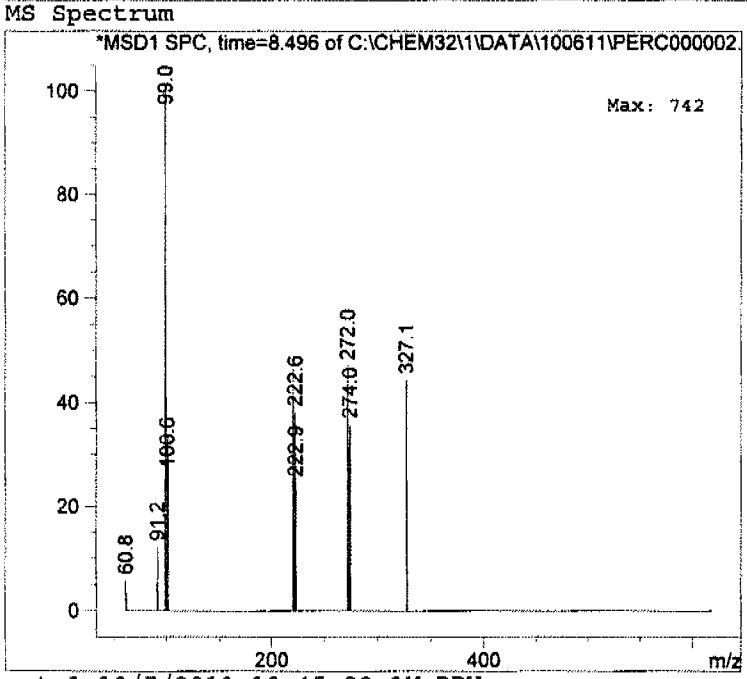
Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
52	Vial 41	1109194-03@5				
53	Vial 42	1110002-01				
54	Vial 43	1110004-01@500				
55	Vial 44	1110004-02@500				
56	Vial 45	1110010-01				
57	Vial 46	1110010-02				
58	Vial 2	Reagent Blank				
59	Vial 3	SEQ-CCV5				
60	Vial 4	SEQ-LCV5				

Print of all graphic windows

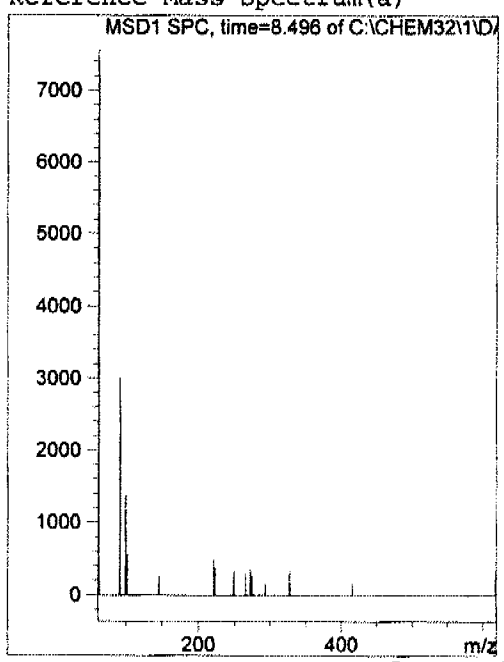
Current Chromatogram(s)



MS Spectrum



Reference Mass Spectrum(a)

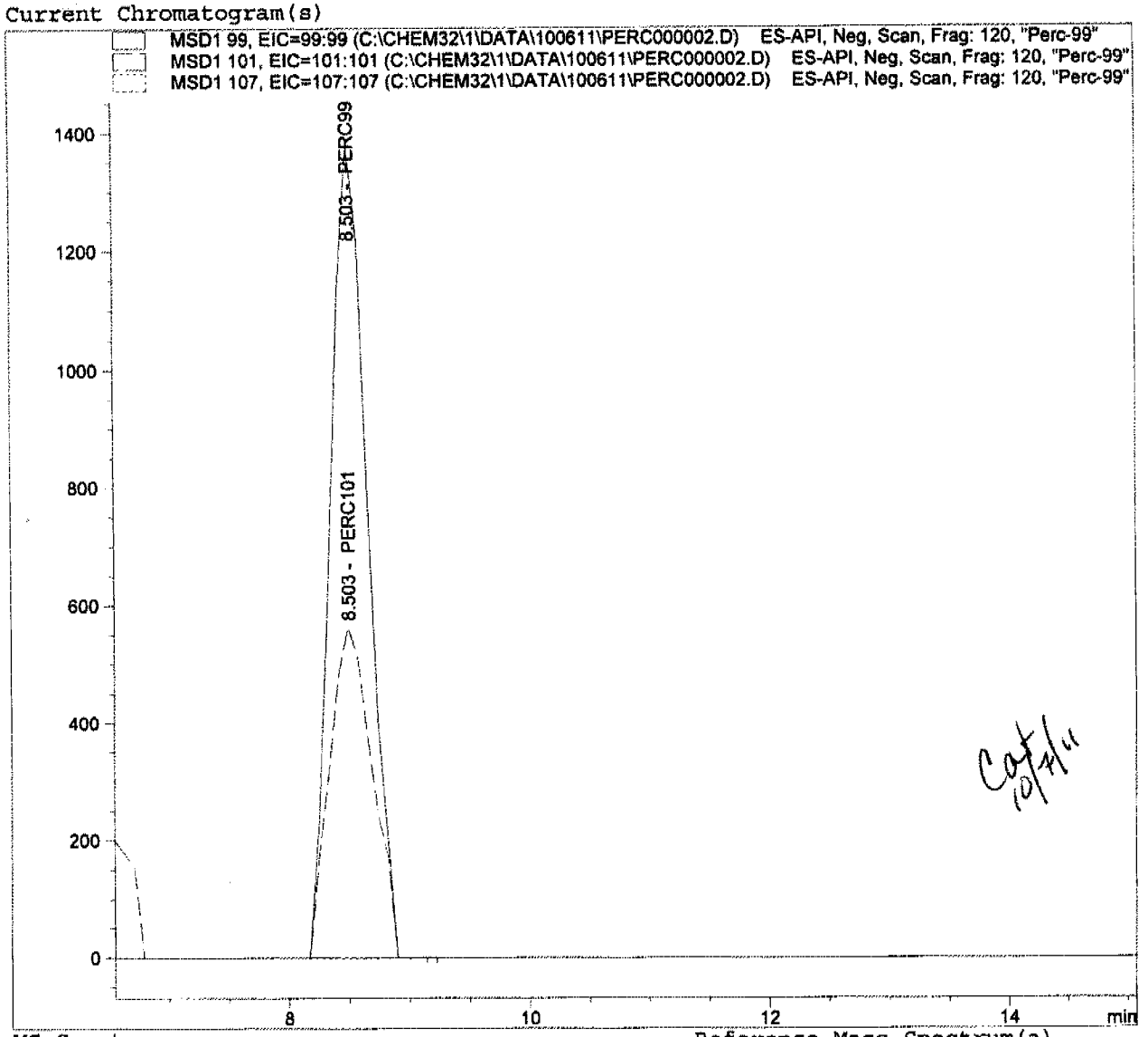


Instrument 1 10/7/2011 10:45:28 AM RDW

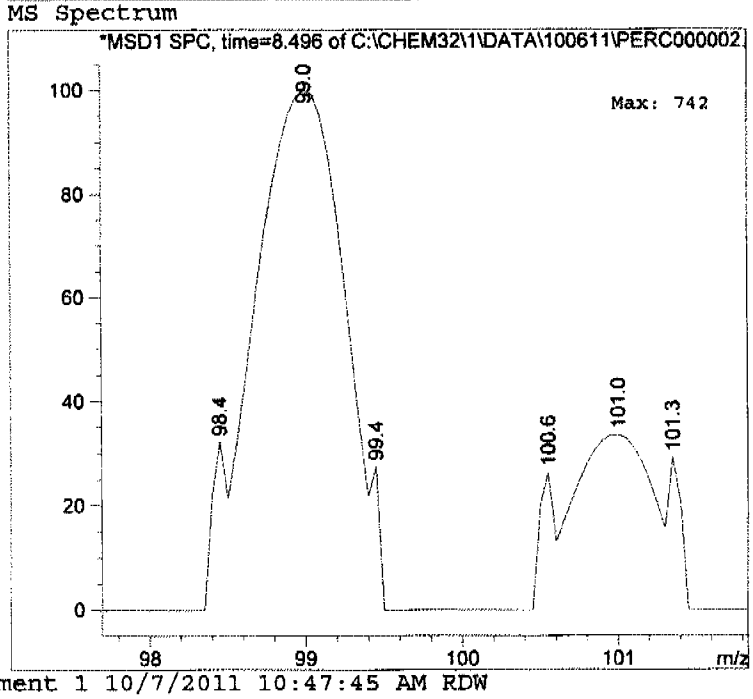
1110004

Print of all graphic windows

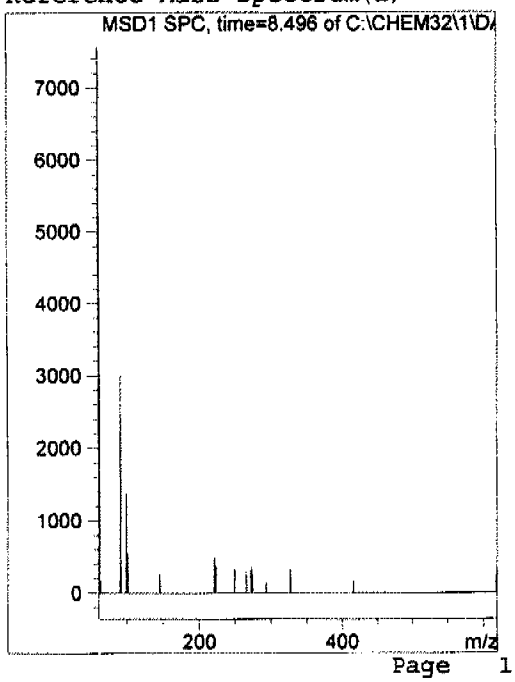
Current Chromatogram(s)



MS Spectrum



Reference Mass Spectrum(a)

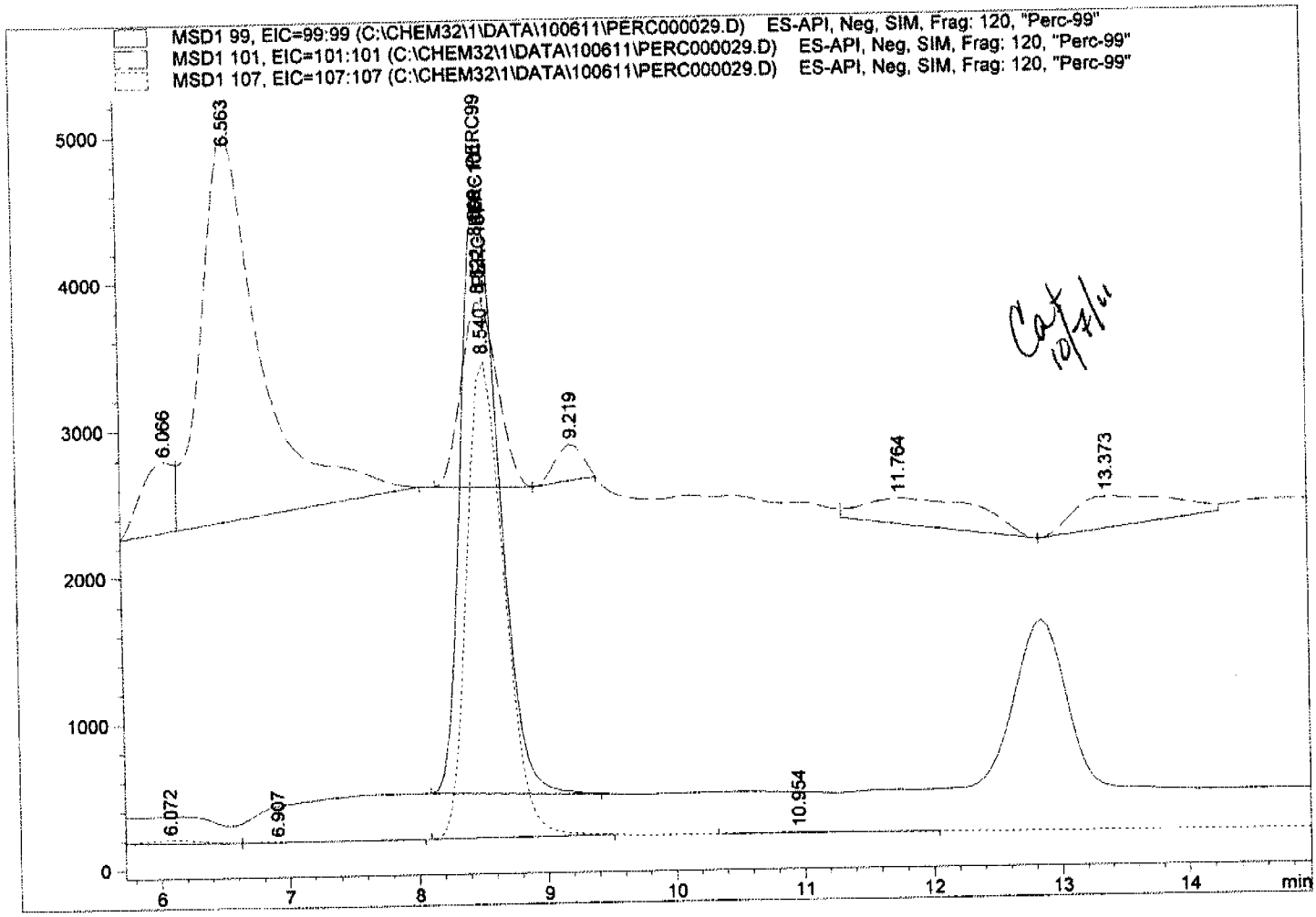


Instrument 1 10/7/2011 10:47:45 AM RDW

1110004

Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

Acq. Operator	: CAT	Seq. Line	: 29
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/6/2011 11:11:31 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000029.D
Sample Name: SEQ-CCV3

Acq. Operator	: CAT	Seq. Line	: 29
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/6/2011 11:11:31 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BBA	1	8.26208e4	7.99061e-1	5.02390		PERC99

Totals without ISTD(s) : 5.02390

100%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.522	BV	1	2.42131e4	2.49152	4.59076		PERC101

Totals without ISTD(s) : 4.59076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.540	BBA I	1	6.57050e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

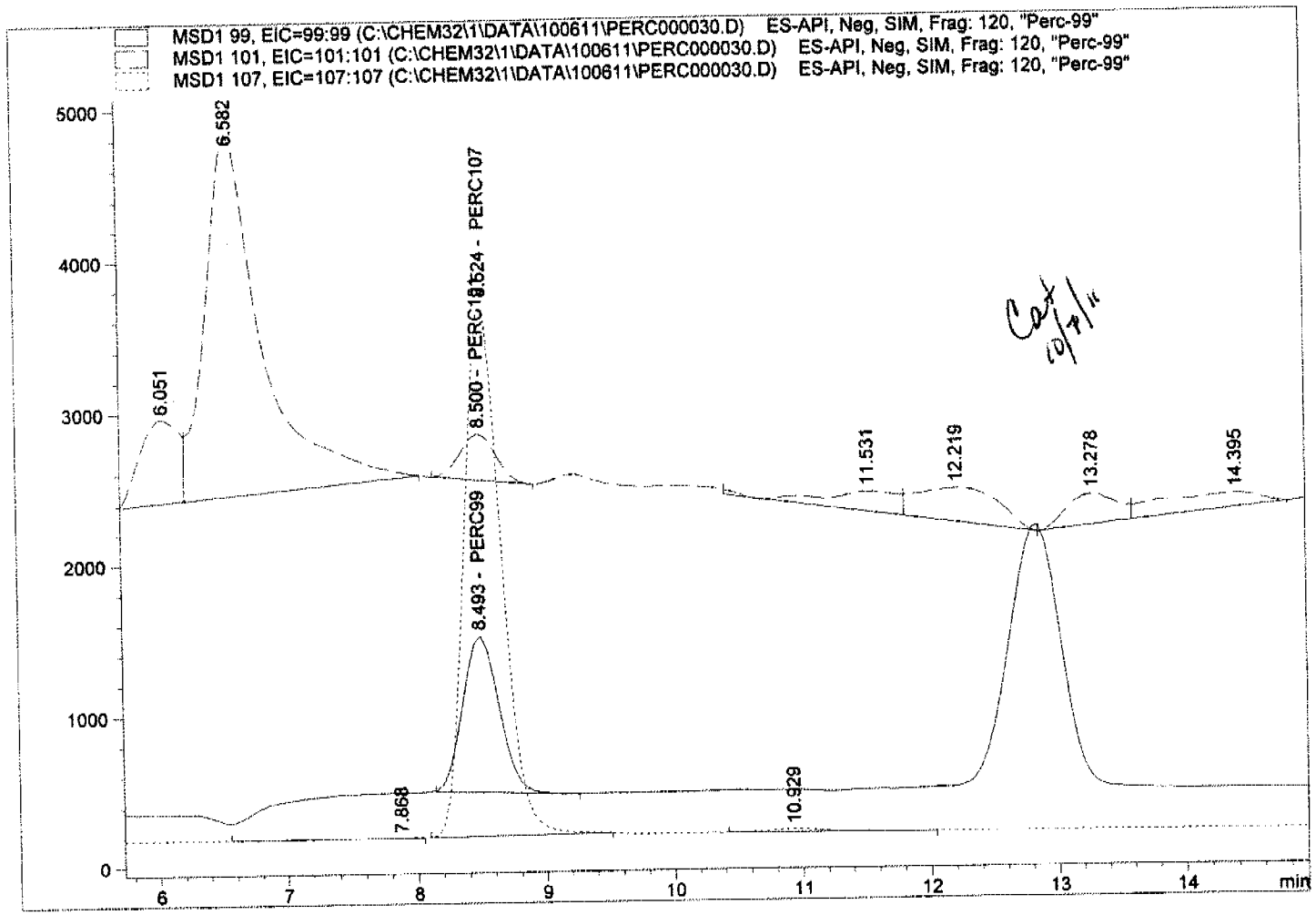
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator	: CAT	Seq. Line	: 30
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/6/2011 11:30:30 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 10/6/2011 3:46:34 PM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000030.D
Sample Name: SEQ-LCV3

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/6/2011 11:30:30 PM
Seq. Line : 30
Location : Vial 4
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.493	BB	1	2.02101e4	7.12747e-1	1.02696		PERC99

Totals without ISTD(s) : 1.02696

103%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BV	1	5799.44482	2.44780	1.01208		PERC101

Totals without ISTD(s) : 1.01208

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.524	BBA	I 1	7.01325e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

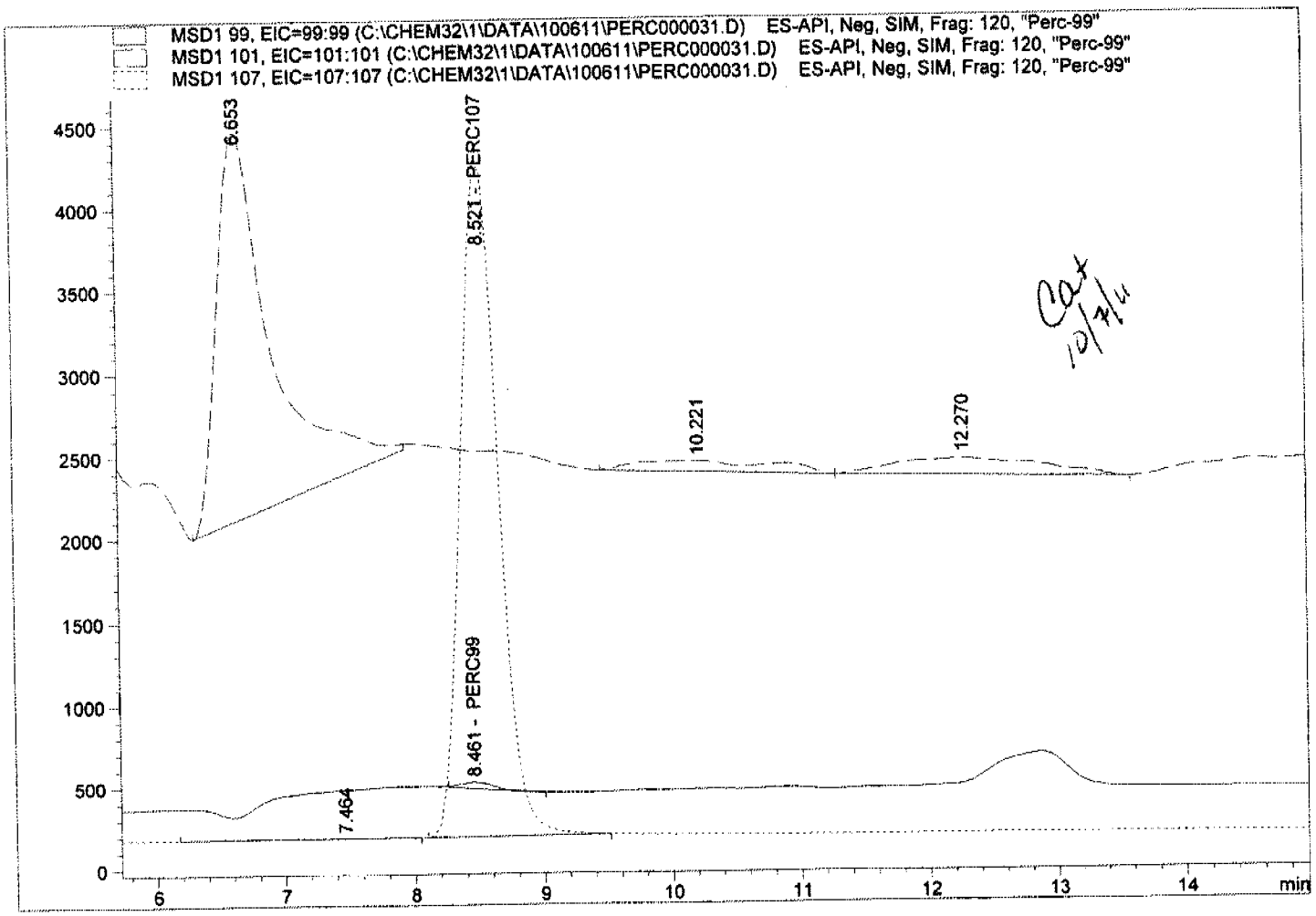
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

Acq. Operator	: CAT	Seq. Line	: 31
Acq. Instrument	: Instrument 1	Location	: Vial 23
Injection Date	: 10/6/2011 11:49:05 PM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000031.D
Sample Name: 1J05023-BLK1

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/6/2011 11:49:05 PM
Seq. Line : 31
Location : Vial 23
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.461	BB	1	602.55627	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

RD

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.521	BBA I	1	8.19626e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

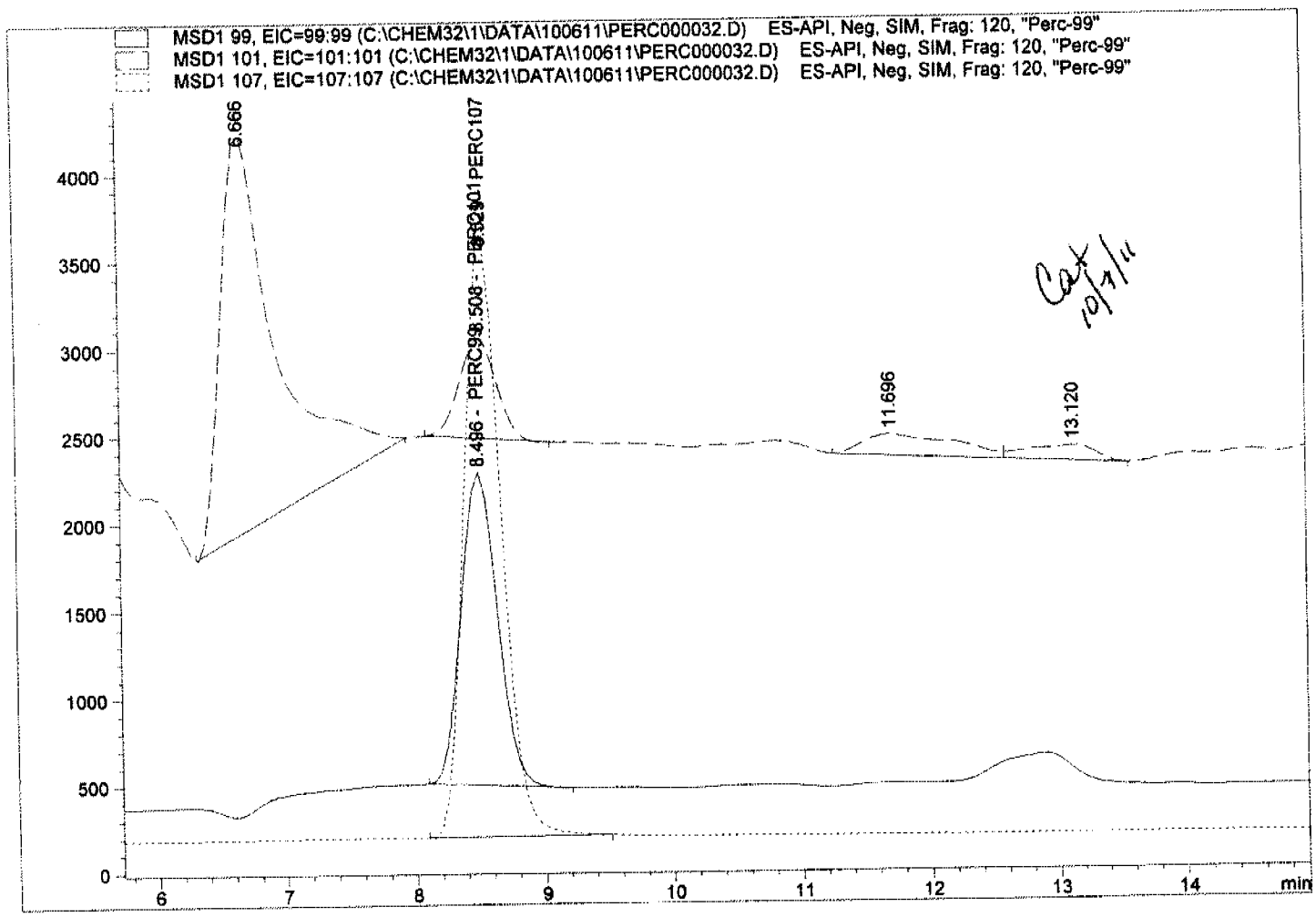
4 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

Acq. Operator : CAT	Seq. Line : 32
Acq. Instrument : Instrument 1	Location : Vial 24
Injection Date : 10/7/2011 12:08:00 AM	Inj : 1
	Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M	
Last changed : 8/22/2011 11:48:31 AM by RDW	
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M	
Last changed : 10/7/2011 9:38:25 AM by RDW (modified after loading)	



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000032.D
Sample Name: 1J05023-BS1

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 12:08:00 AM

Seq. Line : 32
Location : Vial 24
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.496	BB	1	3.49790e4	7.61378e-1	1.93925		PERC99

Totals without ISTD(s) : 1.93925

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BB	1	1.13197e4	2.47589	2.04076		PERC101

Totals without ISTD(s) : 2.04076

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.529	BBA I	1	6.86662e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

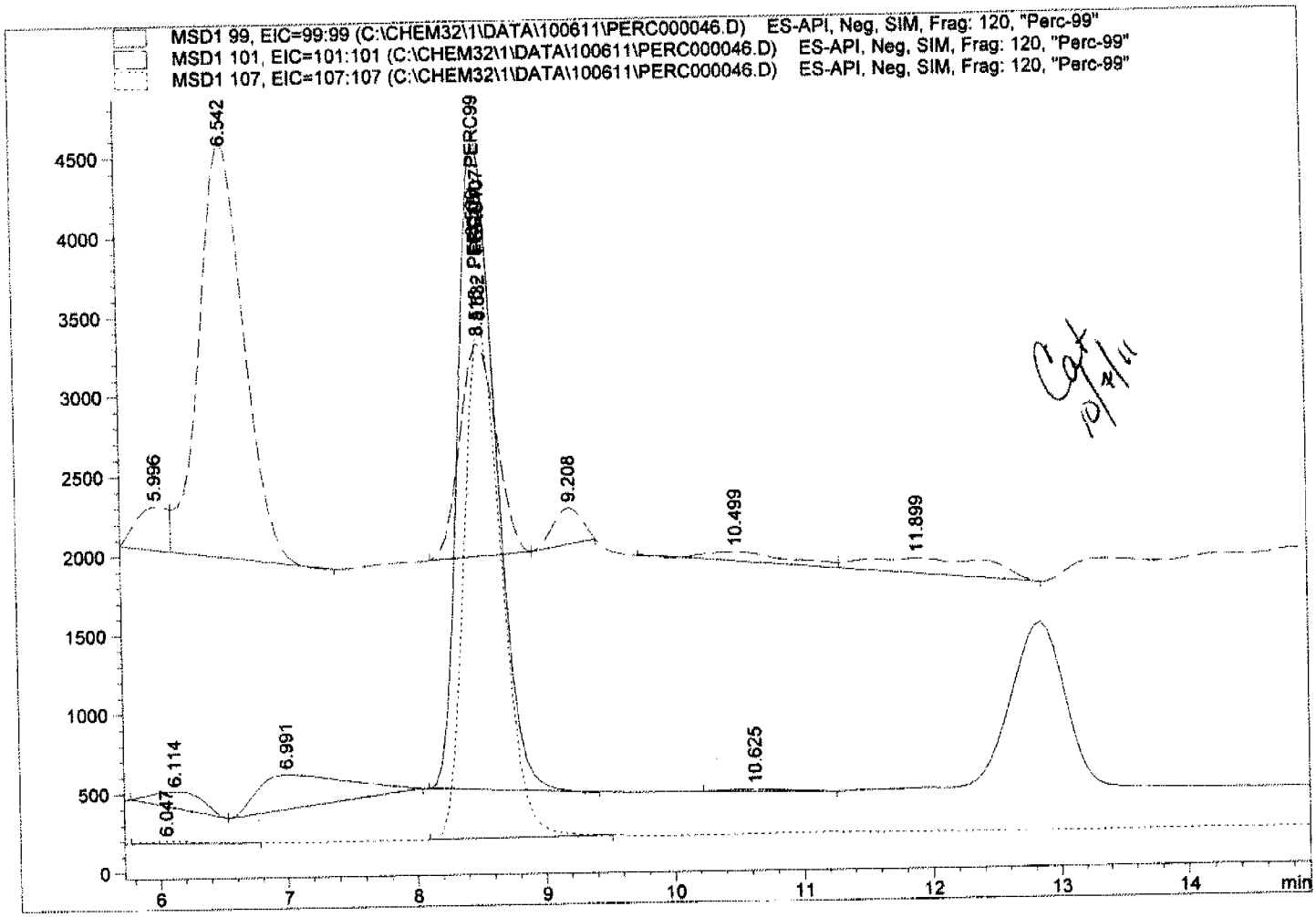
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

Acq. Operator	: CAT	Seq. Line	: 46
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/7/2011 4:30:47 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000046.D
Sample Name: SEQ-CCV4

Acq. Operator	: CAT	Seq. Line	: 46
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/7/2011 4:30:47 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BBA	1	8.21624e4	7.99302e-1	5.07300		PERC99

Totals without ISTD(s) : 5.07300

10990

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.515	BV	1	2.60930e4	2.49260	5.02409		PERC101

Totals without ISTD(s) : 5.02409

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.47275e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

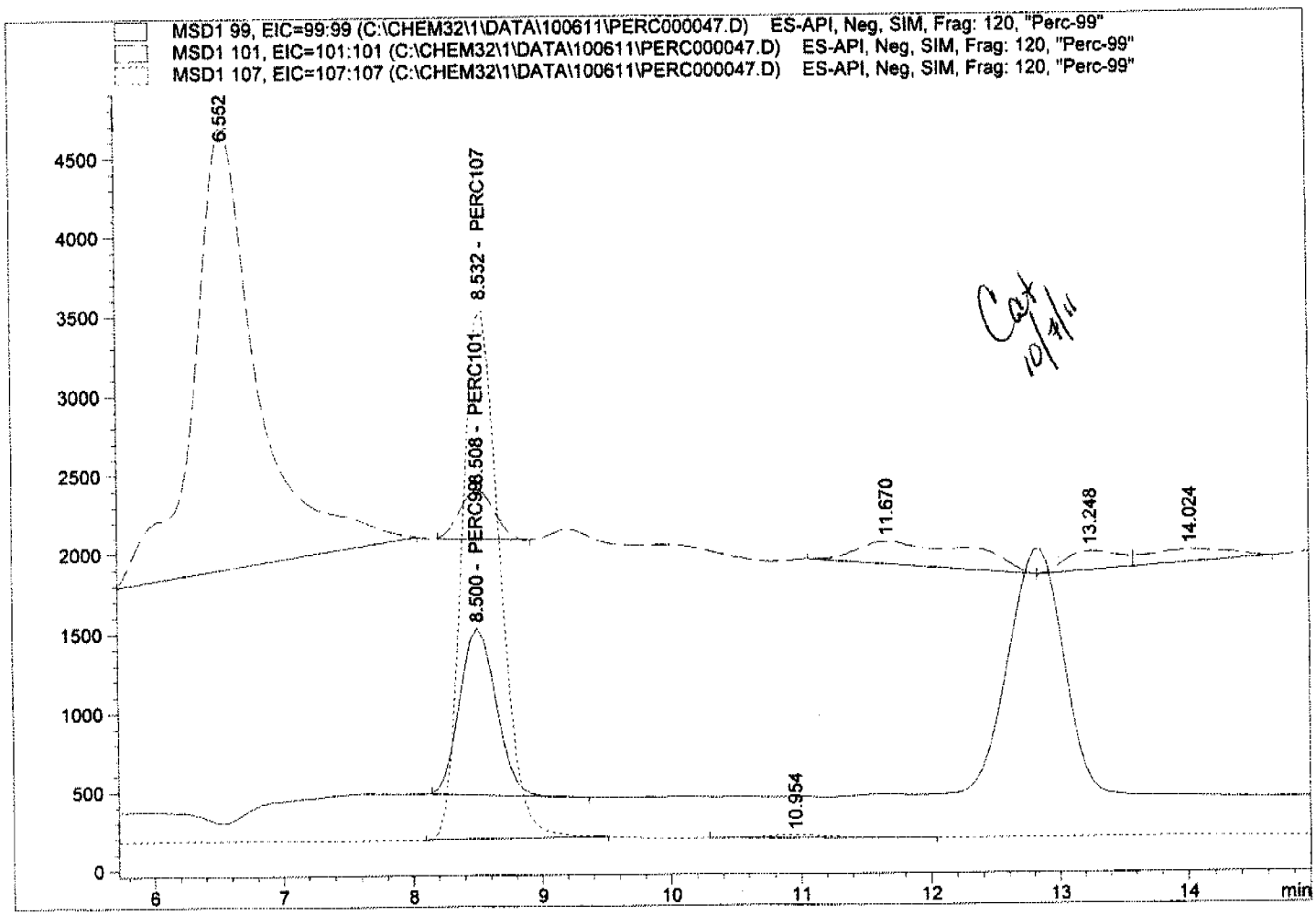
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

Acq. Operator	: CAT	Seq. Line	: 47
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/7/2011 4:49:33 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 10/6/2011 3:46:34 PM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000047.D
Sample Name: SEQ-LCV4

Acq. Operator	: CAT	Seq. Line	: 47
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/7/2011 4:49:33 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.500	BB	1	2.07056e4	7.19491e-1	1.10312		PERC99

Totals without ISTD(s) : 1.10312

1110 90

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.508	BV	1	5891.10547	2.45074	1.06906		PERC101

Totals without ISTD(s) : 1.06906

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.532	BBA I	1	6.75246e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

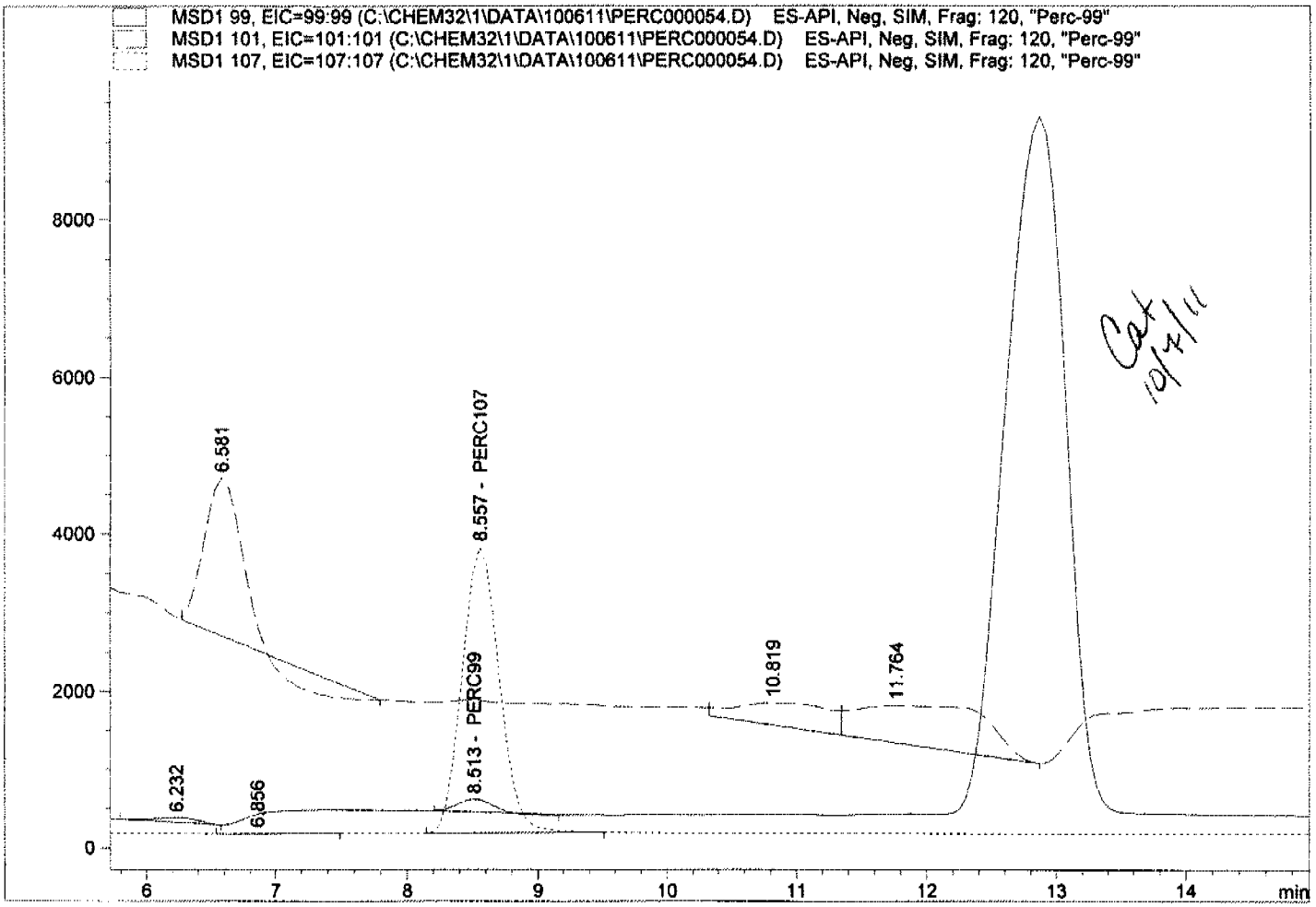
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

Acq. Operator	: CAT	Seq. Line	: 54
Acq. Instrument	: Instrument 1	Location	: Vial 43
Injection Date	: 10/7/2011 7:01:00 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000054.D
Sample Name: 1110004-01@500

Acq. Operator : CAT
Seq. Line : 54
Acq. Instrument : Instrument 1
Location : Vial 43
Injection Date : 10/7/2011 7:01:00 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.513	BB	1	2916.82471	2.88025e-2	5.83854e-3		PERC99

Totals without ISTD(s) : 5.83854e-3

ND
No confirmation

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.19460e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

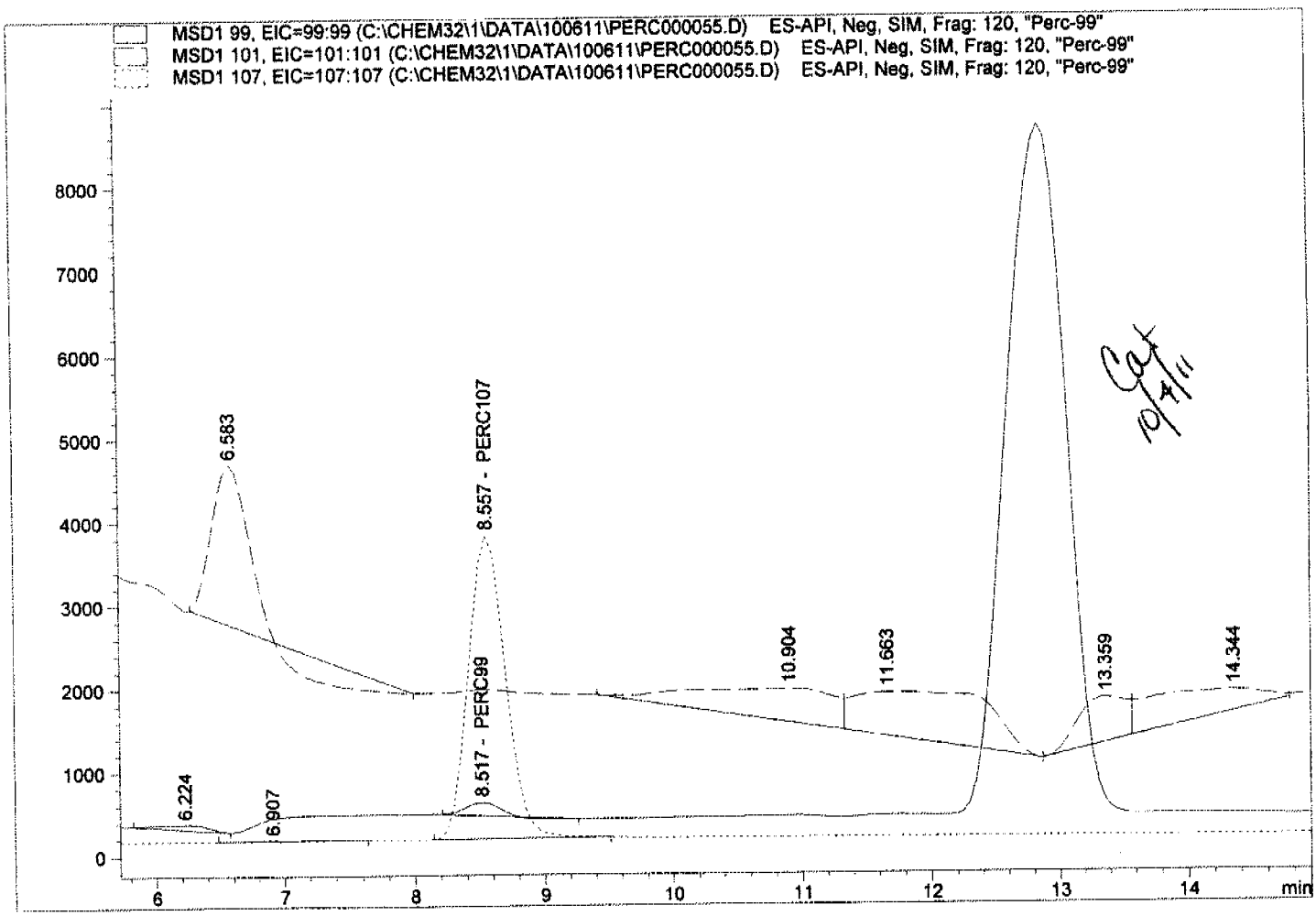
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

Acq. Operator	: CAT	Seq. Line	: 55
Acq. Instrument	: Instrument 1	Location	: Vial 44
Injection Date	: 10/7/2011 7:19:54 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 10/6/2011 3:46:34 PM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000055.D
Sample Name: 1110004-02@500

Acq. Operator : CAT
Seq. Line : 55
Acq. Instrument : Instrument 1
Location : Vial 44
Injection Date : 10/7/2011 7:19:54 AM
Inj : 1
Inj Volume : 100 µl
Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.517	BB	1	2730.33813	0.00000	0.00000		PERC99

Totals without ISTD(s) : 0.00000

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.550		1	-	-	-		PERC101

Totals without ISTD(s) : 0.00000

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.557	BBA I	1	7.17396e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

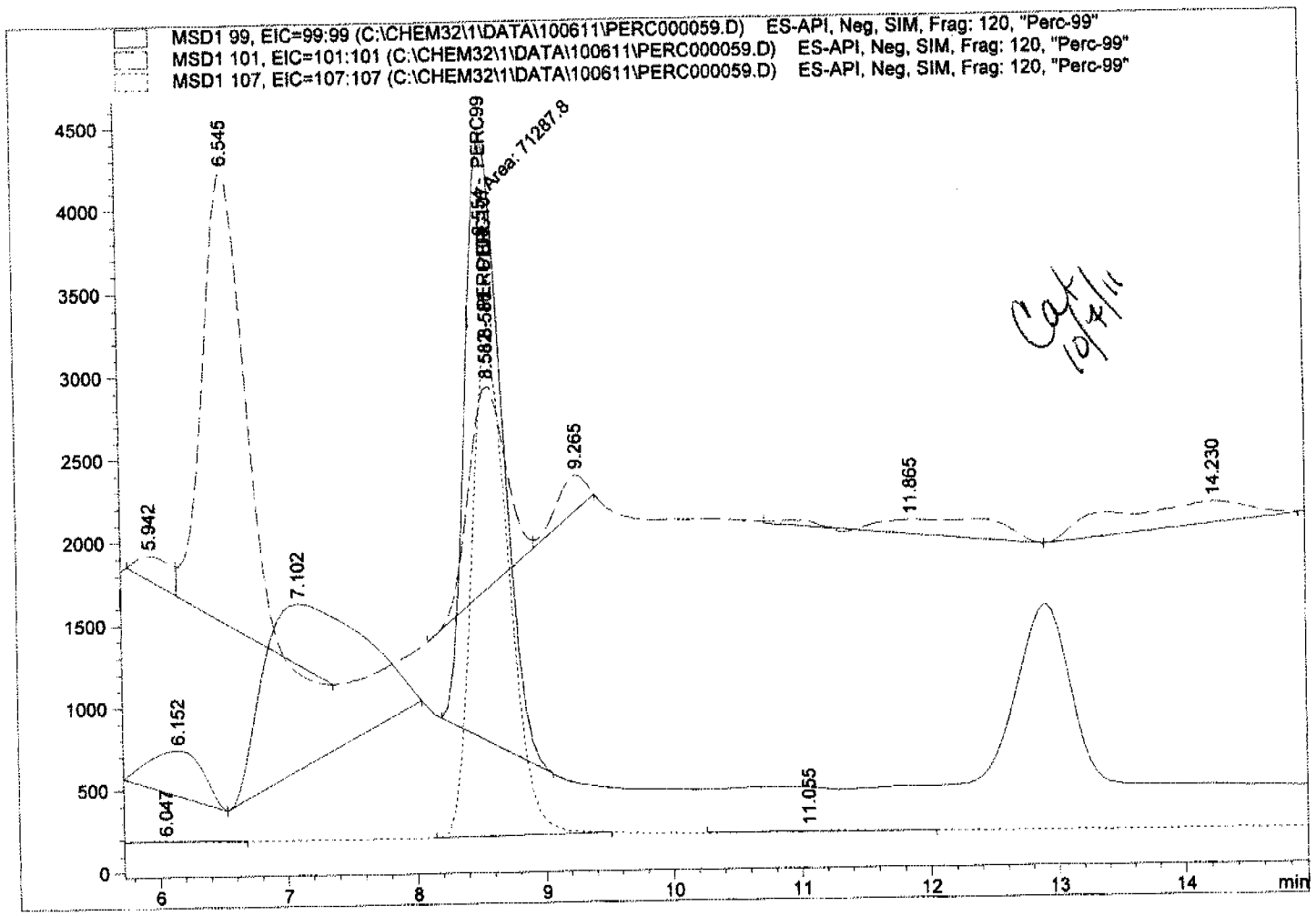
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (PERC99)

*** End of Report ***

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator	: CAT	Seq. Line	: 59
Acq. Instrument	: Instrument 1	Location	: Vial 3
Injection Date	: 10/7/2011 8:34:59 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 10/6/2011 3:46:34 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000059.D
Sample Name: SEQ-CCV5

Acq. Operator : CAT
Acq. Instrument : Instrument 1
Injection Date : 10/7/2011 8:34:59 AM
Seq. Line : 59
Location : Vial 3
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.554	MM	1	7.12878e4	7.97592e-1	4.74319		PERC99

Totals without ISTD(s) : 4.74319

94.9%

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.582	BV	1	2.41670e4	2.49260	5.02516		PERC101

Totals without ISTD(s) : 5.02516

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.588	BBA I	1	5.99371e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

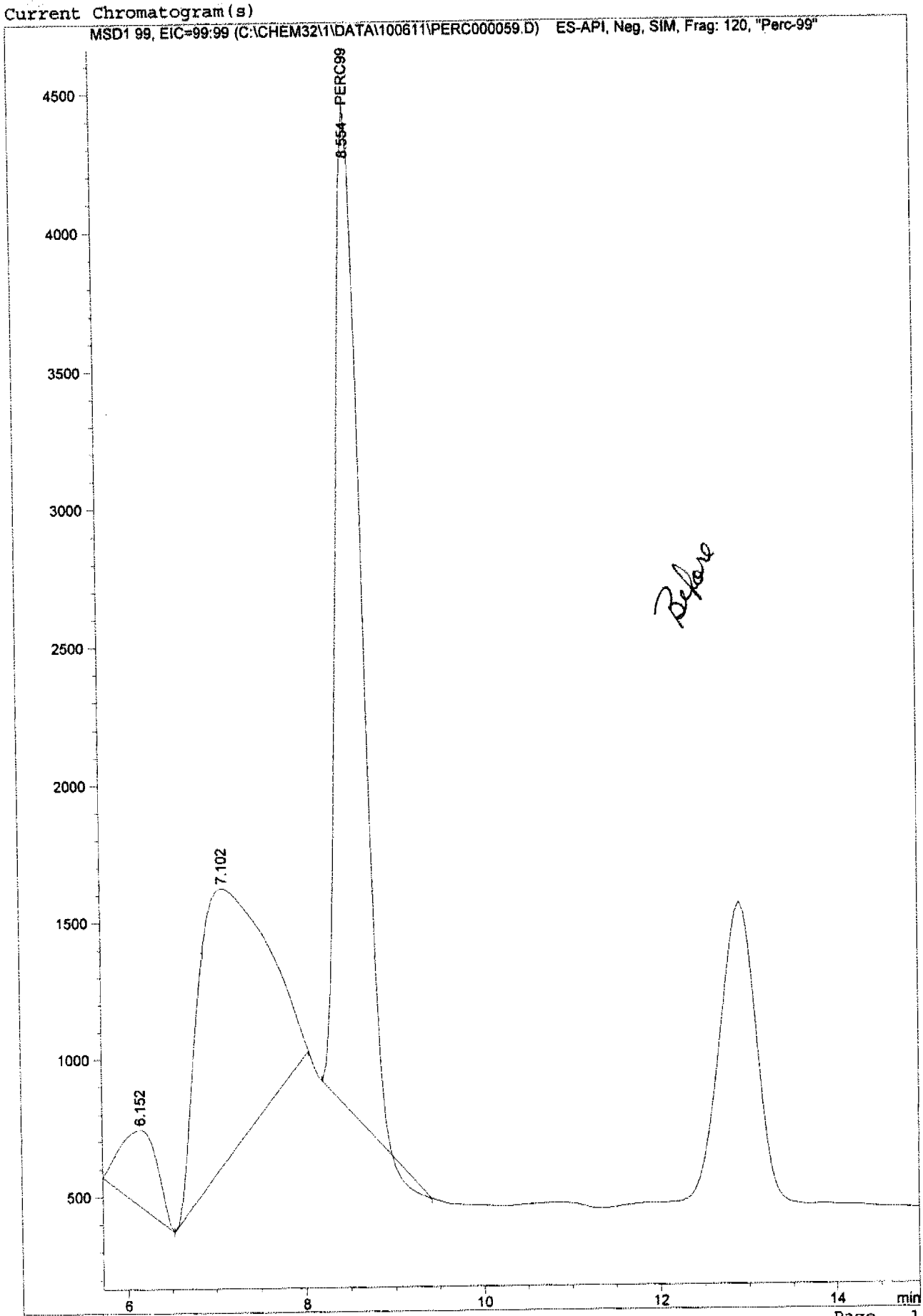
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



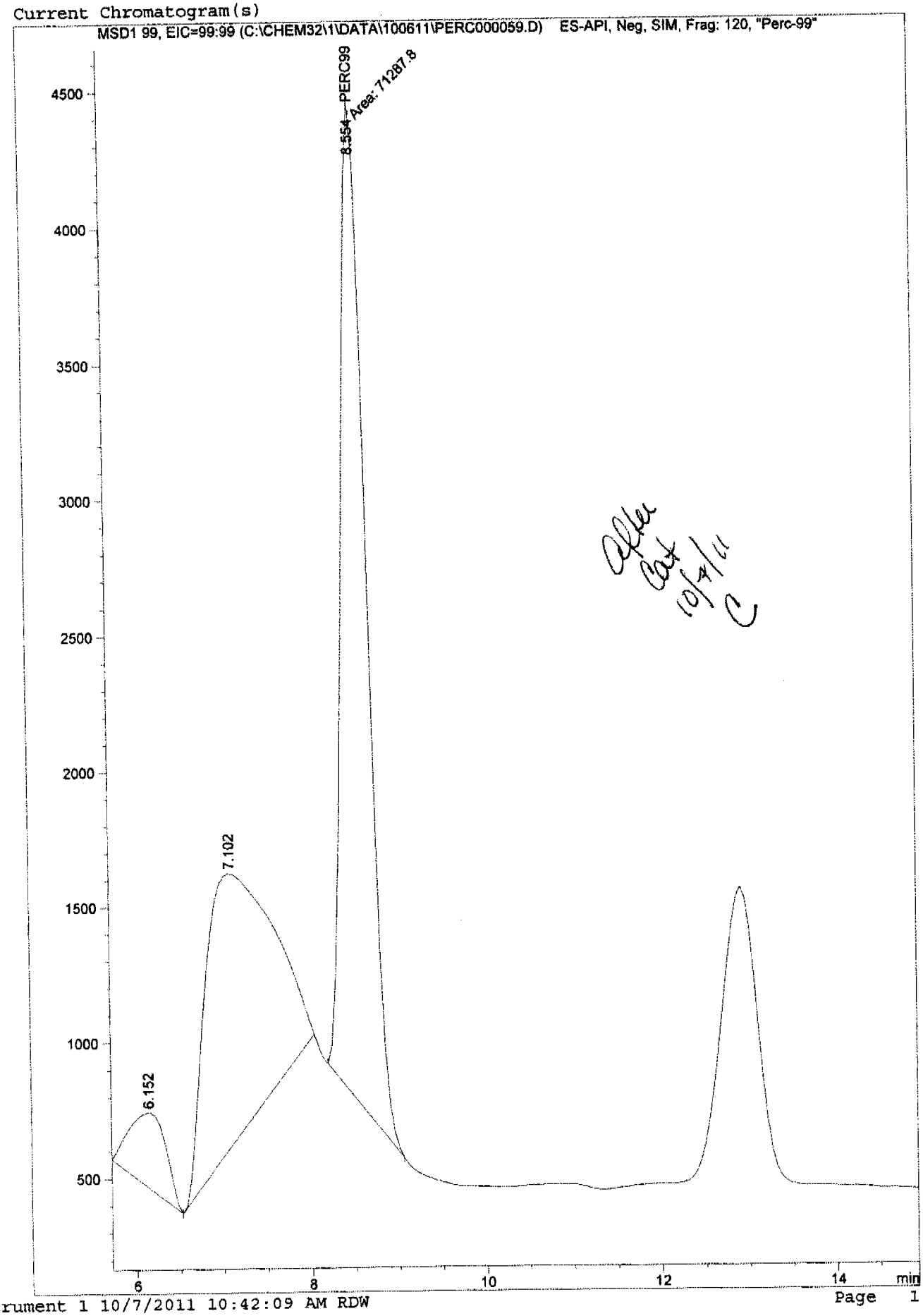
Instrument 1 10/7/2011 10:41:51 AM RDW

Page 1 of 1

1110004

Print of window 38: Current Chromatogram(s)

Current Chromatogram(s)



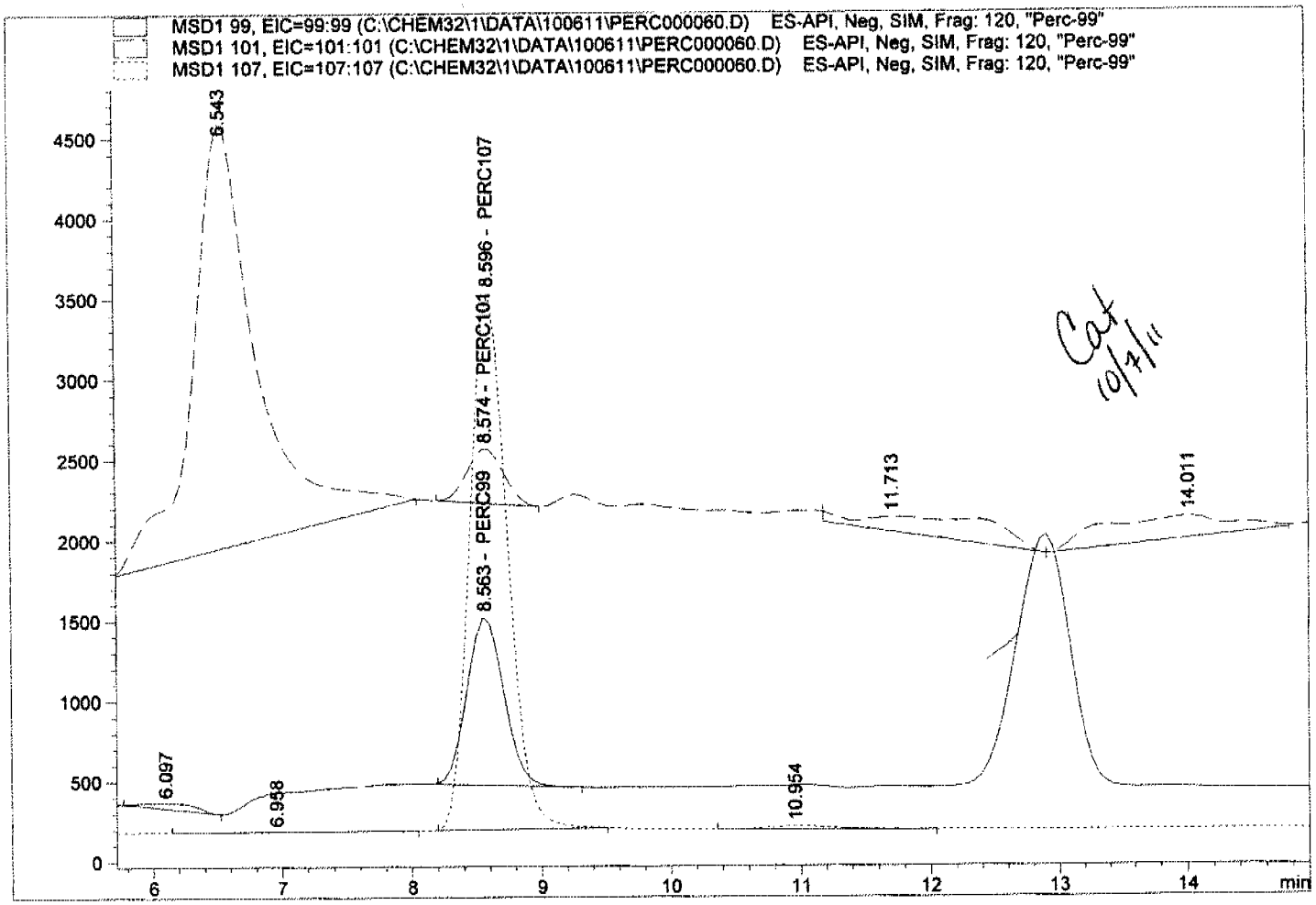
Instrument 1 10/7/2011 10:42:09 AM RDW

Page 1 of 1

1110004

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

Acq. Operator	: CAT	Seq. Line	: 60
Acq. Instrument	: Instrument 1	Location	: Vial 4
Injection Date	: 10/7/2011 8:53:36 AM	Inj	: 1
		Inj Volume	: 100 µl
Acq. Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M		
Last changed	: 8/22/2011 11:48:31 AM by RDW		
Analysis Method	: C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M		
Last changed	: 10/7/2011 9:38:25 AM by RDW (modified after loading)		



Internal Standard Report

Sorted By	: Signal
Calib. Data Modified	: 10/6/2011 3:46:34 PM
Multiplier:	: 1.0000
Dilution:	: 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Sample ISTD Information:

ISTD #	ISTD Amount [ug/L]	Name
1	5.00000	PERC107

Data File C:\CHEM32\1\DATA\100611\PERC000060.D
Sample Name: SEQ-LCV5

Acq. Operator : CAT
Seq. Line : 60
Acq. Instrument : Instrument 1
Location : Vial 4
Injection Date : 10/7/2011 8:53:36 AM
Inj : 1
Inj Volume : 100 µl

Acq. Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS.M
Last changed : 8/22/2011 11:48:31 AM by RDW
Analysis Method : C:\CHEM32\1\METHODS\PERCHLORATE_LCMS_100611.M
Last changed : 10/7/2011 9:38:25 AM by RDW
(modified after loading)

Signal 1: MSD1 99, EIC=99:99

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.563	BB	1	2.06219e4	7.20448e-1	1.11472		PERC99

Totals without ISTD(s) : 1.11472

11/8/10

Signal 2: MSD1 101, EIC=101:101

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.574	BV	1	6635.93799	2.45736	1.22350		PERC101

Totals without ISTD(s) : 1.22350

Signal 3: MSD1 107, EIC=107:107

RetTime [min]	Type	ISTD used	Area	Amt/Area ratio	Amount [ug/L]	Grp	Name
8.596	BBA	I 1	6.66402e4	1.00000	5.00000		PERC107

Totals without ISTD(s) : 0.00000

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water

Prepared using: GCLC - LCMS_PREP6850_W

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109176-02	-	LCMS_PERC_6850	10/05/2011	0.5	10					NA	
1109176-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-02	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-03	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-04	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-05	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109193-06	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-07	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-08	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-09	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-10	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109193-11	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1109194-01	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1109194-03	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1110002-01	-	LCMS_PERC_6850	10/05/2011	10	10					NA	
1110004-01	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	
1110004-02	-	LCMS_PERC_6850	10/05/2011	0.02	10					NA	FIELD FILTERED
1110010-01	-	LCMS_PERC_6850	10/05/2011	0.025	10					NA	
1110010-02	-	LCMS_PERC_6850	10/05/2011	2	10					NA	
1J05023-BLK1		QC	10/05/2011	10	10					NA	
1J05023-BS1		QC	10/05/2011	10	10	11I0443		200		NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

1J05023

Empirical Laboratories, LLC

Instrument:

Printed: 10/11/2011 11:29:06AM

Matrix: Water **Prepared using: GCLC - LCMS_PREP6850_W** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J05023-MS1		QC	10/05/2011	10	10	1110443	1109176-02	200		NA	
1J05023-MSD1		QC	10/05/2011	10	10	1110443	1109176-02	200		NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

ANALYTICAL SUMMARY DATA PACKAGE
SDG # 1110004

PROJECT NAME: F86441

SUBMITTAL TO:
Muna Mohammed
Accutest Laboratories
4405 Vineland Road
Orlando, FL 32811

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Sonya Gordon
Tel (615)345-1115
Fax (866)417-0548
Email: sgordon@empirlabs.com

Original Report Date: October 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 32

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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5	Data for SW6850 Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	13

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW6850:
No anomalies or deviations are noted.

Data Qualifiers

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix.

EQL: The estimated quantitation limit (EQL), also known as Reporting Limit **(RL),** is defined as the estimated concentration above which quantitative results can be obtained with a specific degree of confidence. Empirical Laboratories defines the EQL to be at or near the lowest standard of the calibration curve.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the MDL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified

concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE**" implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

9

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 425-6700 Fax#: (407) 425-0707

Project Information

Project Name: F86441
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

SLCMS6850PRCHLT (6850 Perchlorate) X (Total) X (Dissolved)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH			LAB USE ONLY
1X	1110004-01 MA02 MW001D	09/28/11	10:28		GW	1		X								X		
1XF	1110004-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X	X	

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
10/13/11

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - Empirical
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hall ALSE	9/30/11 1700	2 FED EX	3 FED EX	10.1.11 9:30	4 Reynold Talley
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____Cooler Temperature (s) Celsius:_____

1110004 Summ Package

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6* = 4.5

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ET

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ET

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ET

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ET

I certify that I attached a label with the unique LIMS number to each container (intial) ET

21. Were there Non-Conformance Issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1110004

Printed: 10/10/2011 5:10:28PM

11

Empirical Laboratories, LLC

Client: Accutest Laboratories
Project: Accutest

Project Manager: Sonya Gordon
Project Number: Accutest

Report To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone: (407) 425-6700
Fax: (407) 425-0707

Invoice To:
Accutest Laboratories
Muna Mohammed
4405 Vineland Rd.
Orlando, FL 32811
Phone :(407) 425-6700
Fax: (407) 425-0707

Date Due: 10/13/2011 16:00 (8 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 12:17

Samples Received at: 4.5°C
Custody Seals Yes Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Version	Comments
1110004-01 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		
1110004-02 MA02 MW001D [Water] Sampled 09/28/2011 10:28 Eastern					**FIELD FILTERED**
SW6850	10/11/2011 14:00	7	10/26/2011 09:28		FIELD FILTERED

1110004 Summ Package

Sample Delivery Group Assignment Form

CLIENT: Accutest Laboratories
PROJECT NAME: Accutest
SDG #: 1110004
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/13/2011
Client Sample Count: 2

Sample Type	Sampled	Received	Lab ID	Client ID	SW6850
Client Sample	9/28/2011	10/1/2011	1110004-01	MA02 MW001D	X
Client Sample	9/28/2011	10/1/2011	1110004-02	MA02 MW001D	FIELD FILTERED

Data for SW6850 Forms

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC			SDG:	1110004
Client:	Accutest Laboratories			Project:	Accutest
Matrix:	Water	Laboratory ID:	1110004-01	File ID:	PERC000054.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:01
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

ANALYSIS DATA SHEET

MA02 MW001D

Laboratory:	Empirical Laboratories, LLC			SDG:	1110004
Client:	Accutest Laboratories			Project:	Accutest
Matrix:	Water	Laboratory ID:	1110004-02	File ID:	PERC000055.D\Report.TXT
Sampled:	09/28/11 10:28	Prepared:	10/05/11 13:40	Analyzed:	10/07/11 07:19
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	1
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		33.0	250	U

LCS / LCS DUPLICATE RECOVERY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Matrix:	Water		
Batch:	1J05023	Laboratory ID:	1J05023-BS1
Preparation:	LCMS_PREP6850_W	Initial/Final:	10 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Perchlorate	2.000	1.939	97.0	80 - 120

PREPARATION BATCH SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Batch: 1J05023 Batch Matrix: Water Preparation: LCMS_PREP6850_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
MA02 MW001D	1110004-01	10/05/11 13:40	0.02	10.00
MA02 MW001D	1110004-02	10/05/11 13:40	0.02	10.00
Blank	1J05023-BLK1	10/05/11 13:40	10.00	10.00
LCS	1J05023-BS1	10/05/11 13:40	10.00	10.00

INITIAL CALIBRATION DATA

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Perchlorate	0.5	1.207662	1	1.595062	2	1.343339	5	1.238511	10	1.233179		

INITIAL CALIBRATION DATA (Continued)

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Calibration:	1242005	Instrument:	LCMS1
Matrix:	Water	Calibration Dates:	8/27/11 14:45 8/27/11 16:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Perchlorate	1.323551	12.12046	9.0102	2.895014E-02	0.9990878		0.995	

INITIAL CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000012.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1H24210	Injection Date:	08/27/11
Lab Sample ID:	1H24210-ICV1	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perchlorate	L	5.000	4.866	1.323551	1.219141		-2.7	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000029.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/06/11
Lab Sample ID:	1J28004-CCV3	Injection Time:	23:11

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.024	1.323551	1.257451		0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000046.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV4	Injection Time:	04:30

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	5.073	1.323551	1.269358		1.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Instrument ID:	LCMS1	Calibration:	1242005
Lab File ID:	PERC000059.D\Report.TXT	Calibration Date:	08/27/11 00:00
Sequence:	1J28004	Injection Date:	10/07/11
Lab Sample ID:	1J28004-CCV5	Injection Time:	08:34

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perchlorate	L	5.000	4.743	1.323551	1.189377		-5.1	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV3

Standard ID: 111O314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.027	2.7	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV4

Standard ID: 1110314

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.103	10.3	30.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW6850

Laboratory: Empirical Laboratories, LLC

Client: Accutest Laboratories

Calibration: 1242005

Sequence: 1J28004

SDG: 1110004

Project: Accutest

Laboratory ID: 1J28004-LCV5

Standard ID: 11E0148

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Perchlorate	1.000	1.115	11.5	30.00

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11E0147	Perchlorate Initial Calibration 0.5 ug/L	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
11E0148	Perchlorate Initial Calibration 1.0 ug/L	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
11E0149	Perchlorate Initial Calibration 2.0 ug/L	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
11E0150	Perchlorate Initial Calibration 5.0 ug/L	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
11E0151	Perchlorate Initial Calibration 10 ug/L	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1H24210	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24210-CAL2	PERC000005.D\Report.TXT	08/27/11 14:45
Cal Standard	1H24210-CAL3	PERC000006.D\Report.TXT	08/27/11 15:04
Cal Standard	1H24210-CAL4	PERC000007.D\Report.TXT	08/27/11 15:23
Cal Standard	1H24210-CAL5	PERC000008.D\Report.TXT	08/27/11 15:42
Cal Standard	1H24210-CAL6	PERC000009.D\Report.TXT	08/27/11 16:01
Initial Cal Check	1H24210-ICV1	PERC000012.D\Report.TXT	08/27/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW6850

Laboratory:	Empirical Laboratories, LLC	SDG:	1110004
Client:	Accutest Laboratories	Project:	Accutest
Sequence:	1J28004	Instrument:	LCMS1
Calibration:	1242005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28004-CCV3	PERC000029.D\Report.TXT	10/06/11 23:11
Low Cal Check	1J28004-LCV3	PERC000030.D\Report.TXT	10/06/11 23:30
Blank	1J05023-BLK1	PERC000031.D\Report.TXT	10/06/11 23:49
LCS	1J05023-BS1	PERC000032.D\Report.TXT	10/07/11 00:08
Calibration Check	1J28004-CCV4	PERC000046.D\Report.TXT	10/07/11 04:30
Low Cal Check	1J28004-LCV4	PERC000047.D\Report.TXT	10/07/11 04:49
MA02 MW001D	1110004-01	PERC000054.D\Report.TXT	10/07/11 07:01
MA02 MW001D	1110004-02	PERC000055.D\Report.TXT	10/07/11 07:19
Calibration Check	1J28004-CCV5	PERC000059.D\Report.TXT	10/07/11 08:34
Low Cal Check	1J28004-LCV5	PERC000060.D\Report.TXT	10/07/11 08:53

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1110004	
Client:	Accutest Laboratories		Project:	Accutest	
Matrix:		Laboratory ID:	1J05023-BLK1	File ID:	PERC000031.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/06/11 23:49
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate		0.0660	0.500	U

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	1110004
Client:	Accutest Laboratories			Project:	Accutest
Matrix:		Laboratory ID:	1J05023-BS1	File ID:	PERC000032.D\Report.TXT
Sampled:		Prepared:		Analyzed:	10/07/11 00:08
Solids:		Preparation:	LCMS_PREP6850_W	Dilution:	
Batch:	1J05023	Sequence:	1J28004	Calibration:	1242005
Instrument:	LCMS1				

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	MRL	Q
14797-73-0	Perchlorate	1.939	0.0660	0.500	

HOLDING TIME SUMMARY

SW6850

Laboratory: Empirical Laboratories, LLC SDG: 1110004

Client: Accutest Laboratories Project: Accutest

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:01	8.90	28.00	
MA02 MW001D	09/28/11 10:28	10/01/11 09:10	10/05/11 13:40	N/A	28.00	10/07/11 07:19	8.91	28.00	

Accutest Laboratories Southeast
Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information	Project Information
Company Name: Accutest Laboratories	Project Name: F86441
Address: 4405 Vineland Rd.	Please send report to dawnd@accutest.com
City: Orlando State: FL Zip: 32811	For any other issues contact munam@accutest.com
Phone #: (407) 425-6700 Fax#: (407) 425-0707	

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	SL-CMS6850PRCHLT 6850 Perchlorate	Analytical Information	Matrix Codes
	1110004																	
1X	-01 MA02 MW001D	09/28/11	10:28		GW	1		X								X (Total)		LAB USE ONLY
1XF	-02 MA02 MW001D	09/28/11	10:28		GW	1		X								X (Dissolved)		

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code: 10/3/11

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☒ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Ship to Laboratory - Empirical

Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Scott Hilse ALSE	9/30/11 1700	2 FED EX	3 FED EX	9930 10.1.11	4 Reynold Talley
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

Data Validation Report

Melrose AFB Semi-Annual

Trinity Analysis & Development Corp

Environmental Data Professional, LLC
212 Doctor Michael DeBakey Drive • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

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Cover Letter

Validation Report Date:

Sample Delivery Group:

Project Name:

Data validation personnel:

Data Deliverables Included:

- [ ]
- [x]
- [x]
- [x]
- [x]
- [x]
- [x]
- [x]

Approval Signature: _____ Date: October 30, 2011

INTRODUCTION:

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M[illegible]r[illegible]W[illegible]r[illegible]

[illegible] *USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review* [illegible]

[illegible]

Sample ID	Lab ID	Collection Date/Time	Analyses
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[illegible]1[illegible]M[illegible]W[illegible]4[illegible]010[illegible]
[illegible]1[illegible]M[illegible]W[illegible]4[illegible]7470[illegible]
[illegible]14[illegible]W[illegible]4[illegible]0[illegible]

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

II. Method SW-846 8260B - Volatile Organic Analyses:

III. Method SW-846 8330 - Explosives

[illegible]

IV. Method EPA 300.0 – Sulfate and Chloride

[illegible]

V. Method EPA 353.2 – Nitrate and Nitrite

[illegible]

VI. Method SW-846 9012A – Total Cyanide

[illegible]

VII. Method SM 2320B – Total Alkalinity

[illegible]

VIII. Method SM 2540C - Total Dissolved Solids

[illegible]

IX. Method SW-846 7196A – Hexavalent Chromium

[illegible]

X. Method SW-846 6010C – TAL metals (total)

XI. Method SW-846 6010C – TAL metals (dissolved)

[illegible]

XII. Method SW-846 7470A – Mercury (total)

[illegible]

XIII. Method SW-846 7470A – Mercury (dissolved)

[illegible]

XIV. Method SW-846 6860 – Perchlorate (Filtered and Unfiltered)

[illegible]

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
[illegible]	M114MW001[illegible]	1[illegible]41	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	0[illegible]0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	1[illegible]7[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]7[illegible]	[illegible]	0[illegible]7[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]0[illegible]MW001[illegible]	0[illegible]7[illegible]	[illegible]	0[illegible]7[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0[illegible]7[illegible]	[illegible]	0[illegible]7[illegible]	[illegible]	[illegible]
M[illegible]	M114MW001[illegible]	0[illegible]1	[illegible]	[illegible]	[illegible]	[illegible]
M[illegible]	M114MW00[illegible]	1[illegible]7	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	MW[illegible]	0[illegible]0[illegible]	[illegible]	0[illegible]0[illegible]	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]
M[illegible]	M114MW00[illegible]	[illegible]1[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
M[illegible]	M114MW00[illegible]	[illegible]7	[illegible]	1[illegible]	[illegible]	[illegible]
M[illegible]	[illegible]1[illegible]	0[illegible]100[illegible]7	[illegible]	0[illegible]100[illegible]7	[illegible]	[illegible]
M[illegible]	M114MW001[illegible]	0[illegible]07[illegible]	[illegible]	0[illegible]07[illegible]	[illegible]	[illegible]
M[illegible]	M114MW00[illegible]	0[illegible]101[illegible]	[illegible]	0[illegible]101[illegible]	[illegible]	[illegible]
M[illegible]	M114MW00[illegible]	0[illegible]07[illegible]	[illegible]	0[illegible]07[illegible]	[illegible]	[illegible]
M[illegible]	M114MW004[illegible]	0[illegible]07[illegible]	[illegible]	0[illegible]07[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	[illegible]4	[illegible]	40	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]7	[illegible]	10	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]01MW001[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]0[illegible]MW001[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	MW[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]00[illegible]	[illegible]	0[illegible]00[illegible]	[illegible]	[illegible]
[illegible]	M114MW001[illegible]	0[illegible]	[illegible]	0[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	0[illegible]4[illegible]	[illegible]	0[illegible]4[illegible]	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	0[illegible]4[illegible]	[illegible]	0[illegible]4[illegible]	[illegible]	[illegible]
[illegible]	M114MW004[illegible]	0[illegible]11	[illegible]	0[illegible]11	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]0001	[illegible]	0[illegible]0001	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]0001	[illegible]	0[illegible]0001	[illegible]	[illegible]
[illegible]	[illegible]1[illegible]	0[illegible]0[illegible]1	[illegible]	0[illegible]0[illegible]1	[illegible]	[illegible]
[illegible]	M114MW001[illegible]	0[illegible]00[illegible]7	[illegible]	0[illegible]00[illegible]7	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	0[illegible]00[illegible]77	[illegible]	0[illegible]00[illegible]77	[illegible]	[illegible]
[illegible]	M114MW00[illegible]	0[illegible]00[illegible]	[illegible]	0[illegible]00[illegible]	[illegible]	[illegible]
[illegible]	M114MW004[illegible]	0[illegible]00[illegible]4	[illegible]	0[illegible]00[illegible]4	[illegible]	[illegible]
[illegible]	M[illegible]01MW001[illegible]	0[illegible]000[illegible]	[illegible]	0[illegible]000[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]01MW001[illegible]	0[illegible]000[illegible]7	[illegible]	0[illegible]000[illegible]7	[illegible]	[illegible]
[illegible]	M[illegible]01[illegible]MW00[illegible]	0[illegible]0014[illegible]	[illegible]	0[illegible]0014[illegible]	[illegible]	[illegible]
[illegible]	M[illegible]01MW00[illegible]	0[illegible]00041[illegible]	[illegible]	0[illegible]00041[illegible]	[illegible]	[illegible]

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
□□r□□□r□□□□	M□01MW00□□	0□000□□□	□□	0□000□□□	□□	□□□r□□□□□r□□□M□□M□□□
□□r□□□r□□□□	M□01□MW004□	0□00□□□	□□	0□00□□□	□□	□□□r□□□□□r□□□M□□M□□□
□□r□□□r□□□□	M□0□MW001□□	0□01□□	□□	0□01□□	□□	□□□r□□□□□r□□□M□□M□□□
□□r□□□r□□□□	MW□ □□□□	0□0001	□□□	0□0001	□□	□□□ □□□□□□□□□□r□□□r□□□□□□□□r□□
□□r□□□r□□□□	MW□ □□□□	0□0001	□□□	0□0001	□□	□□□ □□□□□□□□□□r□□□r□□□□□□□□r□□

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 9:33 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 9:06 PM**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 9:33 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 9:06 PM**
Lab Sample ID: **21109280401**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 12:21 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 8:45 PM**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 12:21 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 8:45 PM**
Lab Sample ID: **21109280402**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 4:33 PM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/02/2011 10:30 PM**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-1** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/27/2011 4:33 PM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/02/2011 10:30 PM**
Lab Sample ID: **21109280405**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/28/2011 10:28 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 9:33 PM**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA02MW001D** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/28/2011 10:28 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 9:33 PM**
Lab Sample ID: **21109280407**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **09/28/2011 10:28 AM** | Lab: **GCAL**
Sample Type: **Field Duplicate** | Analysis Date: **10/02/2011 9:54 PM**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **FD-1** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **09/28/2011 10:28 AM** | Lab: **GCAL**
Sample Type: **Field Duplicate** | Analysis Date: **10/02/2011 9:54 PM**
Lab Sample ID: **21109280408**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/28/2011 10:28 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/02/2011 10:15 PM**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-2** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/28/2011 10:28 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/02/2011 10:15 PM**
Lab Sample ID: **21109280409**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	UQ	0.279	U	ug/L	*
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **09/29/2011 8:40 AM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **10/03/2011 1:45 PM**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MWQ-23** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **09/29/2011 8:40 AM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **10/03/2011 1:45 PM**
Lab Sample ID: **21109280410**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L	
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	UQ	0.068	U	ug/L	*
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/29/2011 11:10 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 10:51 PM**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/29/2011 11:10 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 10:51 PM**
Lab Sample ID: **21109280411**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/29/2011 1:06 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 11:12 PM**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **MA01-MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/29/2011 1:06 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/02/2011 11:12 PM**
Lab Sample ID: **21109280412**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/29/2011 8:40 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/02/2011 11:32 PM**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-4** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **09/29/2011 8:40 AM** | Lab: **GCAL**
Sample Type: **Trip Blank** | Analysis Date: **10/02/2011 11:32 PM**
Lab Sample ID: **21109280413**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 10:00 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 12:35 PM**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	5.42		5.42		ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 10:00 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 12:35 PM**
Lab Sample ID: **21110010501**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 12:36 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 12:56 PM**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.41	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 12:36 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 12:56 PM**
Lab Sample ID: **21110010502**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	0.891	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 10:00 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/07/2011 1:17 PM**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.5	J	2.5	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-5** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **09/30/2011 10:00 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/07/2011 1:17 PM**
Lab Sample ID: **21110010503**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	1.04	J	1.04	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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R = Rejected
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 8:00 AM** Lab: **GCAL**
Sample Type: **Equipment Rinsate** Analysis Date: **10/05/2011 10:37 AM**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.38	J	2.38	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **EB-1** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 8:00 AM** Lab: **GCAL**
Sample Type: **Equipment Rinsate** Analysis Date: **10/05/2011 10:37 AM**
Lab Sample ID: **21110010504**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	3.55	J	3.55	J	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 9:32 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 2:19 PM**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.909	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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J = Estimated
R = Rejected
N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 9:32 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 2:19 PM**
Lab Sample ID: **21110010505**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 11:46 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 2:41 PM**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	1.75	J	5	U	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **M114MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 11:46 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **10/07/2011 2:41 PM**
Lab Sample ID: **21110010506**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L	
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L	
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L	
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L	
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L	
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L	
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L	
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L	
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L	
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L	
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L	
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L	
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L	
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L	
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L	
75-09-2	Methylene chloride	1	5	1.37	J	5	U	ug/L	*
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L	
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L	
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L	
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L	
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L	
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L	
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L	
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L	
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L	
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L	
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L	
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L	
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L	
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L	
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L	

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N = Presumptive evidence
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **10/03/2011 8:00 AM** Lab: **GCAL**
Sample Type: **Trip Blank** Analysis Date: **10/05/2011 10:58 AM**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	2.31	J	2.31	J	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

COC Sample ID: **TB-6** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **10/03/2011 8:00 AM** | Lab: **GCAL**
Sample Type: **Trip Blank** | Analysis Date: **10/05/2011 10:58 AM**
Lab Sample ID: **21110010507**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:02 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:02 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **09/27/2011 12:21 PM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 6:49 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 6:49 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 9:10 PM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 9:10 PM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.143	U	0.143	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.26	U	0.26	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	1.03	0.312	U	0.312	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.129	U	0.129	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.092	U	0.092	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.11	U	0.11	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.111	U	0.111	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.12	U	0.12	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.036	U	0.036	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.14	U	0.14	U	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 10:59 PM**	1	0.206	0.068	U	0.068	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 10:59 PM**	1	0.515	0.206	U	0.206	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/05/2011 11:46 PM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/05/2011 11:46 PM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **09/29/2011 11:10 AM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 12:33 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 12:33 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.145	UJ	0.145	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.263	UJ	0.263	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	1.04	0.316	UJ	0.316	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.13	UJ	0.13	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.093	UJ	0.093	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.111	UJ	0.111	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.113	UJ	0.113	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.121	UJ	0.121	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.036	UJ	0.036	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.142	UJ	0.142	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 1:20 AM**	1	0.208	0.069	UJ	0.069	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 1:20 AM**	1	0.521	0.208	UJ	0.208	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **09/30/2011 10:00 AM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:07 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:07 AM**	1	0.505	0.202	U	0.202	U	ug/L

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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 2:54 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 2:54 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.14	U	0.14	U	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.255	U	0.255	U	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	1.01	0.306	U	0.306	U	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.126	U	0.126	U	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.09	U	0.09	U	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.108	U	0.108	U	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.109	U	0.109	U	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.117	U	0.117	U	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.035	U	0.035	U	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.137	U	0.137	U	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 3:41 AM**	1	0.202	0.067	U	0.067	U	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 3:41 AM**	1	0.505	0.202	U	0.202	U	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 4:28 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 4:28 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
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U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - HPLC

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.14	UJ	0.14	UJ	ug/L
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.255	UJ	0.255	UJ	ug/L
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	1.01	0.306	UJ	0.306	UJ	ug/L
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.126	UJ	0.126	UJ	ug/L
88-72-2	2-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.09	UJ	0.09	UJ	ug/L
99-08-1	3-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.108	UJ	0.108	UJ	ug/L
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.109	UJ	0.109	UJ	ug/L
99-99-0	4-Nitrotoluene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.117	UJ	0.117	UJ	ug/L
2691-41-0	HMX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.035	UJ	0.035	UJ	ug/L
98-95-3	Nitrobenzene	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.137	UJ	0.137	UJ	ug/L
121-82-4	RDX	SW-846 8330	**10/06/2011 5:15 AM**	1	0.202	0.067	UJ	0.067	UJ	ug/L
479-45-8	Tetryl	SW-846 8330	**10/06/2011 5:15 AM**	1	0.505	0.202	UJ	0.202	UJ	ug/L

DF = Dilution Factor
MDL = Method Detection Limit
RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	200	**84.3**	**B**	**84.3**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 12:52 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**14.9**		**14.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:52 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:25 PM**	**1**	100	**51000**		**51000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**1.06**	**B**	**1.06**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:52 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	100	**48100**		**48100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	15	**5.72**	**B**	**5.72**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	50	**4.42**	**B**	**4.42**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	500	**7120**		**7120**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:52 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:52 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	1000	**569000**		**569000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:52 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 12:52 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**23**		**23**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:52 AM**	**1**	20	**229**		**229**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**14.7**		**14.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:05 PM**	**1**	100	**51300**		**51300**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280401**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 9:33 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	10	**11.7**		**11.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	100	**51400**		**51400**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	50	**4.61**	**B**	**4.61**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	500	**7670**		**7670**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:10 PM**	**2**	2000	**556000**		**556000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 10:23 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**26.1**		**26.1**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 10:23 PM**	**1**	20	**248**		**248**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:32 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:33 PM**	1	0.2	0.075	U	0.075	U	ug/L

DF = Dilution Factor
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R = Rejected
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B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 12:01 AM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	60	**5.29**	**B**	**5.29**	**B**	**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**20.7**		**20.7**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 12:01 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 4:48 PM**	**1**	100	**64100**		**64100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**1.96**	**B**	**1.96**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	10	**13.7**		**13.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 12:01 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 12:01 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**61200**		**61200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	15	**10.2**	**B**	**10.2**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C	**10/04/2011 12:01 AM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	500	**7750**		**7750**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 12:01 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 12:01 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	1000	**459000**		**459000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 12:01 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	100	**1.24**	**B**	**1.24**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**29.6**		**29.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 12:01 AM**	**1**	20	**339**		**339**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**18.1**		**18.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 1:58 PM**	**1**	100	**58600**		**58600**		**ug/L**

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J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280402**

Sample Matrix Code: **W**
Sample Date: **09/27/2011 12:21 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	10	**12.7**		**12.7**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	100	**58700**		**58700**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	15	**8.24**	**B**	**8.24**	**B**	**ug/L**
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	50	3.75	U	3.75	U	ug/L
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	500	**7620**		**7620**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	1000	**430000**		**430000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 9:48 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**26.7**		**26.7**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 9:48 PM**	**1**	20	**316**		**316**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:17 PM**	**1**	0.2	**0.09518**	**B**	**0.09518**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:27 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:00 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:00 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**9.84**	**B**	**9.84**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:00 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:48 PM**	**1**	100	**114000**		**114000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	10	**25.3**		**25.3**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:00 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	100	**67600**		**67600**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	15	**209**		**209**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	50	**14**	**B**	**14**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**1.43**	**B**	**1.43**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	500	**8540**		**8540**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	40	**117**		**117**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:00 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:35 PM**	**25**	25000	**1580000**		**1580000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:00 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:00 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**24.5**		**24.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:00 AM**	**1**	20	**288**		**288**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**9.44**	**B**	**9.44**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:13 PM**	**1**	100	**119000**		**119000**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280407**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	10	**23.8**		**23.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	100	**73300**		**73300**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	50	**15.2**	**B**	**15.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**2.14**	**B**	**2.14**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	500	**9280**		**9280**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	40	**132**		**132**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:18 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:01 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:01 PM**	**1**	20	**301**		**301**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:35 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:37 PM**	1	0.2	0.075	U	0.075	U	ug/L

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	200	**78.9**	**B**	**78.9**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:07 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**10.1**		**10.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:07 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 5:55 PM**	**1**	100	**116000**		**116000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	10	**25**		**25**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:07 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	100	**69100**		**69100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	15	**210**		**210**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	50	**14.2**	**B**	**14.2**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**1.82**	**B**	**1.82**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	500	**8720**		**8720**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	40	**122**		**122**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:07 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 5:43 PM**	**25**	25000	**1630000**		**1630000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:07 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:07 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:07 AM**	**1**	20	**290**		**290**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**3.85**	**B**	**3.85**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**9.39**	**B**	**9.39**	**B**	**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:30 PM**	**1**	100	**122000**		**122000**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **FD-1**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21109280408**

Sample Matrix Code: **W**
Sample Date: **09/28/2011 10:28 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	10	**23.6**		**23.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	100	**73800**		**73800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	15	**188**		**188**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	50	**15.3**	**B**	**15.3**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	500	**9230**		**9230**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	40	**133**		**133**		**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/04/2011 5:27 PM**	**25**	25000	**1600000**		**1600000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C Diss	**10/03/2011 11:08 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**25.6**		**25.6**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:08 PM**	**1**	20	**303**		**303**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:38 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:40 PM**	1	0.2	0.075	U	0.075	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:15 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:15 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**11.3**		**11.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:15 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:02 PM**	**1**	100	**14700**		**14700**		**ug/L**
7440-47-3	Chromium	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	10	**5.68**	**B**	**5.68**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:15 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	100	**9550**		**9550**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	15	**78**		**78**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	50	**30.4**	**B**	**30.4**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	500	**2570**		**2570**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:15 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:15 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	1000	**472000**		**472000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:15 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:15 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**8.39**	**B**	**8.39**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:15 AM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**10.8**		**10.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:37 PM**	**1**	100	**14700**		**14700**		**ug/L**

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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MWQ-23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280410**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 8:40 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	10	**5.14**	**B**	**5.14**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**9680**		**9680**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	15	**75.9**		**75.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	50	**31.3**	**B**	**31.3**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	500	**2470**		**2470**		**ug/L**
7782-49-2	Selenium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	1000	**481000**		**481000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	100	**2.51**	**B**	**2.51**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**8.64**	**B**	**8.64**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:15 PM**	**1**	20	**18.4**	**B**	**18.4**	**B**	**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:41 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	Mercury	SW-846 7470A Disso	**10/03/2011 4:46 PM**	1	0.2	0.075	U	0.075	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:23 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:23 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**23**		**23**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:23 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:10 PM**	**1**	100	**39300**		**39300**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**1.21**	**B**	**1.21**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	10	**8.23**	**B**	**8.23**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:23 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	100	**35500**		**35500**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	15	**6.56**	**B**	**6.56**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	50	**4.78**	**B**	**4.78**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:23 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	500	**6040**		**6040**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	40	**6.15**	**B**	**6.15**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:23 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	1000	**321000**		**321000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:23 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:23 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**26.4**		**26.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:23 AM**	**1**	20	**276**		**276**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**23.4**		**23.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:44 PM**	**1**	100	**39900**		**39900**		**ug/L**

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J = Estimated
R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280411**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	Chromium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	10	**9.63**	**B**	**9.63**	**B**	**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	15	**5.81**	**B**	**5.81**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	50	**5.07**	**B**	**5.07**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	500	**6150**		**6150**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	40	**5.03**	**B**	**5.03**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	1000	**323000**		**323000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:23 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	100	**1.52**	**B**	**1.52**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**32.5**		**32.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:23 PM**	**1**	20	**305**		**305**		**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A**	**10/03/2011 4:48 PM**	**1**	0.2	**0.08023**	**B**	**0.08023**	**B**	**ug/L**
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:49 PM**	**1**	0.2	**0.08433**	**B**	**0.08433**	**B**	**ug/L**

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**10/04/2011 1:31 AM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**10/04/2011 1:31 AM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**16.3**		**16.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**10/04/2011 1:31 AM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**10/05/2011 6:18 PM**	**1**	100	**39000**		**39000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**2.47**	**B**	**2.47**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	10	**10.2**		**10.2**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/04/2011 1:31 AM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	100	**35800**		**35800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	15	**5.45**	**B**	**5.45**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	50	**5.93**	**B**	**5.93**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	500	**6640**		**6640**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**10/04/2011 1:31 AM**	1	40	3.79	U	3.79	U	ug/L
7440-22-4	Silver	SW-846 6010C	**10/04/2011 1:31 AM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	1000	**531000**		**531000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/04/2011 1:31 AM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/04/2011 1:31 AM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**25.9**		**25.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/04/2011 1:31 AM**	**1**	20	**210**		**210**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**15.1**		**15.1**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	Cadmium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/05/2011 3:55 PM**	**1**	100	**39100**		**39100**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **MA01-MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21109280412**

Sample Matrix Code: **W**
Sample Date: **09/29/2011 1:06 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	10	**10.6**		**10.6**		**ug/L**
7439-89-6	Iron	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**36100**		**36100**		**ug/L**
7439-96-5	Manganese	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	50	**6.66**	**B**	**6.66**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	40	0.84	U	0.84	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	500	**6710**		**6710**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	40	**4.49**	**B**	**4.49**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	1000	**533000**		**533000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C Diss	**10/03/2011 11:31 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	**Titanium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	100	**1.37**	**B**	**1.37**	**B**	**ug/L**
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**27.4**		**27.4**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/03/2011 11:31 PM**	**1**	20	**219**		**219**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**10/03/2011 4:51 PM**	1	0.2	0.075	U	0.075	U	ug/L
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/03/2011 4:52 PM**	**1**	0.2	**0.09305**	**B**	**0.09305**	**B**	**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	200	**110**	**B**	**110**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 5:30 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**15.2**		**15.2**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 5:30 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	5	**1.58**	**B**	**1.58**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	100	**303000**		**303000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**4.29**	**B**	**4.29**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	10	**13.8**		**13.8**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**10/06/2011 5:30 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	100	**283000**		**283000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 4:53 PM**	**1**	15	**3.49**	**B**	**3.49**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	50	**13.1**	**B**	**13.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**1.22**	**B**	**1.22**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	500	**17100**		**17100**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	40	**21.6**	**B**	**21.6**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 5:30 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 1:27 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 5:30 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 5:30 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**4**	**B**	**4**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 5:30 PM**	**1**	20	**347**		**347**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**4.75**	**B**	**4.75**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**15**		**15**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	5	**1.4**	**B**	**1.4**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 3:30 PM**	**1**	100	**339000**		**339000**		**ug/L**

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010501**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 10:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	10	**17.6**		**17.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	100	**283000**		**283000**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	50	**13.3**	**B**	**13.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	500	**18300**		**18300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	40	**22.4**	**B**	**22.4**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 11:04 AM**	**25**	25000	**2480000**		**2480000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 3:33 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**6.46**	**B**	**6.46**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 3:33 PM**	**1**	20	**366**		**366**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:16 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:15 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	200	**100**	**B**	**100**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:15 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	3.49	U	3.49	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**17.4**		**17.4**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:15 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	5	**1.16**	**B**	**1.16**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:25 PM**	**1**	100	**259000**		**259000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**8.46**	**B**	**8.46**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	10	**15.8**		**15.8**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**47.1**	**B**	**47.1**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:15 PM**	1	15	2.83	U	2.83	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	100	**236000**		**236000**		**ug/L**
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:25 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	50	**17.8**	**B**	**17.8**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**8.97**	**B**	**8.97**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	500	**16400**		**16400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	40	**30.3**	**B**	**30.3**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:15 PM**	1	10	0.64	U	0.64	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:19 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:15 PM**	1	20	2.6	U	2.6	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**14.8**	**B**	**14.8**	**B**	**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:15 PM**	**1**	20	**394**		**394**		**ug/L**
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	60	3.98	U	3.98	U	ug/L
7440-38-2	**Arsenic**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**3.83**	**B**	**3.83**	**B**	**ug/L**
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**16.9**		**16.9**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	5	0.082	U	0.082	U	ug/L
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	5	**1.19**	**B**	**1.19**	**B**	**ug/L**
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:01 PM**	**1**	100	**285000**		**285000**		**ug/L**

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010502**

Sample Matrix Code: **W**
Sample Date: **09/30/2011 12:36 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**4.17**	**B**	**4.17**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	10	**15.6**		**15.6**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	100	**257000**		**257000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	50	**18.8**	**B**	**18.8**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**9.23**	**B**	**9.23**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	500	**17700**		**17700**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	40	**30.1**	**B**	**30.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:20 PM**	**25**	25000	**2080000**		**2080000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**10.5**	**B**	**10.5**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:05 PM**	**1**	20	**413**		**413**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:20 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:18 PM**	**1**	0.2	**0.08165**	**B**	**0.08165**	**B**	**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**10/06/2011 6:22 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:22 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	2.23	B	10	U	ug/L	*
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**10/06/2011 6:22 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C	**10/10/2011 2:26 PM**	1	100	50	U	50	U	ug/L	
7440-47-3	Chromium	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:22 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	**Manganese**	**SW-846 6010C**	**10/10/2011 2:26 PM**	**1**	15	**2.1**	**B**	**2.1**	**B**	**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**10/06/2011 6:22 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	40	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-09-7	Potassium	SW-846 6010C	**10/06/2011 6:22 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C	**10/06/2011 6:22 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:22 PM**	1	10	0.67	B	10	U	ug/L	*
7440-23-5	Sodium	SW-846 6010C	**10/10/2011 2:26 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**10/06/2011 6:22 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C	**10/06/2011 6:22 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:22 PM**	**1**	20	**13.6**	**B**	**13.6**	**B**	**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	Barium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.59	U	1.59	U	ug/L	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	Calcium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	100	50	U	50	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **EB-1**
Property ID: **NA**
Sample Type: **Equipment Rinsate**
Lab Sample ID: **21110010504**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 8:00 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	Chromium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	1.69	U	1.69	U	ug/L	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	Magnesium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	50	U	50	U	ug/L	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	Potassium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	500	100	U	100	U	ug/L	
7782-49-2	Selenium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	40	3.79	U	3.79	U	ug/L	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	Sodium	SW-846 6010C Diss	**10/10/2011 12:28 PM**	1	1000	200	U	200	U	ug/L	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	Vanadium	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	3.75	U	3.75	U	ug/L	
7440-66-6	Zinc	SW-846 6010C Diss	**10/06/2011 4:41 PM**	1	20	5.89	U	5.89	U	ug/L	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:23 PM**	**1**	0.2	**0.10037**	**B**	**0.10037**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:21 PM**	1	0.2	0.075	U	0.075	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	200	**85.3**	**B**	**85.3**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:29 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**17.3**		**17.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:29 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	5	**1.37**	**B**	**1.37**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:31 PM**	**1**	100	**251000**		**251000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**4.92**	**B**	**4.92**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	10	**13.8**		**13.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**60.5**	**B**	**60.5**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:29 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**255000**		**255000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:31 PM**	1	15	3.12	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	50	**23.7**	**B**	**23.7**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**40.6**		**40.6**		**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	500	**16500**		**16500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	40	**23.2**	**B**	**23.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:29 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:34 PM**	**25**	25000	**2100000**		**2100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:29 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	100	**2.01**	**B**	**2.01**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**11**	**B**	**11**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:29 PM**	**1**	20	**239**		**239**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.5**		**15.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	5	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:08 PM**	**1**	100	**267000**		**267000**		**ug/L**	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010505**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 9:32 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**3.73**	**B**	**3.73**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	10	**15.8**		**15.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	100	**258000**		**258000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:08 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	50	**22.1**	**B**	**22.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	40	39.4	B	40	U	ug/L	*
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	40	**20.1**	**B**	**20.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:35 PM**	**25**	25000	**2220000**		**2220000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:48 PM**	**1**	20	**234**		**234**		**ug/L**	
7439-97-6	**Mercury**	**SW-846 7470A**	**10/05/2011 1:05 PM**	**1**	0.2	**0.10199**	**B**	**0.10199**	**J**	**ug/L**	*
7439-97-6	Mercury	SW-846 7470A Disso	**10/05/2011 1:04 PM**	1	0.2	0.075	U	0.075	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	200	**200**		**200**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**10/06/2011 6:36 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**10/06/2011 6:36 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	5	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**10/10/2011 5:37 PM**	**1**	100	**317000**		**317000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**162**		**162**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**10/06/2011 6:36 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**10/10/2011 5:37 PM**	1	15	6.87	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	50	**9.56**	**B**	**9.56**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**10/06/2011 6:36 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	500	**17000**		**17000**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	40	**29.6**	**B**	**29.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**10/06/2011 6:36 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**10/10/2011 2:41 PM**	**25**	25000	**2540000**		**2540000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**10/06/2011 6:36 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	100	**2.45**	**B**	**2.45**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**12.1**	**B**	**12.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**10/06/2011 6:36 PM**	**1**	20	**276**		**276**		**ug/L**	
7429-90-5	Aluminum	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	60	3.98	U	3.98	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	3.49	U	3.49	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	5	0.082	U	0.082	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	5	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C Diss**	**10/10/2011 4:16 PM**	**1**	100	**334000**		**334000**		**ug/L**	

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11092804

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21110010506**

Sample Matrix Code: **W**
Sample Date: **10/03/2011 11:46 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7440-47-3	**Chromium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**1.33**	**B**	**1.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	10	**15.1**		**15.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	15	2.83	U	2.83	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	100	**272000**		**272000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C Diss	**10/10/2011 4:16 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	50	**8.6**	**B**	**8.6**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	40	0.84	U	0.84	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	500	**17400**		**17400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	40	**29.7**	**B**	**29.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	10	0.64	U	0.64	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C Diss**	**10/10/2011 12:43 PM**	**25**	25000	**2580000**		**2580000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	20	2.6	U	2.6	U	ug/L	
7440-32-6	Titanium	SW-846 6010C Diss	**10/06/2011 4:55 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**13.4**	**B**	**13.4**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C Diss**	**10/06/2011 4:55 PM**	**1**	20	**271**		**271**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**10/05/2011 1:26 PM**	1	0.2	0.075	U	0.075	UJ	ug/L	*
7439-97-6	**Mercury**	**SW-846 7470A Diss**	**10/05/2011 1:24 PM**	**1**	0.2	**0.09168**	**B**	**0.09168**	**B**	**ug/L**	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	50	525		525		mg/L	
Sulfate	**09/27/2011 9:33 AM**	**10/05/2011 6:17 PM**	500	100	564		564		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 9:33 AM**	**09/28/2011 3:57 PM**	1	0.01	0.116		0.116		mg/L-N	
Nitrite	**09/27/2011 9:33 AM**	**09/28/2011 4:53 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000357	JN	0.000357	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 9:33 AM**	**10/03/2011 10:23 PM**	1	0.0003	0.000266	N	0.000266	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 9:33 AM**	**09/30/2011 7:51 AM**	1	1	172		172		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 9:33 AM**	**09/30/2011 1:00 PM**	1	10	1990		1990		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 9:33 AM**	**09/28/2011 10:13 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 9:33 AM**	**10/06/2011 10:26 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280402**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	50	477		477		mg/L	
Sulfate	**09/27/2011 12:21 PM**	**10/05/2011 6:34 PM**	500	100	524		524		mg/L	
Method: EPA 353.2										
Nitrate	**09/27/2011 12:21 PM**	**09/28/2011 3:58 PM**	1	0.01	0.085		0.085		mg/L-N	
Nitrite	**09/27/2011 12:21 PM**	**09/28/2011 4:54 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000413	JN	0.000413	J	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/27/2011 12:21 PM**	**10/03/2011 9:48 PM**	1	0.0003	0.000298	N	0.000298	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/27/2011 12:21 PM**	**09/30/2011 7:51 AM**	1	1	152		152		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/27/2011 12:21 PM**	**09/30/2011 1:00 PM**	1	10	1790		1790		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/27/2011 12:21 PM**	**09/28/2011 10:14 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/27/2011 12:21 PM**	**10/06/2011 10:28 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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RL = Reporting Limit
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **MA02MW001D** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Site Sample** Lab Code: **GCAL**
Lab Sample ID: **21109280407**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	100	1640		1640		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:27 PM**	1000	200	1860		1860		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:46 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:34 PM**	1	0.01	0.035		0.035		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0238	N	0.0238		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:01 PM**	1	0.00149	0.0196	N	0.0196	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	142		142		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5620		5620		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:54 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:31 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **FD-1** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Field Duplicate** Lab Code: **GCAL**
Lab Sample ID: **21109280408**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	100	1620		1620		mg/L	
Sulfate	**09/28/2011 10:28 AM**	**10/05/2011 7:44 PM**	1000	200	1940		1940		mg/L	
Method: EPA 353.2										
Nitrate	**09/28/2011 10:28 AM**	**09/29/2011 11:48 AM**	5	0.05	1.71		1.71		mg/L-N	
Nitrite	**09/28/2011 10:28 AM**	**09/29/2011 12:35 PM**	1	0.01	0.04		0.04		mg/L-N	
Method: EPA 6860										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0212	N	0.0212		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/28/2011 10:28 AM**	**10/03/2011 11:08 PM**	1	0.00149	0.0231	N	0.0231	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/28/2011 10:28 AM**	**09/30/2011 7:51 AM**	1	1	144		144		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/28/2011 10:28 AM**	**09/30/2011 1:00 PM**	1	10	5750		5750		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/28/2011 10:28 AM**	**09/29/2011 11:55 AM**	1	10	6	B	6	J	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/28/2011 10:28 AM**	**10/06/2011 10:32 AM**	1	0.005	0.0006	B	0.0006	B	mg/L	

DF = Dilution Factor
RL = Reporting Limit
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MWQ-23**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280410**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	20	212		212		mg/L	
Sulfate	**09/29/2011 8:40 AM**	**10/05/2011 8:02 PM**	200	40	396		396		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 8:40 AM**	**09/30/2011 6:32 PM**	1	0.01	0.013		0.013		mg/L-N	
Nitrite	**09/29/2011 8:40 AM**	**09/30/2011 5:40 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 8:40 AM**	**10/03/2011 11:15 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 8:40 AM**	**09/30/2011 11:01 AM**	1	1	333		333		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 8:40 AM**	**09/30/2011 1:00 PM**	1	10	1310		1310		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 8:40 AM**	**09/30/2011 10:48 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 8:40 AM**	**10/06/2011 10:38 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW004**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280411**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	20	251		251		mg/L	
Sulfate	**09/29/2011 11:10 AM**	**10/05/2011 8:55 PM**	200	40	329		329		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 11:10 AM**	**09/30/2011 6:35 PM**	1	0.01	0.339		0.339		mg/L-N	
Nitrite	**09/29/2011 11:10 AM**	**09/30/2011 5:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00407	N	0.00407		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 11:10 AM**	**10/03/2011 11:23 PM**	1	0.0003	0.00353	N	0.00353	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 11:10 AM**	**09/30/2011 11:01 AM**	1	1	200		200		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 11:10 AM**	**09/30/2011 1:00 PM**	1	10	1130		1130		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 11:10 AM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 11:10 AM**	**10/06/2011 10:39 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**MA01-MW002**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21109280412**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	20	431		431		mg/L	
Sulfate	**09/29/2011 1:06 PM**	**10/05/2011 9:12 PM**	200	40	514		514		mg/L	
Method: EPA 353.2										
Nitrate	**09/29/2011 1:06 PM**	**09/30/2011 6:37 PM**	1	0.01	0.207		0.207		mg/L-N	
Nitrite	**09/29/2011 1:06 PM**	**09/30/2011 5:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00188	N	0.00188		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/29/2011 1:06 PM**	**10/03/2011 11:31 PM**	1	0.0003	0.00149	N	0.00149	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/29/2011 1:06 PM**	**09/30/2011 11:01 AM**	1	1	180		180		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/29/2011 1:06 PM**	**09/30/2011 1:00 PM**	1	10	1720		1720		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/29/2011 1:06 PM**	**09/30/2011 10:49 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/29/2011 1:06 PM**	**10/06/2011 10:40 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **M114MW004** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Site Sample** Lab Code: **GCAL**
Lab Sample ID: **21110010501**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 10:00 AM**	**10/07/2011 9:26 AM**	2000	200	3970		3970		mg/L	
Sulfate	**09/30/2011 10:00 AM**	**10/06/2011 6:50 PM**	1000	200	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 10:00 AM**	**10/01/2011 11:03 AM**	2	0.02	0.511		0.511	J	mg/L-N	*
Nitrite	**09/30/2011 10:00 AM**	**10/01/2011 11:32 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00321	N	0.00321		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 10:00 AM**	**10/06/2011 3:33 PM**	1	0.00149	0.00254	N	0.00254	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 10:00 AM**	**10/03/2011 8:56 AM**	1	1	59.3		59.3		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 10:00 AM**	**10/03/2011 11:00 AM**	1	10	9500		9500		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 10:00 AM**	**10/01/2011 9:53 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 10:00 AM**	**10/06/2011 10:06 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name:	**M114MW001**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21110010502**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	100	3060		3060		mg/L	
Sulfate	**09/30/2011 12:36 PM**	**10/06/2011 7:42 PM**	1000	200	1810		1810		mg/L	
Method: EPA 353.2										
Nitrate	**09/30/2011 12:36 PM**	**10/01/2011 10:50 AM**	1	0.01	0.899		0.899	J	mg/L-N	*
Nitrite	**09/30/2011 12:36 PM**	**10/01/2011 11:36 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.00314	N	0.00314		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**09/30/2011 12:36 PM**	**10/06/2011 4:05 PM**	1	0.00149	0.0027	N	0.0027	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**09/30/2011 12:36 PM**	**10/03/2011 8:56 AM**	1	1	79.4		79.4		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**09/30/2011 12:36 PM**	**10/03/2011 11:00 AM**	1	10	7640		7640		mg/L	
Method: SW-846 7196A										
Chromium VI	**09/30/2011 12:36 PM**	**10/01/2011 9:55 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**09/30/2011 12:36 PM**	**10/06/2011 10:08 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **EB-1** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Equipment Rinsate** | Lab Code: **GCAL**
Lab Sample ID: **21110010504**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.1	0.104		0.104		mg/L	
Sulfate	**10/03/2011 8:00 AM**	**10/06/2011 8:35 PM**	1	0.2	0.079	U	0.079	U	mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 8:00 AM**	**10/04/2011 10:48 AM**	1	0.01	0.003	U	0.003	UJ	mg/L-N	*
Nitrite	**10/03/2011 8:00 AM**	**10/04/2011 11:33 AM**	1	0.01	0.003	U	0.003	U	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 8:00 AM**	**10/06/2011 4:41 PM**	1	0.0003	0.0001	NU	0.0001	U	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 8:00 AM**	**10/05/2011 8:30 AM**	1	1	0.34	U	0.34	U	mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 8:00 AM**	**10/04/2011 2:30 PM**	1	10	7	U	7	U	mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 8:00 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 8:00 AM**	**10/06/2011 10:11 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **M114MW002** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Site Sample** Lab Code: **GCAL**
Lab Sample ID: **21110010505**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	100	3130		3130		mg/L	
Sulfate	**10/03/2011 9:32 AM**	**10/06/2011 8:53 PM**	1000	200	1580		1580		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 9:32 AM**	**10/04/2011 10:49 AM**	1	0.01	0.245		0.245	J	mg/L-N	*
Nitrite	**10/03/2011 9:32 AM**	**10/04/2011 11:35 AM**	1	0.01	0.003	B	0.003	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00278	N	0.00278		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 9:32 AM**	**10/06/2011 4:48 PM**	1	0.00149	0.00277	N	0.00277	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 9:32 AM**	**10/05/2011 8:02 AM**	1	1	79.8		79.8		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 9:32 AM**	**10/04/2011 2:30 PM**	1	10	7610		7610		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 9:32 AM**	**10/04/2011 11:11 AM**	1	10	3.3	U	3.3	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 9:32 AM**	**10/06/2011 10:12 AM**	1	0.005	0.0006	U	0.0006	U	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11092804

Sample Name: **M114MW003** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Site Sample** Lab Code: **GCAL**
Lab Sample ID: **21110010506**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	100	3920		3920		mg/L	
Sulfate	**10/03/2011 11:46 AM**	**10/06/2011 9:45 PM**	1000	200	1880		1880		mg/L	
Method: EPA 353.2										
Nitrate	**10/03/2011 11:46 AM**	**10/04/2011 11:04 AM**	1	0.01	0.43		0.43	J	mg/L-N	*
Nitrite	**10/03/2011 11:46 AM**	**10/04/2011 11:41 AM**	1	0.01	0.005	B	0.005	B	mg/L-N	
Method: EPA 6860										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00406	N	0.00406		mg/L	*
Method: EPA 6860 Filtered										
Perchlorate	**10/03/2011 11:46 AM**	**10/06/2011 4:55 PM**	1	0.00149	0.00329	N	0.00329	J	mg/L	*
Method: SM 2320 B										
Total Alkalinity	**10/03/2011 11:46 AM**	**10/05/2011 8:02 AM**	1	1	53.5		53.5		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**10/03/2011 11:46 AM**	**10/04/2011 2:30 PM**	1	10	9870		9870		mg/L	
Method: SW-846 7196A										
Chromium VI	**10/03/2011 11:46 AM**	**10/04/2011 11:13 AM**	1	10	3.3	U	3.3	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**10/03/2011 11:46 AM**	**10/06/2011 10:15 AM**	1	0.005	0.0009	B	0.0009	B	mg/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
* = Modified by Validation
B = Not detected substantially above the level reported in laboratory or field blanks.

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211092804	10/5/11

Report to:
Client: Trinity Analysis + Development
Address: 1002 N. Eglin Pkwy
Shalimar, FL
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:

Sampled By: B. Stewart, J. Kramer

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrom (7196A)	Cl/SO4/NO3/NO2	ALKT/TOS	Cyanide (NaOH) 9012A	Remarks:	Lab ID
W	9/27/11	0933		X	MA01MW001		13	X	X	X	X	X	X	X	X	X	X		1
W	9/27/11	1221		X	MA01MW003 (DUP)		13	X	X	X	X	X	X	X	X	X	X		2,6
W	9/27/11	1221		X	MA01MW003-MS		13	X	X	X	X	X	X	X	X	X	X		3
W	9/27/11	1221		X	MA01MW003-MSD		13	X	X	X	X	X	X	X	X	X	X		4
W	9/27/11	0933			TB-1		3	X											5

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 3.9, 4.7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
B. Stewart	FedEx		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 795540814998		9/28/11	910
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * 24-hold on hexchrome

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

ZIA MOZCATZ

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only — Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804	

Report to:
Client: Trinity Analysis & Development Corp
Address: 1002 N Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 613 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:

Project Name/Number: Melrose Semi

Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.4

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9012A		Remarks	Lab ID
																				/
W	9/28/11	1028		X	MA02 MW001D		13	X	X	X	X	X	X	X	X	X	X			7
W	9/28/11	1028		X	FD-1		13	X	X	X	X	X	X	X	X	X	X			8
W	9/28/11	1028			TB-2		3	X												9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other ____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
FedEx	[signature]	9-29-11	915
[illegible]			

Note: * 24-hr hold time on CrVI

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only - Client Name	Client #	Workorder #	Due Date
Trinity	4747	211092804	10/7/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Pkwy
Shalimar, FL 32579
Contact: J. Kramer
Phone: 850 618 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.2, 2.7

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (Unfiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALK/TDS	Cyanide (NaOH) 9010A	Remarks	Lab ID
W	9/29	840		X	MWQ-23		13	X	X	X	X	X	X	X	X	X	X		10
W	9/29	1110		X	MA01-MW004		13	X	X	X	X	X	X	X	X	X	X		11
W	9/29	1306		X	MA01-MW002		13	X	X	X	X	X	X	X	X	X	X		12
W	9/29	840			TB-4		3	X											13

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		9/29/11	1500
FedEx	[signature]	9/30/11	0915
7975 5091 2???			

Note: * Hex Chrome 24 hr hold time *

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092806

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~211100105~~ Hold	10/7/11

Report to:
Client: Trinity ADC
Address: 1007 N Kalia Pkwy
Shallowater, TX 79363
Contact: J. Kramer
Phone: 8506186088
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no CS
Temperature °C: ~~1.9~~, 5.7

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) (HNO3)	Metals (Diss) (HNO3)	Perchlorate (Drinking Water)	Perchlorate (Ground Water)	Hex Chrome (Drinking Water)	Hex Chrome (Ground Water)	CL (SO4, NO3/NO2)	ALKALINITY/TDS	Cyanide (NaOH)	Remarks:	Lab ID
																			211100105-	/
W	9/30/11	1000		X	MW114 MW004		15	X	X	X	X	X	X	X	X	X	X	X		1
W	9/30/11	1236		X	MW114 MW001		13	X	X	X	X	X	X	X	X	X	X	X		2
W	9/30/11	1100			TB-5		1	X												3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	9/30/11	1500
FedEx		10/1/11	900
	CS		

Note: * 24-hour hold for Hex Chrome

By submitting these samples, you agree to the terms and

CLIENT COPY

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211092804 Hwk

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	~~211000105~~	10/11/11

Report to:
Client: Trinity ADC
Address: 1002 N. Eglin Parkway
Shalimar, FL 32579
Contact: Jonathan Kramer
Phone: ~~850 613 6800~~ 6800
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose Semi-Annual

Sampled By: Ben Stewart, Jonathan Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3, 5.7

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	8260B (HCL)	Explosives (8330)	Metals (Total) HNO3	Metals (Diss) HNO3	Perchlorate (Filtered)	Perchlorate (UnFiltered)	Hex Chrome (7196A)	CL/SO4/NO3/NO2	ALKT/TDS	Cyanide (AutoCH)	Remarks ~~211000105~~	Lab ID
W	10/3/11	0800		X	EB-1		13	X	X	X	X	X	X	X	X	X	X		4
W	10/3/11	0952		X	M114MW002		13	X	X	X	X	X	X	X	X	X	X		5
W	10/3/11	1146		X	M114MW003		13	X	X	X	X	X	X	X	X	X	X		6
W	10/3/11	0800		X	TB-6		3	X											7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	10/3/11	1400
FedEx 8735 5991 2870		10/4/11	900

Note: * 24-hr hold time on Hex Chrome

By submitting these samples, you agree to the terms and

8/10 H092804T7

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211092804

Client: 4747 - TRINITY Analysis & Development C

Profile: 195817 - Melrose

Line Item: 1 - Waters

Received by: Carstens, Jennifer K.

Received Date/Time: 9/29/2011 9:15:00 AM

Samples Received via: C30

Number of Coolers Received: 9

Cooler tracking numbers(s): 7955 4081 4998, 8735 5991 2991, 8735 5991 2880,

Cooler temperature(s): 5.3, 3.9, 4.7, 4.4, 4.2, 2.7, 5.3, 5.7, 5.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☑ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments: 8768 2160 4454, 8735 5991 2870

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____1610_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius + correction factor 1.6* = 4.5

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Instrument QC Summary
Inorganics Analyses

Login Number: F86441
Account: BBAFLFWB - Trinity Analysis & Development Corp
Project: Melrose Air Force Range, NM

File ID: A100511CN1.CSV Date Analyzed: 10/05/11 Methods: EPA 335.4/SW 9012B
Run ID: GN46650 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN46650-ICV1	Cyanide, Total	0.27	0.010	0.0050	.25	108.0	90-110
GN46650-ICB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN46650-CCV1	Cyanide, Total	0.23	0.010	0.0050	.25	92.0	90-110
GN46650-CCB1	Cyanide, Total	0.0050 U	0.010	0.0050			
GN46650-CCV2	Cyanide, Total	0.23	0.010	0.0050	.25	92.0	90-110
GN46650-CCB2	Cyanide, Total	0.0050 U	0.010	0.0050			

(!) Outside of QC limits

APPENDIX E

Analytical Data Validation (On attached CD)

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Data Validation Report

Melrose AFB Semi-annual

Trinity Analysis & Development Corp

110 04 011

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

□

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Cover Letter

Validation Report Date:

Sample Delivery Group:

Project Name:

Data validation personnel:

Data Deliverables Included:

Approval Signature: Dana Hebert Date: July 22, 2011

INTRODUCTION:

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Sample ID	**Lab ID**	**Collection Date/Time**	**Analyses**
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[illegible]d[illegible]W[illegible]4[illegible]01[illegible]

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

II. Method EPA 300.0 – Sulfate and Chloride

III. Method EPA 353.2 – Nitrate and Nitrite

IV. Method SW-846 9012B – Total Cyanide

V. Method SM 2320B – Total Alkalinity

VI. Method SM 2540C - Total Dissolved Solids

VII. Method SW-846 6860 – Perchlorate

[illegible]

VIII. Method SW-846 7196A – Hexavalent Chromium (total)

[illegible]

IX. Method SW-846 6010C – TAL metals (total)

[illegible]

[illegible]

X. Method SW-846 6010C – TAL metals (dissolved)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

XI. Method SW-846 7470A – Mercury (total)

[illegible]

XII. Method SW-846 7470A – Mercury (dissolved)

[illegible]

Table 1-1

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
[illegible]	MW[illegible]	[illegible]7[illegible]	[illegible]	[illegible]0[illegible]	[illegible]	[illegible]
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Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
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[illegible]	MW[illegible]	4[illegible]0[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
[illegible]	MW[illegible]	4[illegible]7[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
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[illegible]	MW[illegible]	[illegible]4[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
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[illegible]	MW[illegible]	[illegible]4[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
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M[illegible]	MW[illegible]	1[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
M[illegible]	MW[illegible]	[illegible]7[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
M[illegible]	MW[illegible]	[illegible]01[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]
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[illegible]	MW[illegible]	7[illegible]	[illegible]	[illegible]0[illegible]	[illegible]	[illegible]
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[illegible]	MW[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	MW[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	MW[illegible]	0[illegible]000[illegible]	[illegible]	0[illegible]000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0[illegible]000[illegible]	[illegible]	0[illegible]000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0[illegible]000[illegible]	[illegible]	0[illegible]000[illegible]	[illegible]	M[illegible]

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]
[illegible]	MW[illegible]	0.000[illegible]	[illegible]	0.000[illegible]	[illegible]	M[illegible]

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:40 PM**	1	60	5.7	B	60	U	ug/L	*
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**13.5**		**13.5**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:40 PM**	1	5	0.44	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**30200**		**30200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**1.65**	**B**	**1.65**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	10	**10.4**		**10.4**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	100	**33100**		**33100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:40 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	50	**3.84**	**B**	**3.84**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:40 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	1000	**81700**		**81700**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:40 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:40 PM**	**1**	20	**104**		**104**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 2:40 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:11 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-3**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042601D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 9:15 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**27.2**		**27.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**29600**		**29600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**1.15**	**B**	**1.15**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	10	**10.8**		**10.8**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	6.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	100	**32300**		**32300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	50	**4.54**	**B**	**4.54**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	500	**6210**		**6210**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	1000	**80300**		**80300**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 3:17 PM**	**1**	20	**100**		**100**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 3:17 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:46 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:46 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11**		**11**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**50.4**		**50.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:46 PM**	1	5	0.36	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	10	**11.8**		**11.8**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	100	**19400**		**19400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:46 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:46 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:46 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:46 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	1000	**55900**		**55900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:46 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:46 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**79.8**		**79.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:46 PM**	**1**	20	**7.24**	**B**	**7.24**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:14 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-4**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042602D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 10:18 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	60	5.07	B	60	U	ug/L	*
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	10	**46.2**		**46.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	5	0.94	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**42300**		**42300**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	9.83	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2.61	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	100	**19200**		**19200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	500	**3310**		**3310**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	1000	**56400**		**56400**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:32 PM**	**1**	20	**78.8**		**78.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:32 PM**	1	20	7.38	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:52 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.27	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:52 PM**	1	5	0.76	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**42500**		**42500**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	10	**1.48**	**B**	**1.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	9.64	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	100	**23100**		**23100**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:52 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:52 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	1000	**65200**		**65200**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**84.3**		**84.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:52 PM**	**1**	20	**2.88**	**B**	**2.88**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:18 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042603D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	60	4.74	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	7.43	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	10	**30.3**		**30.3**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	5	1.1	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	8.59	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	100	**21600**		**21600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	500	**3240**		**3240**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	1000	**63600**		**63600**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 12:38 PM**	**1**	20	**80.8**		**80.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 12:38 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 2:58 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 2:58 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	7.82	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**34.5**		**34.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 2:58 PM**	1	5	0.78	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**41600**		**41600**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**1.35**	**B**	**1.35**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	10	**10.5**		**10.5**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	4.06	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	100	**22000**		**22000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 2:58 PM**	1	15	2.01	B	15	U	ug/L	*
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 2:58 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	500	**3130**		**3130**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 2:58 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 2:58 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	1000	**64000**		**64000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 2:58 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 2:58 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**81.5**		**81.5**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 2:58 PM**	**1**	20	**2.77**	**B**	**2.77**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:21 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-5-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042604D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 11:57 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	10	**31.1**		**31.1**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**42000**		**42000**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	8.54	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	5.28	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	100	**22300**		**22300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	500	**3180**		**3180**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	1000	**64800**		**64800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:18 PM**	**1**	20	**83.7**		**83.7**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:18 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**10.2**		**10.2**		**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**38.5**		**38.5**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:05 PM**	1	5	0.72	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**40800**		**40800**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	10	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	7.09	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	100	**19700**		**19700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:05 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:05 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	500	**2120**		**2120**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:05 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:05 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**77.7**		**77.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 3:05 PM**	**1**	20	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:24 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042605D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:12 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.16	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	10	**34.6**		**34.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	5	0.96	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**40600**		**40600**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	7.23	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2.42	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	100	**19300**		**19300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	500	**2610**		**2610**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	1000	**57900**		**57900**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:24 PM**	**1**	20	**78.4**		**78.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:24 PM**	1	20	5.61	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 3:11 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 3:11 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	3.8	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	10	**33.7**		**33.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 3:11 PM**	1	5	0.87	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	8.93	B	10	U	ug/L	*
7439-89-6	Iron	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	4.79	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	100	**24500**		**24500**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 3:11 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum	SW-846 6010C	**05/10/2011 3:11 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	500	**2690**		**2690**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 3:11 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 3:11 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	1000	**72000**		**72000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 3:11 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 3:11 PM**	**1**	20	**76.8**		**76.8**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/10/2011 3:11 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 11:30 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-7**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042606D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 1:53 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	60	5.98	B	60	U	ug/L	*
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.35	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**29.5**		**29.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	5	1.35	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**57200**		**57200**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	10	**1.34**	**B**	**1.34**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	8.81	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	3.4	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	100	**24600**		**24600**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	500	**2650**		**2650**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	40	**6.12**	**B**	**6.12**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	1000	**72700**		**72700**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 1:30 PM**	**1**	20	**74.4**		**74.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 1:30 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/10/2011 1:48 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/10/2011 1:48 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	8.34	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**124**		**124**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/10/2011 1:48 PM**	1	5	0.73	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**53600**		**53600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	10	**12.3**		**12.3**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	1.54	B	15	U	ug/L	*
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	100	**40400**		**40400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/10/2011 1:48 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	50	**3.77**	**B**	**3.77**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	500	**5950**		**5950**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/10/2011 1:48 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/10/2011 1:48 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	1000	**21100**		**21100**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/10/2011 1:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/10/2011 1:48 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**68.8**		**68.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/10/2011 1:48 PM**	**1**	20	**3.3**	**B**	**3.3**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/05/2011 10:55 AM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-10**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042607D**

Sample Matrix Code: **W**
Sample Date: **05/03/2011 3:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	7.83	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**123**		**123**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	5	0.86	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**54300**		**54300**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**1.07**	**B**	**1.07**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	10	**12.2**		**12.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2.43	B	15	U	ug/L	*
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	100	**40500**		**40500**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	50	**4.87**	**B**	**4.87**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	500	**6090**		**6090**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	1000	**21500**		**21500**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/10/2011 11:54 AM**	**1**	20	**69.8**		**69.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/10/2011 11:54 AM**	1	20	4.86	B	20	U	ug/L	*
7439-97-6	**Mercury (Dissolved)**	**SW-846 7470A**		**1**	0.2	**0.0921**	**B**	**0.0921**	**B**	**ug/L**	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 8:52 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:52 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 4:05 PM**	**1**	10	**34.3**		**34.3**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:52 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**187000**		**187000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**2.53**	**B**	**2.53**	**B**	**ug/L**
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	10	**23.9**		**23.9**		**ug/L**
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**52.8**	**B**	**52.8**	**B**	**ug/L**
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:52 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	100	**124000**		**124000**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	15	**82.9**		**82.9**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	50	**20.6**	**B**	**20.6**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	40	**1.6**	**B**	**1.6**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	500	**11600**		**11600**		**ug/L**
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:52 PM**	1	40	4.34	U	4.34	U	ug/L
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:52 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:17 PM**	**25**	25000	**2170000**		**2170000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:52 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:52 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**73.5**		**73.5**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:52 PM**	**1**	20	**394**		**394**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/16/2011 1:49 PM**	1	0.2	0.081	U	0.081	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-2**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042611D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 9:26 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**3**	**B**	**3**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**28.2**		**28.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	5	0.49	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**204000**		**204000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**2.25**	**B**	**2.25**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	10	**22.2**		**22.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	100	**135000**		**135000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	15	**50.1**		**50.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	50	**22.6**	**B**	**22.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	1.89	B	40	U	ug/L	*
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	500	**12600**		**12600**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:29 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:27 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**71.6**		**71.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:27 PM**	**1**	20	**426**		**426**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**
Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 4:23 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:23 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:22 PM**	**1**	10	**40.8**		**40.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:23 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**37300**		**37300**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	7.72	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**147**		**147**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:23 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	100	**16200**		**16200**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	15	**426**		**426**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	50	**11.1**	**B**	**11.1**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	500	**3260**		**3260**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:23 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:23 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	1000	**315000**		**315000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:23 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:23 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**29.4**		**29.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:23 PM**	**1**	20	**7.64**	**B**	**7.64**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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B = Estimated (between MDL and RL)
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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-22**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042612D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 11:01 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	10	**37.6**		**37.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**38500**		**38500**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolved	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	6.97	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**142**		**142**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	100	**17400**		**17400**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	15	**440**		**440**		**ug/L**	
7439-98-7	**Molybdenum (Dissolved**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	50	**12**	**B**	**12**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	500	**3340**		**3340**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	40	**5**	**B**	**5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	1000	**319000**		**319000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:49 PM**	**1**	20	**32.2**		**32.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:49 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	200	**1100**		**1100**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:30 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	6.1	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:30 PM**	**1**	10	**48.9**		**48.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:30 PM**	1	5	0.51	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**122000**		**122000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**4.41**	**B**	**4.41**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	10	**15**		**15**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**669**		**669**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:30 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**57600**		**57600**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	15	**19.9**		**19.9**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	50	**9.63**	**B**	**9.63**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**1.27**	**B**	**1.27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	40	**11**	**B**	**11**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:30 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	1000	**184000**		**184000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:30 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	100	**10.6**	**B**	**10.6**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**99.7**		**99.7**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:30 PM**	**1**	20	**15.6**	**B**	**15.6**	**B**	**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:43 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-21**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042613D**

Sample Matrix Code: **W**
Sample Date: **05/11/2011 1:05 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	200	**272**		**272**		**ug/L**	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**9.41**	**B**	**9.41**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**32.6**		**32.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**120000**		**120000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**1.95**	**B**	**1.95**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**127**		**127**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**57700**		**57700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	50	**9.72**	**B**	**9.72**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	500	**9970**		**9970**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	40	**9.9**	**B**	**9.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	1000	**181000**		**181000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	100	**5.29**	**B**	**5.29**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:57 PM**	**1**	20	**98.8**		**98.8**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:57 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	200	**72.4**	**B**	**72.4**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:37 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:37 PM**	**1**	10	**26**		**26**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:37 PM**	1	5	1.11	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**286000**		**286000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**2.38**	**B**	**2.38**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	10	**20.1**		**20.1**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**2820**		**2820**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:37 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	15	**436**		**436**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/24/2011 4:37 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:37 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:37 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:14 AM**	**5**	5000	**1100000**		**1100000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:37 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:37 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**64.3**		**64.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:37 PM**	**1**	20	**865**		**865**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:49 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-19**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042614D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 9:50 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**3.75**	**B**	**3.75**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	5	1.27	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**285000**		**285000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**2.18**	**B**	**2.18**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	10	**18**		**18**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**2590**		**2590**		**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	100	**188000**		**188000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	15	**432**		**432**		**ug/L**	
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	500	**10400**		**10400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:48 PM**	**5**	5000	**1110000**		**1110000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:04 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**64.6**		**64.6**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:04 PM**	**1**	20	**615**		**615**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	200	**153**	**B**	**153**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 4:44 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	6.33	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:34 PM**	**1**	10	**35.6**		**35.6**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:44 PM**	1	5	0.65	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**41200**		**41200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**15.9**		**15.9**		**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	10	**814**		**814**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**168**		**168**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	15	**1.79**	**B**	**1.79**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	100	**18700**		**18700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 4:44 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	40	**6.94**	**B**	**6.94**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	500	**2770**		**2770**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:44 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:44 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	1000	**65500**		**65500**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:44 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 4:44 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**78.6**		**78.6**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:44 PM**	**1**	20	**52.4**		**52.4**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-18**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042615D**

Sample Matrix Code: **W**
Sample Date: **05/12/2011 12:40 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**7.34**	**B**	**7.34**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**33.8**		**33.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	5	1.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**44400**		**44400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolved	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	10	**554**		**554**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	100	**20200**		**20200**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	15	9.28	B	15	U	ug/L	*
7439-98-7	**Molybdenum (Dissolved**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	50	**11.6**	**B**	**11.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	500	**2870**		**2870**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	1000	**68800**		**68800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:38 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**79.9**		**79.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:38 PM**	**1**	20	**38.2**		**38.2**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	200	**60.6**	**B**	**60.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 3:20 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 2:13 PM**	**1**	10	**15.3**		**15.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 3:20 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**65900**		**65900**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**2.31**	**B**	**2.31**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	10	**16.1**		**16.1**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	100	**61800**		**61800**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 3:20 PM**	1	15	13.8	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	50	**25.4**	**B**	**25.4**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**1.18**	**B**	**1.18**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	500	**11400**		**11400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	40	**26.3**	**B**	**26.3**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 3:20 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 11:38 PM**	**5**	5000	**628000**		**628000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 3:20 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 3:20 PM**	**1**	20	**59**		**59**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 3:20 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:24 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-14**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042616D**

Sample Matrix Code: **W**
Sample Date: **05/13/2011 12:31 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	200	60	U	60	U	ug/L
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**3.99**	**B**	**3.99**	**B**	**ug/L**
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**11.9**		**11.9**		**ug/L**
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**66700**		**66700**		**ug/L**
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**1.98**	**B**	**1.98**	**B**	**ug/L**
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	10	**14.5**		**14.5**		**ug/L**
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	40	U	40	U	ug/L
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	100	**62400**		**62400**		**ug/L**
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	15	2	U	2	U	ug/L
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	50	**26**	**B**	**26**	**B**	**ug/L**
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	500	**11400**		**11400**		**ug/L**
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	40	**23.3**	**B**	**23.3**	**B**	**ug/L**
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:13 PM**	**5**	5000	**633000**		**633000**		**ug/L**
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	100	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 1:15 PM**	**1**	20	**58.1**		**58.1**		**ug/L**
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 1:15 PM**	1	20	2.72	U	2.72	U	ug/L
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L

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J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	200	**261**		**261**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	60	**20.3**	**B**	**20.3**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:43 PM**	**1**	10	**26.3**		**26.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:51 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**556000**		**556000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**3.38**	**B**	**3.38**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**1.23**	**B**	**1.23**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	10	**23.2**		**23.2**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**241**		**241**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:51 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**311000**		**311000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	15	**967**		**967**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	50	**17**	**B**	**17**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	500	**16200**		**16200**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:51 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:51 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:21 AM**	**25**	25000	**2970000**		**2970000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:51 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	100	**1.42**	**B**	**1.42**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**64**		**64**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:51 PM**	**1**	20	**2370**		**2370**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:56 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105042620D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	60	**6**	**B**	**6**	**B**	**ug/L**	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.5**		**21.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	5	2.01	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**544000**		**544000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**2.58**	**B**	**2.58**	**B**	**ug/L**	
7440-48-4	**Cobalt (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**1.1**	**B**	**1.1**	**B**	**ug/L**	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	10	**21.3**		**21.3**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**71.1**	**B**	**71.1**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	100	**306000**		**306000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	15	**934**		**934**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	50	**16.4**	**B**	**16.4**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	500	**15700**		**15700**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 10:56 PM**	**25**	25000	**2780000**		**2780000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:45 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**64.1**		**64.1**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:45 PM**	**1**	20	**2190**		**2190**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	200	**285**		**285**		**ug/L**	
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	60	**4.8**	**B**	**4.8**	**B**	**ug/L**	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/27/2011 5:50 PM**	**1**	10	**27.4**		**27.4**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 4:57 PM**	1	5	1.93	B	5	U	ug/L	*
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**574000**		**574000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**3.42**	**B**	**3.42**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**1.12**	**B**	**1.12**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**271**		**271**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 4:57 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**321000**		**321000**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	15	**994**		**994**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	50	**17.3**	**B**	**17.3**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	500	**16800**		**16800**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 4:57 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 4:57 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 12:28 AM**	**25**	25000	**3050000**		**3050000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 4:57 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	100	**1.73**	**B**	**1.73**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**63.4**		**63.4**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 4:57 PM**	**1**	20	**2410**		**2410**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:59 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWQ-20-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105042621D**

Sample Matrix Code: **W**
Sample Date: **05/17/2011 1:22 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	60	**4.33**	**B**	**4.33**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**21.8**		**21.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	5	2.08	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**554000**		**554000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**2.35**	**B**	**2.35**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	10	**19.9**		**19.9**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**66.2**	**B**	**66.2**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	100	**312000**		**312000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	15	**955**		**955**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	50	**16.6**	**B**	**16.6**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	500	**16000**		**16000**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 11:04 PM**	**25**	25000	**2850000**		**2850000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 2:52 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**64.2**		**64.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 2:52 PM**	**1**	20	**2240**		**2240**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	200	**69.7**	**B**	**69.7**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/26/2011 6:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	5.89	B	10	U	ug/L	*
7440-39-3	**Barium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**24.1**		**24.1**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/31/2011 3:55 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/26/2011 6:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**2.02**	**B**	**2.02**	**B**	**ug/L**	
7440-48-4	**Cobalt**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**1.74**	**B**	**1.74**	**B**	**ug/L**	
7440-50-8	**Copper**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**7450**		**7450**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**2.5**	**B**	**2.5**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	100	**33800**		**33800**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	15	**265**		**265**		**ug/L**	
7439-98-7	Molybdenum	SW-846 6010C	**05/26/2011 6:12 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**1.09**	**B**	**1.09**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	500	**5470**		**5470**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	40	**9.06**	**B**	**9.06**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/26/2011 6:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	1000	**69600**		**69600**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/31/2011 3:55 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/26/2011 6:12 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/26/2011 6:12 PM**	**1**	20	**69.9**		**69.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/31/2011 3:55 PM**	**1**	20	**93.6**		**93.6**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/26/2011 6:13 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Semi-Annual
SDG: 11050426

COC Sample ID: **MWL6**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105190401D**

Sample Matrix Code: **W**
Sample Date: **05/18/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**3.95**	**B**	**3.95**	**B**	**ug/L**	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	10	**20.8**		**20.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**69200**		**69200**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	9.01	B	10	U	ug/L	*
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**566**		**566**		**ug/L**	
7439-92-1	**Lead (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**1.9**	**B**	**1.9**	**B**	**ug/L**	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	100	**33700**		**33700**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	15	**158**		**158**	**J**	**ug/L**	*
7439-98-7	Molybdenum (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	50	3.75	U	3.75	U	ug/L	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	500	**5560**		**5560**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	40	**8.02**	**B**	**8.02**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	1000	**67800**		**67800**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/31/2011 2:48 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	100	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/26/2011 4:50 PM**	**1**	20	**59.3**		**59.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/26/2011 4:50 PM**	1	20	4.65	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A		1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105190401**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	5	107		107		mg/L	
Sulfate	**05/18/2011 2:30 PM**	**05/20/2011 1:01 AM**	50	10	216		216		mg/L	
Method: EPA 353.2										
Nitrate	**05/18/2011 2:30 PM**	**05/19/2011 4:20 PM**	1	0.01	0.408		0.408		mg/L-	
Nitrite	**05/18/2011 2:30 PM**	**05/19/2011 3:25 PM**	1	0.01	0.013		0.013		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/18/2011 2:30 PM**	**05/20/2011 7:23 AM**	1	1	129		129		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/18/2011 2:30 PM**	**05/19/2011 2:10 PM**	1	10	658		658		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/18/2011 2:30 PM**	**05/19/2011 10:09 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/18/2011 2:30 PM**	**05/23/2011 11:14 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWL6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-16A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/18/2011 2:30 PM**	**05/31/2011 12:17 PM**	1	0.000594	0.00994	N	0.00994		mg/L	*

DF = Dilution Factor
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-2** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042611**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	100	3310		3310		mg/L	
Sulfate	**05/05/2011 9:26 AM**	**05/10/2011 11:42 PM**	1000	200	1350		1350		mg/L	
Method: EPA 353.2										
Nitrate	**05/05/2011 9:26 AM**	**05/06/2011 3:28 PM**	1	0.01	0.244		0.244		mg/L-	
Nitrite	**05/05/2011 9:26 AM**	**05/06/2011 4:06 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/05/2011 9:26 AM**	**05/09/2011 11:15 AM**	1	1	83.1		83.1		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/05/2011 9:26 AM**	**05/06/2011 1:15 PM**	1	10	7120		7120		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/05/2011 9:26 AM**	**05/06/2011 9:36 AM**	1	10	3	B	3	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/05/2011 9:26 AM**	**05/13/2011 4:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-2**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-08A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/05/2011 9:26 AM**	**05/27/2011 1:54 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
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J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-3** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042601**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	5	68.3		68.3		mg/L	
Sulfate	**05/03/2011 9:15 AM**	**05/10/2011 5:14 PM**	50	10	150		150		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 9:15 AM**	**05/04/2011 2:51 PM**	1	0.01	0.738		0.738		mg/L-	
Nitrite	**05/03/2011 9:15 AM**	**05/04/2011 3:44 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 9:15 AM**	**05/04/2011 3:38 PM**	1	1	145		145		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 9:15 AM**	**05/04/2011 2:40 PM**	1	10	430		430		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 9:15 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 9:15 AM**	**05/06/2011 2:06 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-3**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-01A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 9:15 AM**	**05/27/2011 12:07 PM**	1	0.0003	0.00731	N	0.00731		mg/L	*

DF = Dilution Factor
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B = Estimated (between MDL and RL)
J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-4** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042602**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	1	17.6		17.6		mg/L	
Sulfate	**05/03/2011 10:18 AM**	**05/10/2011 5:32 PM**	10	2	59		59		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 10:18 AM**	**05/04/2011 3:14 PM**	5	0.05	3.43		3.43		mg/L-	
Nitrite	**05/03/2011 10:18 AM**	**05/04/2011 3:45 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 10:18 AM**	**05/04/2011 3:38 PM**	1	1	177		177		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 10:18 AM**	**05/04/2011 2:40 PM**	1	10	300		300		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 10:18 AM**	**05/04/2011 2:16 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 10:18 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-4**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-02A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 10:18 AM**	**05/27/2011 12:25 PM**	1	0.0003	0.00308	N	0.00308		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
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J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-5** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042603**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	2	21.8		21.8		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 5:49 PM**	20	4	90.8		90.8		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:18 PM**	10	0.1	5.53		5.53		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:46 PM**	1	0.01	0.004	B	0.004	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	175		175		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	374		374		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:07 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-03A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 12:43 PM**	1	0.0003	0.003	N	0.003		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
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J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042604**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	2	21.5		21.5		mg/L	
Sulfate	**05/03/2011 11:57 AM**	**05/10/2011 6:07 PM**	20	4	91.5		91.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 11:57 AM**	**05/04/2011 3:19 PM**	10	0.1	5.19		5.19		mg/L-	
Nitrite	**05/03/2011 11:57 AM**	**05/04/2011 3:48 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 11:57 AM**	**05/04/2011 3:38 PM**	1	1	170		170		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 11:57 AM**	**05/04/2011 2:40 PM**	1	10	380		380		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 11:57 AM**	**05/04/2011 2:18 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 11:57 AM**	**05/06/2011 2:09 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-5-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-04A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 11:57 AM**	**05/27/2011 1:00 PM**	1	0.0003	0.00306	N	0.00306		mg/L	*

DF = Dilution Factor
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eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-6** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042605**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	2	21.4		21.4		mg/L	
Sulfate	**05/03/2011 1:12 PM**	**05/10/2011 6:24 PM**	20	4	85.5		85.5		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:12 PM**	**05/04/2011 3:20 PM**	5	0.05	3.39		3.39		mg/L-	
Nitrite	**05/03/2011 1:12 PM**	**05/04/2011 3:49 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:12 PM**	**05/04/2011 3:38 PM**	1	1	160		160		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:12 PM**	**05/04/2011 2:40 PM**	1	10	352		352		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:12 PM**	**05/04/2011 2:15 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:12 PM**	**05/06/2011 2:10 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-6**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-05A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:12 PM**	**05/27/2011 1:18 PM**	1	0.0003	0.00398	N	0.00398		mg/L	*

DF = Dilution Factor
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J = Estimated
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-7** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042606**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	5	59.3		59.3		mg/L	
Sulfate	**05/03/2011 1:53 PM**	**05/10/2011 7:17 PM**	50	10	156		156		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 1:53 PM**	**05/04/2011 3:21 PM**	2	0.02	1.31		1.31		mg/L-	
Nitrite	**05/03/2011 1:53 PM**	**05/04/2011 3:50 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 1:53 PM**	**05/04/2011 3:38 PM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 1:53 PM**	**05/04/2011 2:40 PM**	1	10	480		480		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 1:53 PM**	**05/04/2011 2:19 PM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 1:53 PM**	**05/06/2011 2:11 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-7**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-06A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 1:53 PM**	**05/27/2011 1:36 PM**	1	0.0003	0.00584	N	0.00584		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-10** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042607**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	2	29.3		29.3		mg/L	
Sulfate	**05/03/2011 3:23 PM**	**05/10/2011 7:35 PM**	20	4	60.6		60.6		mg/L	
Method: EPA 353.2										
Nitrate	**05/03/2011 3:23 PM**	**05/04/2011 3:23 PM**	20	0.2	7.07		7.07		mg/L-	
Nitrite	**05/03/2011 3:23 PM**	**05/04/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	216		216		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	390		390		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/03/2011 3:23 PM**	**05/04/2011 2:13 PM**	1	10	5	B	5	B	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/03/2011 3:23 PM**	**05/06/2011 2:14 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-07A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/03/2011 3:23 PM**	**05/26/2011 8:53 PM**	1	0.0003	0.00053	N	0.00053		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-10-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042610**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/03/2011 3:23 PM**	**05/04/2011 3:38 PM**	1	1	220		220		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/03/2011 3:23 PM**	**05/04/2011 2:40 PM**	1	10	388		388		mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042616**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	50	715		715		mg/L	
Sulfate	**05/13/2011 12:31 PM**	**05/16/2011 9:38 PM**	500	100	994		994		mg/L	
Method: EPA 353.2										
Nitrate	**05/13/2011 12:31 PM**	**05/14/2011 10:31 AM**	5	0.05	1.59		1.59		mg/L-	
Nitrite	**05/13/2011 12:31 PM**	**05/14/2011 10:46 AM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	133		133		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2670		2670		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/13/2011 12:31 PM**	**05/14/2011 10:40 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/13/2011 12:31 PM**	**05/23/2011 10:59 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-14**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-13A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:31 PM**	**05/31/2011 12:52 PM**	1	0.0003	0.00452	N	0.00452		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ14-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Lab Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042619**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SM 2320 B									
Total Alkalinity	**05/13/2011 12:31 PM**	**05/16/2011 1:32 PM**	1	1	137		137		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/13/2011 12:31 PM**	**05/16/2011 12:50 PM**	1	10	2590		2590		mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-18** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042615**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	5	40.3		40.3		mg/L	
Sulfate	**05/12/2011 12:40 PM**	**05/16/2011 9:55 PM**	50	10	110		110		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 12:40 PM**	**05/13/2011 12:05 PM**	1	0.01	0.372		0.372		mg/L-	
Nitrite	**05/12/2011 12:40 PM**	**05/13/2011 12:24 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 12:40 PM**	**05/16/2011 1:32 PM**	1	1	161		161		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 12:40 PM**	**05/16/2011 12:50 PM**	1	10	520		520		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 12:40 PM**	**05/13/2011 11:05 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 12:40 PM**	**05/23/2011 10:58 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-18**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-12A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/13/2011 12:40 PM**	**05/31/2011 11:24 AM**	1	0.000594	0.0108	N	0.0108		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-19** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042614**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	100	2050		2050		mg/L	
Sulfate	**05/12/2011 9:50 AM**	**05/16/2011 8:45 PM**	1000	200	1530		1530		mg/L	
Method: EPA 353.2										
Nitrate	**05/12/2011 9:50 AM**	**05/13/2011 12:02 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/12/2011 9:50 AM**	**05/13/2011 12:20 PM**	1	0.01	0.007	B	0.007	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/12/2011 9:50 AM**	**05/16/2011 1:32 PM**	1	1	302		302		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/12/2011 9:50 AM**	**05/16/2011 12:50 PM**	1	10	5500		5500		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/12/2011 9:50 AM**	**05/13/2011 11:04 AM**	1	10	2.8	U	2.8	UJ	ug/L	*
Method: SW-846 9012A										
Total Cyanide	**05/12/2011 9:50 AM**	**05/23/2011 10:57 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-19**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-11A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/12/2011 9:05 AM**	**05/27/2011 2:47 PM**	1	0.000594	0.000594	U	0.000594	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-20** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042620**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	200	6010		6010		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/19/2011 11:50 PM**	2000	400	1630		1630		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:19 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:34 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	55.7		55.7		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	11900		11900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:16 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:12 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-14A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:42 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-20-DUP** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Field Duplicate** | Lab Code: **GCAL**
Lab Sample ID: **21105042621**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	200	6090		6090		mg/L	
Sulfate	**05/17/2011 1:22 PM**	**05/20/2011 12:43 AM**	2000	400	1480		1480		mg/L	
Method: EPA 353.2										
Nitrate	**05/17/2011 1:22 PM**	**05/18/2011 4:23 PM**	1	0.01	0.003	U	0.003	U	mg/L-	
Nitrite	**05/17/2011 1:22 PM**	**05/18/2011 3:37 PM**	1	0.01	0.006	B	0.006	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/17/2011 1:22 PM**	**05/18/2011 2:07 PM**	1	1	56.9		56.9		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/17/2011 1:22 PM**	**05/20/2011 2:10 PM**	1	10	12000		12000		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/17/2011 1:22 PM**	**05/18/2011 10:17 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/17/2011 1:22 PM**	**05/23/2011 11:13 AM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-20-DUP**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Field Duplicate**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-15A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: SW6860									
Perchlorate	**05/17/2011 1:22 PM**	**05/31/2011 11:59 AM**	1	0.00149	0.00149	U	0.00149	U	mg/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name: **MWQ-21** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105042613**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	10	121		121		mg/L	
Sulfate	**05/11/2011 1:05 PM**	**05/12/2011 7:04 PM**	100	20	476		476		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 1:05 PM**	**05/12/2011 4:08 PM**	5	0.05	2.44		2.44		mg/L-	
Nitrite	**05/11/2011 1:05 PM**	**05/12/2011 4:22 PM**	1	0.01	0.008	B	0.008	B	mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 1:05 PM**	**05/12/2011 10:43 AM**	1	1	244		244		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 1:05 PM**	**05/12/2011 3:30 PM**	1	10	900		900		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 1:05 PM**	**05/12/2011 10:40 AM**	1	10	32		32		ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 1:05 PM**	**05/13/2011 4:31 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-21**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-10A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 1:05 PM**	**05/27/2011 2:29 PM**	1	0.0003	0.00827	N	0.00827		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105042612**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	20	342		342		mg/L	
Sulfate	**05/11/2011 11:01 AM**	**05/12/2011 6:29 PM**	200	40	233		233		mg/L	
Method: EPA 353.2										
Nitrate	**05/11/2011 11:01 AM**	**05/12/2011 4:01 PM**	1	0.01	0.309		0.309		mg/L-	
Nitrite	**05/11/2011 11:01 AM**	**05/12/2011 4:18 PM**	1	0.01	0.011		0.011		mg/L-	
Method: SM 2320 B										
Total Alkalinity	**05/11/2011 11:01 AM**	**05/12/2011 10:43 AM**	1	1	147		147		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/11/2011 11:01 AM**	**05/12/2011 3:30 PM**	1	10	936		936		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/11/2011 11:01 AM**	**05/12/2011 10:39 AM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/11/2011 11:01 AM**	**05/13/2011 4:30 PM**	1	0.005	0.0006	U	0.0006	UJ	mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Semi-Annual

SDG: 11050426

Sample Name:	**MWQ-22**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**1105192-09A**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: SW6860										
Perchlorate	**05/11/2011 11:01 AM**	**05/27/2011 2:11 PM**	1	0.0003	0.00148	N	0.00148		mg/L	*

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

eDATApro Environmental Data Professional, LLC

Appendix II
Chain of Custody

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	9747	2405926	5-Mar

Report to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

Bill to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 1.7 2.4 1.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
									/
									1
									2
									3
									4
									5
									6
									7
									8 DUP
									9 10

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Felix	Received by: (Signature)	Date: 3-4-05	Time: 8:45
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4347	[illegible]	5-13-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite 2
Ft Walton Beach, FL 32549
Contact: J. Kramer
Phone: 850-243-0072
Fax: 850-243-0045

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 31 38

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Explosives	CrVI	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3 /NO2	ALKTTS	VOC (HCL)	Dissolved Metals (HNO3)	Remarks:	Lab ID
SW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X	* ii	1
GW	5/5/11	1223		✓	MA02 MW001D		12	X	X	X	X	X	X	X	X	X		2
GW	5/5/11	1516		✓	M114 MW004		12	X	X	X	X	X	X	X	X	X		3
	5/5/11	926			TB1		3											4
	5/5/11	926			TB2		3											5

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ~~☐~~ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	5/5/11	1555
Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Date: 5/6/11	Time: 0900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
* Sample was the website ww

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix1: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/11/11

Report to:
Client: Trinity ADV
Address: 90 NW Beal Pkwy Suite A2
Fort Walton Beach, FL 32548
Contact: S. Kramer
Phone: 8502430072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.1

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide (NaOH)	Perchlorate	CrVI	ALK / TS	Cl/SO4/NO3/NO2	Remarks:	Lab ID
GW	5/11/11	1101		X	MWQ22		7	X	X	X	X	X	X	X	12	
GW	5/11/11	1305		X	MWQ21		7	X	X	X	X	X	X	X	13	

Turn Around Time: ☐ 24/48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	5/11/11	1600
FedEx		5/12/11	0855

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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LAB COPY

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Trinity	4747	2110504126	5/20/11
Client Name	Client #	Workorder #	Due Date

Report to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

Bill to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

P.O. Number

Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:

Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Lab ID	Remarks:
								/	14
									15

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex		05/13/11	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

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DLG 05/13/2011

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	211050426	5/20/11

Report to:
Client:
Address:
Contact:
Phone:
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number

Project Name/Number

Sampled By:

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.4

Lab ID

Remarks:
16
17 * Dup
18 * 19

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedX		
Relinquished by: (Signature) FedX	Received by: (Signature) ACM	Date: 5/14/11	Time: 0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * no Cl/SO4 MS/MSD batch QC on sample MWQ18

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) [illegible]

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GCAL-06 11/98

211050426

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only | Client Name: Trinity | Client #: 4747 | Workorder #: 2110504426 | Due Date: 5/20/11

Report to:

Client: _____
Address: _____
Contact: _____
Phone: _____
Fax: _____

Bill to:

Client: _____
Address: _____
Contact: _____
Phone: _____
Fax: _____

P.O. Number | Project Name/Number

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Lab ID

Remarks:
RSM 5/14/11 19 20 ~~20~~ 21

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed Ex		
Fed Ex		5/18/11	0845

Note:

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GCAL-06 11/98

GCS 07-00272

GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4747	2110584 26	

Report to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

Bill to:

Client: _____
Address: _____
_____
Contact: _____
Phone: _____
Fax: _____

P.O. Number | **Project Name/Number**

Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 4.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
								2110519040 1	/
								2X22 RSM 6/14/11	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex		
Fedex		5/19/11	0855

Note:

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Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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TCG Signature

Data Validation Report

Melrose AFB Annual

Trinity Analysis & Development Corp

Environmental Data Professional, LLC
602 West Prien Lake Rd. PMB# 157 • Lake Charles, LA 70601 • phone: 337-540-0036 • fax: 337-478-6061

Disclaimer:

□

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Cover Letter

Validation Report Date:

Sample Delivery Group:

Project Name:

Data validation personnel:

Data Deliverables Included:

Approval Signature: _____ Date: July 21, 2011

INTRODUCTION:

□□□ □□110□0□0□□

[illegible]

USEPA National Functional Guidelines for Organic Data Review, USEPA National Functional Guidelines for Inorganic Data Review

Sample ID	Lab ID	Collection Date/Time	Analyses
M□0□MW001□□	□110□0□0□01□	□□□□011□1□□□□00□□M□	□1□14□□
M114MW004□	□110□0□0□0□□	□□□□011□□□1□00□□M□	□1□14□□
□□1□	□110□0□0□0□□	□□□□011□□□□□00□□M□	□1□□
□□□□	□110□0□0□04□	□□□□011□□□□□00□□M□	□1□□
M114MW00□□	□110□0□0□0□□	□□□□011□11□□□00□□M□	□1□14□□
□□1□	□110□0□0□0□□	□□□□011□1□□□0□00□□M□	□1□14□□
M114MW00□□	□110□0□0□07□	□□□□011□□□□0□00□□M□	□1□14□□
□□4□	□110□0□0□0□□	□□□□011□	□1□□
□□□□	□110□0□0□0□□	□□□□011□	□1□□
M□01MW001□	□110□0□0□10□	□□□□011□□□1□□00□□M□	□1□14□□
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M114MW001□	□110□0□0□1□□	□□□□011□□□□□00□□M□	□1□14□□
M114MW001□□□□□	□110□0□0□1□□	□□□□011□□□□□00□□M□	□1□14□□
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M□0MW004□	□110□0□0□1□□	□□10□□011□11□11□00□□M□	□1□14□□
M□0MW00□□	□110□0□0□1□□	□□10□□011□1□□0□00□□M□	□1□14□□
□□7□	□110□0□0□□0□	□□10□□011□	□1□□
M□01MW00□□	□110□170□01□	□□1□□□011□□□□□00□□M□	□1□14□□
MW□□□□	□110□170□0□□	□□1□□□011□11□10□00□□M□	□1□14□□
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[illegible]

□1 □□ W□4□□□0□□
□□ W□4□□□0□
□□ □00□0□
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□7 □□ M□□□0□□
□□ M□□40□□
□□ W□4□71□□□□

□10□□□□□M□□□□□

DATA VALIDATION FINDINGS SUMMARY

I. General Package:

II. Method SW-846 8260B - Volatile Organic Analyses:

III. Method SW-846 8330 - Explosives

IV. Method EPA 300.0 – Sulfate and Chloride

[illegible]

V. Method EPA 353.2 – Nitrate and Nitrite

[illegible]

VI. Method SW-846 9012B – Total Cyanide

[illegible]

VII. Method SM 2320B – Total Alkalinity

[illegible]

VIII. Method SM 2540C - Total Dissolved Solids

[illegible]

IX. Method SW-846 7196A – Hexavalent Chromium

[illegible]

X. Method SW-846 6010C – TAL metals (total)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

XI. Method SW-846 6010C – TAL metals (dissolved)

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

XII. Method SW-846 7470A – Mercury (total)

[illegible]

XIII. Method SW-846 7470A – Mercury (dissolved)

[illegible]

XIV. Method SW-846 6860 – Perchlorate

[illegible]

[illegible] M114MW0[illegible]MW001[illegible] M114MW004[illegible] M114MW00[illegible] M114MW00[illegible] M114MW001[illegible] [illegible] M114MW001[illegible] [illegible]

[illegible]

Table 1-1

□

SUMMARY OF QUALIFIED DATA

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
□□□□□□□	□□1□	□□4	□□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
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□□□□□□□	M114MW001□□□□□	0□□□	□□	0□□□	□□	□□□r□□□□r□□□□ □ □□□□d□rd□
□□□□□□□	M□0MW00□□	7□4	□	7□4	□□	□□□r□□□□r□□□□ □ □□□□d□rd□
□□□□□□□	M□0MW004□	17□	□	17□	□□	□□□r□□□□r□□□□ □ □□□□d□rd□
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□M□□	□□1□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M114MW001□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M114MW001□□□□□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
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□M□□	M114MW004□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M□01MW001□	0□0□7	□□	0□0□7	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M□01MW00□□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M□0□MW001□□	0□07	□□	0□07	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M□0MW00□□	0□0□7	□□	0□0□7	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	M□0MW004□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□M□□	MW□□□□	0□0□□	□□	0□0□□	□□	□□□r□□□□r□□□□□ □□□□ □□ □
□□□ □□□ □□ □□□□□d□	M114MW001□	77□	□□	□00	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□□□ □□□ □□ □□□□□d□	M114MW00□□	□7□	□□	□00	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□□□ □□□ □□ □□□□□d□	M□01MW001□	10□	□□	□00	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□□□ □□□ □□ □□□□□d□	M□01MW00□□	1□4	□□	□00	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□r□□□□□ □□□□□d□	M114MW001□	□74	□□	10	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□r□□□□□ □□□□□d□	M114MW004□	4□01	□□	10	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□r□□□□□ □□□□□d□	M□0□MW001□□	□□□	□□	10	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□□r□□ □□ □□□□□d□	□□1□	□□□	□□	10	□□	M□□□d□□□□□□□□□□ □□□□□□ □□□□□□□□ □□□□□□
□□d□ □□ □□ □□□□□d□	□□1□	0□□	□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
□□d□ □□ □□ □□□□□d□	M114MW001□	0□□	□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
□□d□ □□ □□ □□□□□d□	M114MW001□□□□□	0□□	□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
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□□d□ □□ □□ □□□□□d□	M114MW00□□	0□1	□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
□□d□ □□ □□ □□□□□d□	M114MW004□	0□	□□	□	□□	M□□□d□□□□□□□□□□ □□□□□□
□□□□□r□	MW□□□□	4□□	□□	10	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
□□□□□r□□ □□□□□d□	MW□□□□	□4□	□□	10	□□	□□□□□ □□□r□□□□□□□□□□ □□□□□□
M□□□□□□□□	□□1□	□4□	□□	1□	□□	M□□□d□□□□□□□□□□ □□□□□□
M□□□□□□□□	M114MW001□	4□1	□□	1□	□□	M□□□d□□□□□□□□□□ □□□□□□

Target Compound	Sample(s) Affected	Lab Result	Lab Qual	Val Result	Val Qual	Reason for Qualification
M	M114MW001	4		1		M d
M	M114MW00			1		M d
M	M114MW00	7		1		M d
M	M114MW004	7		1		M d
M	M 01MW001	1		1		M d
M	M 0MW00	7 4		1		M d
M	M 0MW004			1		M d
	M114MW00	17		0		r
	M 01MW001	74		0		r
	M 0MW00	1 4		0		r
d	M114MW00	14		0		r
d	M 0MW00	4 1		0		r
d	M 0MW004			0		r
r	M 01MW001	0 004		0 01		M d

Table 1-2

DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Appendix I
Form 1 Data (Qualified)

Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.278	U	0.278	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.504	U	0.504	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	2	0.606	U	0.606	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.25	U	0.25	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.178	U	0.178	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.214	U	0.214	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.216	U	0.216	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.232	U	0.232	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.07	U	0.07	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.272	U	0.272	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:11 AM**	1	0.4	0.132	U	0.132	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:11 AM**	1	1	0.4	U	0.4	U	ug/L	

DF = Dilution Factor
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RL = Reporting Limit
U = Non-Detect
J = Estimated
D = Results are from a dilution
* = Modified by Validation
R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 7:58 AM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 7:58 AM**	1	0.51	0.204	U	0.204	U	ug/L	

DF = Dilution Factor
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J = Estimated
D = Results are from a dilution
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **05/06/2011 11:35 AM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.154	U	0.154	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.28	U	0.28	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	1.11	0.337	U	0.337	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.139	U	0.139	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.099	U	0.099	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.119	U	0.119	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.12	U	0.12	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.129	U	0.129	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.039	U	0.039	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.151	U	0.151	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 8:45 AM**	1	0.222	0.073	U	0.073	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 8:45 AM**	1	0.556	0.222	U	0.222	U	ug/L	

DF = Dilution Factor
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U = Non-Detect
J = Estimated
D = Results are from a dilution
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R = Rejected

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 2:44 AM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 2:44 AM**	1	0.515	0.206	U	0.206	U	ug/L	

DF = Dilution Factor
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J = Estimated
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/13/2011 3:31 AM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/13/2011 3:31 AM**	1	0.526	0.211	U	0.211	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.14	U	0.14	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.255	U	0.255	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	1.01	0.306	U	0.306	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.126	U	0.126	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.09	U	0.09	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.108	U	0.108	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.109	U	0.109	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.117	U	0.117	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.035	U	0.035	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.137	U	0.137	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 1:26 PM**	1	0.202	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 1:26 PM**	1	0.505	0.202	U	0.202	U	ug/L	

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U = Non-Detect
J = Estimated
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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 2:13 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 2:13 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **05/10/2011 11:11 AM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.143	U	0.143	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.26	U	0.26	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	1.03	0.312	U	0.312	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.129	U	0.129	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.092	U	0.092	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.11	U	0.11	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.111	U	0.111	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.12	U	0.12	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.14	U	0.14	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 3:47 PM**	1	0.206	0.068	U	0.068	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 3:47 PM**	1	0.515	0.206	U	0.206	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.146	U	0.146	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.265	U	0.265	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	1.05	0.319	U	0.319	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.132	U	0.132	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.094	U	0.094	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.113	U	0.113	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.114	U	0.114	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.122	U	0.122	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.037	U	0.037	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.143	U	0.143	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/12/2011 4:34 PM**	1	0.211	0.069	U	0.069	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/12/2011 4:34 PM**	1	0.526	0.211	U	0.211	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 4:55 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 4:55 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Explosives

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W** Total/Dissolved: **T**
Sample Date: **05/16/2011 11:10 AM** Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
99-35-4	1,3,5-Trinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.142	U	0.142	U	ug/L	
99-65-0	1,3-Dinitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.257	U	0.257	U	ug/L	
118-96-7	2,4,6-Trinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	1.02	0.309	U	0.309	U	ug/L	
121-14-2	2,4-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
606-20-2	2,6-Dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
35572-78-2	2-Amino-4,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.128	U	0.128	U	ug/L	
88-72-2	2-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.091	U	0.091	U	ug/L	
99-08-1	3-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.109	U	0.109	U	ug/L	
1946-51-0	4-Amino-2,6-dinitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.11	U	0.11	U	ug/L	
99-99-0	4-Nitrotoluene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.118	U	0.118	U	ug/L	
2691-41-0	HMX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.036	U	0.036	UJ	ug/L	*
98-95-3	Nitrobenzene	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.139	U	0.139	U	ug/L	
121-82-4	RDX	SW-846 8330	**05/20/2011 5:42 PM**	1	0.204	0.067	U	0.067	U	ug/L	
479-45-8	Tetryl	SW-846 8330	**05/20/2011 5:42 PM**	1	0.51	0.204	U	0.204	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	200	**79.6**	**B**	**79.6**	**B**	**ug/L**
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:59 PM**	1	60	4.03	U	4.03	U	ug/L
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**19.8**		**19.8**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:59 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**127000**		**127000**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**2.52**	**B**	**2.52**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	10	**226**		**226**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:59 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	101	**71800**		**71800**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	15	**248**		**248**		**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	50	**18.1**	**B**	**18.1**	**B**	**ug/L**
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**1.31**	**B**	**1.31**	**B**	**ug/L**
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	500	**10400**		**10400**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	40	**94.7**		**94.7**		**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:59 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:01 PM**	**25**	25000	**1930000**		**1930000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:59 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 8:59 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**69.9**		**69.9**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 8:59 PM**	**1**	20	**129**		**129**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:59 PM**	1	0.2	0.081	U	0.081	U	ug/L

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA02MW001D**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060801D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 12:23 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	5.99	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**12.7**		**12.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**127000**		**127000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**1.46**	**B**	**1.46**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	10	**116**		**116**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	101	**73500**		**73500**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	15	**208**		**208**		**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	50	**17.5**	**B**	**17.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**1.44**	**B**	**1.44**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	500	**10300**		**10300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	40	**107**		**107**		**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:10 PM**	**25**	25000	**1910000**		**1910000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:33 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**66.2**		**66.2**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:33 PM**	**1**	20	**128**		**128**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:33 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:05 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:05 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**23.8**		**23.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:05 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	5	**0.35**	**B**	**0.35**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**326000**		**326000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**5.33**	**B**	**5.33**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	10	**36.9**		**36.9**		**ug/L**	
7439-89-6	Iron	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	101	**285000**		**285000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:05 PM**	1	15	5.27	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	50	**12.5**	**B**	**12.5**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:05 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	500	**20300**		**20300**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:05 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:08 PM**	**25**	25000	**2260000**		**2260000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:05 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:05 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**74.9**		**74.9**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:05 PM**	**1**	20	**655**		**655**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:05 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060802D**

Sample Matrix Code: **W**
Sample Date: **05/05/2011 3:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	**Antimony (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	60	**4.59**	**B**	**4.59**	**B**	**ug/L**	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	4.01	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**17.8**		**17.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	5	0.9	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**338000**		**338000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**4.02**	**B**	**4.02**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	10	**35.2**		**35.2**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	101	**295000**		**295000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	15	**3.11**	**B**	**3.11**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	50	**13**	**B**	**13**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	500	**20600**		**20600**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	40	**18.9**	**B**	**18.9**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:17 PM**	**25**	25000	**2240000**		**2240000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 6:40 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**68.9**		**68.9**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 6:40 PM**	**1**	20	**653**		**653**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 6:40 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	200	**78.8**	**B**	**78.8**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:12 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**23.9**		**23.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:12 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**252000**		**252000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**8.55**	**B**	**8.55**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	10	**29.8**		**29.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**160**		**160**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	101	**238000**		**238000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:12 PM**	1	15	9.22	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**27**	**B**	**27**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	40	**20**	**B**	**20**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:12 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:15 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:12 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:12 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**81**		**81**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:12 PM**	**1**	20	**175**		**175**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:12 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060805D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 11:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**17.5**		**17.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	5	0.69	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**257000**		**257000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**5.75**	**B**	**5.75**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	10	**25.1**		**25.1**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	50	**20.5**	**B**	**20.5**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**26.2**	**B**	**26.2**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	500	**18200**		**18200**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	40	**21.8**	**B**	**21.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:24 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:01 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**74.3**		**74.3**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:01 PM**	**1**	20	**163**		**163**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:01 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	200	**63.6**	**B**	**63.6**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:26 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**20.9**		**20.9**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 9:26 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**6.04**	**B**	**6.04**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**130**		**130**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	101	**270000**		**270000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:26 PM**	1	15	7.83	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	50	**8.07**	**B**	**8.07**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 9:26 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	500	**19800**		**19800**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	40	**30.7**	**B**	**30.7**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:26 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:22 PM**	**25**	25000	**2620000**		**2620000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:26 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:26 PM**	**1**	20	**79.7**		**79.7**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 9:26 PM**	1	20	17.5	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:26 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060807D**

Sample Matrix Code: **W**
Sample Date: **05/06/2011 2:30 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	200	67.3	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**14.6**		**14.6**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	5	0.81	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**342000**		**342000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**3.89**	**B**	**3.89**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	10	**22**		**22**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	101	**271000**		**271000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	50	**8.48**	**B**	**8.48**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	500	**19700**		**19700**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	40	**31.5**	**B**	**31.5**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:31 PM**	**25**	25000	**2550000**		**2550000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:15 PM**	**1**	20	**76.2**		**76.2**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:15 PM**	1	20	14.2	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:15 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	200	**276**		**276**		**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 8:04 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**27.8**		**27.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 8:04 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**49700**		**49700**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**8.54**	**B**	**8.54**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	10	**14.3**		**14.3**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**204**		**204**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**48700**		**48700**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 8:04 PM**	1	15	12.6	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	50	**4.94**	**B**	**4.94**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	40	**2.96**	**B**	**2.96**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	500	**7780**		**7780**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 8:04 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 8:04 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 7:35 PM**	**5**	5000	**567000**		**567000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	101	**3.16**	**B**	**3.16**	**B**	**ug/L**	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 8:04 PM**	**1**	20	**61.1**		**61.1**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 8:04 PM**	1	20	2.74	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 8:04 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060810D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 2:16 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	200	105	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**18**		**18**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50800**		**50800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**2.24**	**B**	**2.24**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	10	**13.4**		**13.4**		**ug/L**	
7439-89-6	**Iron (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**46.6**	**B**	**46.6**	**B**	**ug/L**	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**50100**		**50100**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	15	**2.16**	**B**	**2.16**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	50	**5.66**	**B**	**5.66**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	500	**7880**		**7880**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 4:46 PM**	**5**	5000	**588000**		**588000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	**Titanium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	101	**1.53**	**B**	**1.53**	**B**	**ug/L**	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 5:53 PM**	**1**	20	**58.3**		**58.3**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 5:53 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 5:53 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 9:47 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:47 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:47 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	5	**0.31**	**B**	**0.31**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**269000**		**269000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**7.48**	**B**	**7.48**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	10	**22.5**		**22.5**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**79.9**	**B**	**79.9**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	101	**239000**		**239000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:47 PM**	1	15	4.1	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	50	**16.9**	**B**	**16.9**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**19.7**	**B**	**19.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	500	**18500**		**18500**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	40	**31.1**	**B**	**31.1**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:47 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:29 PM**	**25**	25000	**1960000**		**1960000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:47 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:47 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**75.3**		**75.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:47 PM**	**1**	20	**47.2**		**47.2**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:47 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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J = Estimated
R = Rejected
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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060815D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	200	77.6	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	2.74	B	10	U	ug/L	*
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**18.7**		**18.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	5	0.88	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**280000**		**280000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**5**	**B**	**5**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	10	**21**		**21**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	101	**250000**		**250000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	50	**17.9**	**B**	**17.9**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**19.1**	**B**	**19.1**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	500	**19300**		**19300**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	40	**28.8**	**B**	**28.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:38 PM**	**25**	25000	**2020000**		**2020000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:22 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**73.5**		**73.5**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:22 PM**	**1**	20	**46.8**		**46.8**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:22 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	200	**64.5**	**B**	**64.5**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 9:54 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**25.3**		**25.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 9:54 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	**Cadmium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	5	**0.3**	**B**	**0.3**	**B**	**ug/L**	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**276000**		**276000**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**7.87**	**B**	**7.87**	**B**	**ug/L**	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	10	**22.8**		**22.8**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**91.3**	**B**	**91.3**	**B**	**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	101	**244000**		**244000**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 9:54 PM**	1	15	4.33	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	50	**17.6**	**B**	**17.6**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**20.7**	**B**	**20.7**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	40	**27.2**	**B**	**27.2**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 9:54 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 9:36 PM**	**25**	25000	**2060000**		**2060000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 9:54 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 9:54 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**76.3**		**76.3**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 9:54 PM**	**1**	20	**50.5**		**50.5**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 9:54 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **M114MW001-DUP**
Property ID: **NA**
Sample Type: **Field Duplicate**
Lab Sample ID: **21105060816D**

Sample Matrix Code: **W**
Sample Date: **05/09/2011 9:55 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**18.8**		**18.8**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	5	0.83	B	5	U	ug/L	*
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**278000**		**278000**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**5.16**	**B**	**5.16**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	10	**20.5**		**20.5**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	101	**248000**		**248000**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	50	**18.2**	**B**	**18.2**	**B**	**ug/L**	
7440-02-0	**Nickel (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**19.6**	**B**	**19.6**	**B**	**ug/L**	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	500	**19400**		**19400**		**ug/L**	
7782-49-2	**Selenium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	40	**26.8**	**B**	**26.8**	**B**	**ug/L**	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:45 PM**	**25**	25000	**2040000**		**2040000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:28 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**72.4**		**72.4**		**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:28 PM**	**1**	20	**46.9**		**46.9**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:28 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 10:00 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:00 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**30.7**		**30.7**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:00 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**38200**		**38200**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**5.09**	**B**	**5.09**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	10	**87.7**		**87.7**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**176**		**176**		**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	15	**2.3**	**B**	**2.3**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	101	**36600**		**36600**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:00 PM**	1	15	6.88	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	50	**7.31**	**B**	**7.31**	**B**	**ug/L**	
7440-02-0	**Nickel**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**2.29**	**B**	**2.29**	**B**	**ug/L**	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	500	**6610**		**6610**		**ug/L**	
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	40	**4.44**	**B**	**4.44**	**B**	**ug/L**	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:00 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:46 PM**	**1**	1000	**308000**		**308000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:00 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:00 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**58.8**		**58.8**		**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 10:00 PM**	**1**	20	**22.3**		**22.3**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:00 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW004**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060818D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 11:11 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23.7**		**23.7**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**36800**		**36800**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**1.3**	**B**	**1.3**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	10	**23**		**23**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	101	**35000**		**35000**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	15	**2.26**	**B**	**2.26**	**B**	**ug/L**	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	50	**6.27**	**B**	**6.27**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	500	**6400**		**6400**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 5:56 PM**	**1**	1000	**297000**		**297000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:35 PM**	**1**	20	**56.4**		**56.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:35 PM**	1	20	9.8	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:35 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
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U = Non-Detect
B = Estimated (between MDL and RL)
J = Estimated
R = Rejected
* = Modified by Validation

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ENVIRONMENTAL DATA PROFESSIONAL, LLC

Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	**Aluminum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	200	**111**	**B**	**111**	**B**	**ug/L**	
7440-36-0	Antimony	SW-846 6010C	**05/24/2011 10:08 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**28.8**		**28.8**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 10:08 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63100**		**63100**		**ug/L**	
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**4.46**	**B**	**4.46**	**B**	**ug/L**	
16065-83-1	Chromium (III)	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	10	**44**		**44**		**ug/L**	
7439-89-6	**Iron**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**116**		**116**		**ug/L**	
7439-92-1	Lead	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	101	**63400**		**63400**		**ug/L**	
7439-96-5	Manganese	SW-846 6010C	**05/24/2011 10:08 PM**	1	15	7.94	B	15	U	ug/L	*
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	50	**4.39**	**B**	**4.39**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	500	**8970**		**8970**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/24/2011 10:08 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/24/2011 10:08 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/25/2011 8:53 PM**	**1**	1000	**469000**		**469000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 10:08 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 10:08 PM**	**1**	20	**68.2**		**68.2**		**ug/L**	
7440-66-6	Zinc	SW-846 6010C	**05/24/2011 10:08 PM**	1	20	13.4	B	20	U	ug/L	*
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 10:08 PM**	1	0.2	0.081	U	0.081	U	ug/L	

DF = Dilution Factor
RL = Reporting Limit
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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA0MW003**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105060819D**

Sample Matrix Code: **W**
Sample Date: **05/10/2011 1:20 PM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**20.2**		**20.2**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**59600**		**59600**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**2.19**	**B**	**2.19**	**B**	**ug/L**	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	10	**17.7**		**17.7**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	101	**60300**		**60300**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	50	**4.09**	**B**	**4.09**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	500	**8430**		**8430**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/25/2011 6:03 PM**	**1**	1000	**458000**		**458000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 7:42 PM**	**1**	20	**65.5**		**65.5**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 7:42 PM**	1	20	4.16	B	20	U	ug/L	*
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 7:42 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units
7429-90-5	Aluminum	SW-846 6010C	**05/24/2011 11:41 PM**	1	200	60	U	60	U	ug/L
7440-36-0	**Antimony**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	60	**102**		**102**		**ug/L**
7440-38-2	Arsenic	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	2.53	U	2.53	U	ug/L
7440-39-3	**Barium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**17.6**		**17.6**		**ug/L**
7440-41-7	Beryllium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.11	U	0.11	U	ug/L
7440-43-9	Cadmium	SW-846 6010C	**05/24/2011 11:41 PM**	1	5	0.2	U	0.2	U	ug/L
7440-70-2	**Calcium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**35100**		**35100**		**ug/L**
7440-47-3	**Chromium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
16065-83-1	**Chromium (III)**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**3.05**	**B**	**3.05**	**B**	**ug/L**
7440-48-4	Cobalt	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	1	U	1	U	ug/L
7440-50-8	**Copper**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	10	**11**		**11**		**ug/L**
7439-89-6	Iron	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	40	U	40	U	ug/L
7439-92-1	Lead	SW-846 6010C	**05/24/2011 11:41 PM**	1	15	1.39	U	1.39	U	ug/L
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	101	**34200**		**34200**		**ug/L**
7439-96-5	**Manganese**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	15	**2.76**	**B**	**2.76**	**B**	**ug/L**
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	50	**7.44**	**B**	**7.44**	**B**	**ug/L**
7440-02-0	Nickel	SW-846 6010C	**05/24/2011 11:41 PM**	1	40	0.96	U	0.96	U	ug/L
7440-09-7	**Potassium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	500	**6860**		**6860**		**ug/L**
7782-49-2	**Selenium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	40	**5.87**	**B**	**5.87**	**B**	**ug/L**
7440-22-4	Silver	SW-846 6010C	**05/24/2011 11:41 PM**	1	10	0.6	U	0.6	U	ug/L
7440-23-5	**Sodium**	**SW-846 6010C**	**05/20/2011 11:29 PM**	**1**	1000	**491000**		**491000**		**ug/L**
7440-28-0	Thallium	SW-846 6010C	**05/24/2011 11:41 PM**	1	20	1.75	U	1.75	U	ug/L
7440-32-6	Titanium	SW-846 6010C	**05/24/2011 11:41 PM**	1	101	1.2	U	1.2	U	ug/L
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**50.8**		**50.8**		**ug/L**
7440-66-6	**Zinc**	**SW-846 6010C**	**05/24/2011 11:41 PM**	**1**	20	**20.1**		**20.1**		**ug/L**
7439-97-6	Mercury	SW-846 7470A	**05/24/2011 11:41 PM**	1	0.2	0.081	U	0.081	U	ug/L

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* = Modified by Validation

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MA01MW002**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170901D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 9:35 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	200	164	B	200	U	ug/L	*
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**16.5**		**16.5**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**37400**		**37400**		**ug/L**	
7440-47-3	**Chromium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
16065-83-1	**Chromium (III) (Dissolv**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**2.09**	**B**	**2.09**	**B**	**ug/L**	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	**Copper (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	10	**11.6**		**11.6**		**ug/L**	
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	101	**36700**		**36700**		**ug/L**	
7439-96-5	Manganese (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	15	2	U	2	U	ug/L	
7439-98-7	**Molybdenum (Dissolve**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	50	**8.79**	**B**	**8.79**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	500	**7280**		**7280**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:01 PM**	**1**	1000	**527000**		**527000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 10:29 PM**	**1**	20	**53.4**		**53.4**		**ug/L**	
7440-66-6	Zinc (Dissolved)	SW-846 6010C	**05/24/2011 10:29 PM**	1	20	2.72	U	2.72	U	ug/L	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 10:29 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **T**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum	SW-846 6010C	**05/25/2011 12:17 AM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony	SW-846 6010C	**05/25/2011 12:17 AM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	**Arsenic**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**3.23**	**B**	**3.23**	**B**	**ug/L**	
7440-39-3	**Barium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	10	**13.3**		**13.3**		**ug/L**	
7440-41-7	Beryllium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium	SW-846 6010C	**05/25/2011 12:17 AM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**13600**		**13600**		**ug/L**	
7440-47-3	Chromium	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III)	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-48-4	Cobalt	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	4.95	B	10	U	ug/L	*
7439-89-6	**Iron**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**43.8**	**B**	**43.8**	**B**	**ug/L**	
7439-92-1	**Lead**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**1.92**	**B**	**1.92**	**B**	**ug/L**	
7439-95-4	**Magnesium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	101	**9350**		**9350**		**ug/L**	
7439-96-5	**Manganese**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	15	**66.8**		**66.8**		**ug/L**	
7439-98-7	**Molybdenum**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	50	**31.9**	**B**	**31.9**	**B**	**ug/L**	
7440-02-0	Nickel	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	500	**2520**		**2520**		**ug/L**	
7782-49-2	Selenium	SW-846 6010C	**05/25/2011 12:17 AM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver	SW-846 6010C	**05/25/2011 12:17 AM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium**	**SW-846 6010C**	**05/21/2011 12:07 AM**	**1**	1000	**451000**		**451000**		**ug/L**	
7440-28-0	Thallium	SW-846 6010C	**05/25/2011 12:17 AM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium	SW-846 6010C	**05/25/2011 12:17 AM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**16.1**	**B**	**16.1**	**B**	**ug/L**	
7440-66-6	**Zinc**	**SW-846 6010C**	**05/25/2011 12:17 AM**	**1**	20	**24.7**		**24.7**		**ug/L**	
7439-97-6	Mercury	SW-846 7470A	**05/25/2011 12:17 AM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Metals

Melrose AFB
Melrose AFB Annual
SDG: 11050608

COC Sample ID: **MWQ23**
Property ID: **NA**
Sample Type: **Site Sample**
Lab Sample ID: **21105170902D**

Sample Matrix Code: **W**
Sample Date: **05/16/2011 11:10 AM**

Total/Dissolved: **D**
Lab: **GCAL**

CAS	Parameter Name	Method	Analysis Date	DF	RL	Lab Result	LabQual	Validated Result	Val.Qual	Units	
7429-90-5	Aluminum (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	200	60	U	60	U	ug/L	
7440-36-0	Antimony (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	60	4.03	U	4.03	U	ug/L	
7440-38-2	Arsenic (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	2.53	U	2.53	U	ug/L	
7440-39-3	**Barium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	10	**11.9**		**11.9**		**ug/L**	
7440-41-7	Beryllium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.11	U	0.11	U	ug/L	
7440-43-9	Cadmium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	5	0.2	U	0.2	U	ug/L	
7440-70-2	**Calcium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**14400**		**14400**		**ug/L**	
7440-47-3	Chromium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
16065-83-1	Chromium (III) (Dissolvec	SW-846 6010C	**05/24/2011 11:18 PM**	1	1	1	U	1	U	ug/L	
7440-48-4	Cobalt (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	1	U	1	U	ug/L	
7440-50-8	Copper (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	5.49	B	10	U	ug/L	*
7439-89-6	Iron (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	40	U	40	U	ug/L	
7439-92-1	Lead (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	15	1.39	U	1.39	U	ug/L	
7439-95-4	**Magnesium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	101	**9750**		**9750**		**ug/L**	
7439-96-5	**Manganese (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	15	**70.1**		**70.1**		**ug/L**	
7439-98-7	**Molybdenum (Dissolvec**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	50	**34**	**B**	**34**	**B**	**ug/L**	
7440-02-0	Nickel (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	0.96	U	0.96	U	ug/L	
7440-09-7	**Potassium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	500	**2680**		**2680**		**ug/L**	
7782-49-2	Selenium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	40	4.34	U	4.34	U	ug/L	
7440-22-4	Silver (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	10	0.6	U	0.6	U	ug/L	
7440-23-5	**Sodium (Dissolved)**	**SW-846 6010C**	**05/20/2011 10:38 PM**	**1**	1000	**489000**		**489000**		**ug/L**	
7440-28-0	Thallium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	20	1.75	U	1.75	U	ug/L	
7440-32-6	Titanium (Dissolved)	SW-846 6010C	**05/24/2011 11:18 PM**	1	101	1.2	U	1.2	U	ug/L	
7440-62-2	**Vanadium (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**16.5**	**B**	**16.5**	**B**	**ug/L**	
7440-66-6	**Zinc (Dissolved)**	**SW-846 6010C**	**05/24/2011 11:18 PM**	**1**	20	**25**		**25**		**ug/L**	
7439-97-6	Mercury (Dissolved)	SW-846 7470A	**05/24/2011 11:18 PM**	1	0.2	0.081	U	0.081	U	ug/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MA02MW001D** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060801**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	101	2190		2190		mg/L
Sulfate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	5	0.05	1.56		1.56		mg/L-
Nitrite	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	1	130		130		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	6290		6290		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.00149	0.0224		0.0224		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 12:23 PM**	**05/12/2011 12:02 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **M114MW004** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060802**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	101	4180		4180		mg/L
Sulfate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1000	200	2110		2110		mg/L
Method: EPA 353.2									
Nitrate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.9		0.9		mg/L-
Nitrite	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	1	56.6		56.6		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	7000		7000		mg/L
Method: SW-846 6860									
Perchlorate	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.000594	0.00279		0.00279		mg/L
Method: SW-846 7196A									
Chromium VI	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/05/2011 3:16 PM**	**05/12/2011 12:55 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **M114MW002** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060805**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	101	3660		3660		mg/L
Sulfate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1000	200	2130		2130		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.375		0.375		mg/L-
Nitrite	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	1	69.2		69.2		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	7800		7800		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.000594	0.0028		0.0028		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 11:35 AM**	**05/12/2011 1:13 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
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SDG: 11050608

Sample Name:	**M114MW003**	Sample Matrix Code:	**W**
Location ID:	**NA**	Total/Dissolved:	**T**
Sample Type:	**Site Sample**	Lab Code:	**GCAL**
Lab Sample ID:	**21105060807**		

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	101	4550		4550		mg/L
Sulfate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1000	200	2460		2460		mg/L
Method: EPA 353.2									
Nitrate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.719		0.719		mg/L-
Nitrite	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.01	0.004	B	0.004	B	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	1	44.5		44.5		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	9540		9540		mg/L
Method: SW-846 6860									
Perchlorate	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.000594	0.0041		0.0041		mg/L
Method: SW-846 7196A									
Chromium VI	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/06/2011 2:30 PM**	**05/12/2011 1:48 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MA01MW001** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Site Sample** Lab Code: **GCAL**
Lab Sample ID: **21105060810**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
Method: EPA 300.0										
Chloride	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	50	651		651		mg/L	
Sulfate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	500	101	704		704		mg/L	
Method: EPA 353.2										
Nitrate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.233		0.233		mg/L-	
Nitrite	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.01	0.004	B	0.01	U	mg/L-	*
Method: SM 2320 B										
Total Alkalinity	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	1	169		169		mg/L	
Method: SM 2540 C										
Total Dissolved Solids(TDS)	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	1980		1980		mg/L	
Method: SW-846 6860										
Perchlorate	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.0003	0.000369		0.000369		mg/L	
Method: SW-846 7196A										
Chromium VI	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	10	2.8	U	2.8	U	ug/L	
Method: SW-846 9012A										
Total Cyanide	**05/09/2011 2:16 PM**	**05/12/2011 2:05 PM**	1	0.005	0.0006	U	0.0006	U	mg/L	

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **M114MW001** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060815**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	101	3280		3280		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1000	200	2140		2140		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	5	0.05	0.901		0.901		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	1	79.1		79.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	8270		8270		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.000594	0.00327		0.00327		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **M114MW001-DUP** Sample Matrix Code: **W**
Location ID: **NA** Total/Dissolved: **T**
Sample Type: **Field Duplicate** Lab Code: **GCAL**
Lab Sample ID: **21105060816**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	101	3250		3250		mg/L
Sulfate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1000	200	2150		2150		mg/L
Method: EPA 353.2									
Nitrate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	2	0.02	0.915		0.915		mg/L-
Nitrite	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	1	82.1		82.1		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	8310		8310		mg/L
Method: SW-846 6860									
Perchlorate	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.000594	0.00324		0.00324		mg/L
Method: SW-846 7196A									
Chromium VI	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/09/2011 9:55 AM**	**05/12/2011 3:51 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

DF = Dilution Factor
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R = Rejected
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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MA0MW004** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060818**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	20	269		269		mg/L
Sulfate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	200	40	352		352		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.615		0.615		mg/L-
Nitrite	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	1	192		192		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	1110		1110		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.0003	0.0098		0.0098		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	10	7	B	7	B	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 11:11 AM**	**05/12/2011 4:08 PM**	1	0.005	0.0013	B	0.0013	B	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MA0MW003** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105060819**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	50	537		537		mg/L
Sulfate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	500	101	616		616		mg/L
Method: EPA 353.2									
Nitrate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.163		0.163		mg/L-
Nitrite	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	1	161		161		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	1760		1760		mg/L
Method: SW-846 6860									
Perchlorate	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.0003	0.00103		0.00103		mg/L
Method: SW-846 7196A									
Chromium VI	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	10	18		18		ug/L
Method: SW-846 9012A									
Total Cyanide	**05/10/2011 1:20 PM**	**05/12/2011 4:26 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MA01MW002** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105170901**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	20	473		473		mg/L
Sulfate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	200	40	544		544		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.325		0.325		mg/L-
Nitrite	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	1	171		171		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	1780		1780		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.0003	0.00205		0.00205		mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 9:35 AM**	**05/19/2011 11:15 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Conventionals

Melrose AFB
Melrose AFB Annual

SDG: 11050608

Sample Name: **MWQ23** | Sample Matrix Code: **W**
Location ID: **NA** | Total/Dissolved: **T**
Sample Type: **Site Sample** | Lab Code: **GCAL**
Lab Sample ID: **21105170902**

Parameter Name	Collection	Analysis	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
Method: EPA 300.0									
Chloride	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	20	235		235		mg/L
Sulfate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	200	40	423		423		mg/L
Method: EPA 353.2									
Nitrate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Nitrite	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.01	0.003	U	0.003	U	mg/L-
Method: SM 2320 B									
Total Alkalinity	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	1	327		327		mg/L
Method: SM 2540 C									
Total Dissolved Solids(TDS)	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	1420		1420		mg/L
Method: SW-846 6860									
Perchlorate	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.0003	0.0003	U	0.0003	U	mg/L
Method: SW-846 7196A									
Chromium VI	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	10	2.8	U	2.8	U	ug/L
Method: SW-846 9012A									
Total Cyanide	**05/16/2011 11:10 AM**	**05/19/2011 11:33 PM**	1	0.005	0.0006	U	0.0006	U	mg/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/05/2011 12:23 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/09/2011 9:36 PM**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA02MW001D** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **05/05/2011 12:23 PM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **05/09/2011 9:36 PM**
Lab Sample ID: **21105060801**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16		16		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/05/2011 3:16 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/09/2011 10:05 PM**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/05/2011 3:16 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/09/2011 10:05 PM**
Lab Sample ID: **21105060802**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	12.4		12.4		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/06/2011 11:35 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/09/2011 11:11 PM**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/06/2011 11:35 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/09/2011 11:11 PM**
Lab Sample ID: **21105060805**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	16.3		16.3		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/06/2011 2:30 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/10/2011 12:01 AM**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW003** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **05/06/2011 2:30 PM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **05/10/2011 12:01 AM**
Lab Sample ID: **21105060807**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	4.55		4.55		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 2:16 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/10/2011 5:58 PM**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 2:16 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/10/2011 5:58 PM**
Lab Sample ID: **21105060810**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	6.28		6.28		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
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* = Modified by Validation

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 9:55 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 10:52 AM**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 9:55 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 10:52 AM**
Lab Sample ID: **21105060815**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	3.06		3.06		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 9:55 AM** Lab: **GCAL**
Sample Type: **Field Duplicate** Analysis Date: **05/11/2011 11:15 AM**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	0.322	U	0.322	UJ	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **M114MW001-DUP** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/09/2011 9:55 AM** Lab: **GCAL**
Sample Type: **Field Duplicate** Analysis Date: **05/11/2011 11:15 AM**
Lab Sample ID: **21105060816**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	2.99		2.99		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/10/2011 11:11 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 12:06 PM**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	17.6		17.6	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW004** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/10/2011 11:11 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 12:06 PM**
Lab Sample ID: **21105060818**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
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U = Non-Detect
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N = Presumptive evidence
* = Modified by Validation

Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/10/2011 1:20 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 12:28 PM**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units	
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L	
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L	
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L	
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L	
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L	
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L	
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L	
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L	
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L	
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L	
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L	
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L	
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L	
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L	
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L	
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L	
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L	
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L	
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L	
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L	
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L	
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L	
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L	
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L	
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L	
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L	
67-64-1	Acetone	1	5	7.24		7.24	J	ug/L	*
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L	
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L	
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L	
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L	
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L	

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA0MW003** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/10/2011 1:20 PM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/11/2011 12:28 PM**
Lab Sample ID: **21105060819**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002** Sample Matrix Code: **W** Total/Dissolved: **T**
Location ID: **NA** Sample Date: **05/16/2011 9:35 AM** Lab: **GCAL**
Sample Type: **Site Sample** Analysis Date: **05/18/2011 1:06 PM**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

DF = Dilution Factor
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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MA01MW002** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **05/16/2011 9:35 AM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **05/18/2011 1:06 PM**
Lab Sample ID: **21105170901**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	1.89		1.89		ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **05/16/2011 11:10 AM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **05/18/2011 1:28 PM**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
630-20-6	1,1,1,2-Tetrachloroethane	1	1	0.15	U	0.15	U	ug/L
71-55-6	1,1,1-Trichloroethane	1	1	0.078	U	0.078	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1	1	0.112	U	0.112	U	ug/L
79-00-5	1,1,2-Trichloroethane	1	1	0.179	U	0.179	U	ug/L
75-34-3	1,1-Dichloroethane	1	1	0.064	U	0.064	U	ug/L
75-35-4	1,1-Dichloroethene	1	1	0.183	U	0.183	U	ug/L
563-58-6	1,1-Dichloropropene	1	1	0.071	U	0.071	U	ug/L
87-61-6	1,2,3-Trichlorobenzene	1	1	0.107	U	0.107	U	ug/L
96-18-4	1,2,3-Trichloropropane	1	1	0.063	U	0.063	U	ug/L
120-82-1	1,2,4-Trichlorobenzene	1	1	0.138	U	0.138	U	ug/L
95-63-6	1,2,4-Trimethylbenzene	1	1	0.08	U	0.08	U	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	1	1	0.082	U	0.082	U	ug/L
106-93-4	1,2-Dibromoethane	1	1	0.169	U	0.169	U	ug/L
95-50-1	1,2-Dichlorobenzene	1	1	0.086	U	0.086	U	ug/L
107-06-2	1,2-Dichloroethane	1	1	0.121	U	0.121	U	ug/L
78-87-5	1,2-Dichloropropane	1	1	0.114	U	0.114	U	ug/L
108-67-8	1,3,5-Trimethylbenzene	1	1	0.053	U	0.053	U	ug/L
541-73-1	1,3-Dichlorobenzene	1	1	0.08	U	0.08	U	ug/L
142-28-9	1,3-Dichloropropane	1	1	0.113	U	0.113	U	ug/L
106-46-7	1,4-Dichlorobenzene	1	1	0.058	U	0.058	U	ug/L
594-20-7	2,2-Dichloropropane	1	1	0.112	U	0.112	U	ug/L
78-93-3	2-Butanone	1	5	0.235	U	0.235	U	ug/L
95-49-8	2-Chlorotoluene	1	1	0.09	U	0.09	U	ug/L
591-78-6	2-Hexanone	1	5	0.302	U	0.302	U	ug/L
106-43-4	4-Chlorotoluene	1	1	0.046	U	0.046	U	ug/L
99-87-6	4-Isopropyltoluene	1	1	0.175	U	0.175	U	ug/L
108-10-1	4-Methyl-2-pentanone	1	5	0.142	U	0.142	U	ug/L
67-64-1	Acetone	1	5	0.322	U	0.322	U	ug/L
71-43-2	Benzene	1	1	0.049	U	0.049	U	ug/L
108-86-1	Bromobenzene	1	1	0.095	U	0.095	U	ug/L
74-97-5	Bromochloromethane	1	1	0.238	U	0.238	U	ug/L
75-27-4	Bromodichloromethane	1	1	0.071	U	0.071	U	ug/L
75-25-2	Bromoform	1	1	0.278	U	0.278	U	ug/L

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Form 1 Data Sheet - Volatiles

Melrose AFB
Melrose AFB Annual

SDG: 11050608

COC Sample ID: **MWQ23** | Sample Matrix Code: **W** | Total/Dissolved: **T**
Location ID: **NA** | Sample Date: **05/16/2011 11:10 AM** | Lab: **GCAL**
Sample Type: **Site Sample** | Analysis Date: **05/18/2011 1:28 PM**
Lab Sample ID: **21105170902**
Method: **SW-846 8260B**

CAS	Parameter Name	DF	RL	Lab Result	LabQual	Val. Result	Val.Qual	Units
74-83-9	Bromomethane	1	1	0.276	U	0.276	U	ug/L
75-15-0	Carbon disulfide	1	1	0.19	U	0.19	U	ug/L
56-23-5	Carbon tetrachloride	1	1	0.056	U	0.056	U	ug/L
108-90-7	Chlorobenzene	1	1	0.055	U	0.055	U	ug/L
75-00-3	Chloroethane	1	1	0.279	U	0.279	U	ug/L
67-66-3	Chloroform	1	1	0.062	U	0.062	U	ug/L
74-87-3	Chloromethane	1	1	0.076	U	0.076	U	ug/L
156-59-2	cis-1,2-Dichloroethene	1	1	0.104	U	0.104	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1	1	0.105	U	0.105	U	ug/L
74-95-3	Dibromomethane	1	1	0.197	U	0.197	U	ug/L
75-71-8	Dichlorodifluoromethane	1	1	0.088	U	0.088	U	ug/L
100-41-4	Ethylbenzene	1	1	0.18	U	0.18	U	ug/L
87-68-3	Hexachlorobutadiene	1	1	0.347	U	0.347	U	ug/L
98-82-8	Isopropylbenzene (Cumene)	1	1	0.058	U	0.058	U	ug/L
136777-61-2	m,p-Xylene	1	2	0.099	U	0.099	U	ug/L
75-09-2	Methylene chloride	1	5	0.102	U	0.102	U	ug/L
91-20-3	Naphthalene	1	1	0.175	U	0.175	U	ug/L
104-51-8	n-Butylbenzene	1	1	0.068	U	0.068	U	ug/L
103-65-1	n-Propylbenzene	1	1	0.069	U	0.069	U	ug/L
95-47-6	o-Xylene	1	1	0.077	U	0.077	U	ug/L
135-98-8	sec-Butylbenzene	1	1	0.088	U	0.088	U	ug/L
100-42-5	Styrene	1	1	0.058	U	0.058	U	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1	5	0.084	U	0.084	U	ug/L
98-06-6	tert-Butylbenzene	1	1	0.058	U	0.058	U	ug/L
127-18-4	Tetrachloroethene	1	1	0.141	U	0.141	U	ug/L
108-88-3	Toluene	1	1	0.078	U	0.078	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1	1	0.096	U	0.096	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1	1	0.068	U	0.068	U	ug/L
79-01-6	Trichloroethene	1	1	0.094	U	0.094	U	ug/L
75-69-4	Trichlorofluoromethane	1	1	0.094	U	0.094	U	ug/L
75-01-4	Vinyl chloride	1	1	0.104	U	0.104	U	ug/L

DF = Dilution Factor
RL = Reporting Limit
U = Non-Detect
J = Estimated
R = Rejected
N = Presumptive evidence
* = Modified by Validation

Appendix II
Chain of Custody

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	211050604 (corrected)	5-13-4

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite 2, Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850-243-0070
Fax: 850-243-0055

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Analytical Requests & Method: Total Metals (...), ..., CN, ... (...), ..., ... (...), ALK/TDS, VOC (...), Dissolved ... (...)

Lab use only:
Custody Seal
used ☑ yes ☐ no
intact ☑ yes ☐ no
Temperature °C 3.1 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	Remarks	Lab ID
GW	5/5/11	926		✓	MWQ2		7	X		X	X	X	X	X		X		*	~~3~~ ~
GW	5/5/11	1223		✓	MAQ2 MW001D		12	X	X		X	X	X	X	X	X		1	~~11~~ ~
GW	5/5/11	1510		✓	M114 MW004		13	X	X	X	X	X	X	X	X	X		2	~~12~~ ~
	5/5/11	926			TB-1		3											3	~~14~~ ~
	5/5/11	926			TB2		3											4	~~15~~ ~

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		5/5/11	1552
[signature]	[signature]	5/6/11	910

Note: * Sample was a cloudy water

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	240506CE	

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy Suite
Ft Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 8072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:

Sampled By: B. Stewart, J. Kramer

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 5.3°C
4.4°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Total Metals (HNO3)	Dissolved Metals (HNO3)	Extractables	CVAA	Cyanide (NaOH)	Perchlorate	Cl/SO4/NO3/NO2	Alkalinity	VOC (HCl) 8260	Remarks:	Lab ID
GW	5/6/11	1135		X	MW14 MW003		12	X	X	X	X	X	X	X	X	X		5
	5/6/11	1230			EB1		12	X	X	X	X	X	X	X	X	X		6
GW	5/6/11	1430		X	MW14 MW003		12	X	X	X	X	X	X	X	X	X		7
	5/6/11				TB4		3									X		8
	5/6/11				TB5		3									X		9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fedex	5/6/11	1523
Fedex		5/6/11	
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time: 0857
Relinquished by: (Signature)	Received by: (Signature)	Date: 5/7/11	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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GCAL-06 11/98

240506CE

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4147	211050608	5-17-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243-0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.9 4.3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives (Acetone)	Cyanide (NaOH)	VOCs (HCl)	ALK/TS	Perchlorate	Cr VI (50/HNO3/NH4OH)	Cr III	Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X		X	X		*	
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X		*	
GW	5/9/11	1416		X	MA01MW001		13	X	X	X	X	X	X	X	X			10
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X			11
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X			12, 13
	5/9/11				TBC		3					X						14
	5/9/11				EQ7		3					X						

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Feder		5-10-11	850
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * sample will be received at lab 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	210506608	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.9

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	VOCs (HCl)	ALKT/TS	Perchlorate	1,4 D (H2SO4/HNO3/NaOH)	CrVI	Remarks:	Lab ID
GW	5/9/11	955		X	M114MW001		12	X	X	X	X	X	X	X	X	X	*	15
GW	5/9/11	955		X	M114MW001-Dup		12	X	X	X	X	X	X	X	X	X	*	16
GW	5/9/11	1416		X	MA01MW001		12	X	X	X	X	X	X	X	X	X		
GW	5/9/11	1416		X	MA01MW001-MS		12	X	X	X	X	X	X	X	X	X		
GW	5/9/11	1416		X	MA01MW001-MSD		12	X	X	X	X	X	X	X	X	X		
	5/9/11				TB6		3					X						
	5/9/11				TB7		3					X						
	5/10/11				TB8 *													17

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/9/11	1600
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5-10-11	725
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * samples received 5-11-11 @ 715

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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GULF COAST ANALYTICAL LABORATORIES

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Trinity	4747	21105060F	5-18-11

Report to:
Client: Trinity ADC
Address: 90 NW Beal PKWY A2
Fort Walton Beach, FL 32548
Contact: J. Kramer
Phone: 850 243 0077
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number:
Sampled By:

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Explosives	Cyanide (NaOH)	Perchlorate	VOCs (HCl)	ALKTS	Cl/SO4 /NO3 /NO2	CrVI	Remarks:	Lab ID
GW	5/10/11	1111		X	MAOMW004		12	X	X	X	X	X	X	X	X	X		18
GW	5/10/11	1320		X	MAOMW003		12	X	X	X	X	X	X	X	X	X		19
	5/10/11				TB7		3						X					20
					TB8		3						X				X	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/10/11	1430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/11/11	855
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: * received w/ shipment @ 725 on 5-11-11

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

211050608

Lab use only	Client Name	Client #	Workorder #	Due Date
	Trinity	4717	~~211050426~~	5/24/11

Report to:
Client: Trinity ADC
Address: 90 NW Beal Pkwy #2
Fort Walton Beach FL 32548
Contact: J. Kramer
Phone: 850 243 0072
Fax:

Bill to:
Client:
Address:
Contact:
Phone:
Fax:

P.O. Number:
Project Name/Number: Melrose
Sampled By: B. Stewart, J. Kramer

Lab use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.8°C

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Dissolved Metals (HNO3)	Total Metals (HNO3)	Cyanide	GRO (MeOH)	DRO (Acetone)	BTEX/MTBE (HCl)	VOC (HCl)	Lab ID
GW	5/16/11	935		X	MAG1 MW02		12	X	X	X	X	X	X	X	1 21105170901
GW	5/16/11	1110		X	MW-23		12	X	X	X	X	X	X	X	2 21105170902
					TB9		3							X	3 21105170903

Remarks: from 2 from 1

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		5/16/11	1539
Fed Ex	Fed Ex		
		5/17/11	0900

Note: MW23 was not field filtered. Filter in lab.

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

LAB COPY

APPENDIX F

Geophysical Logs/Data

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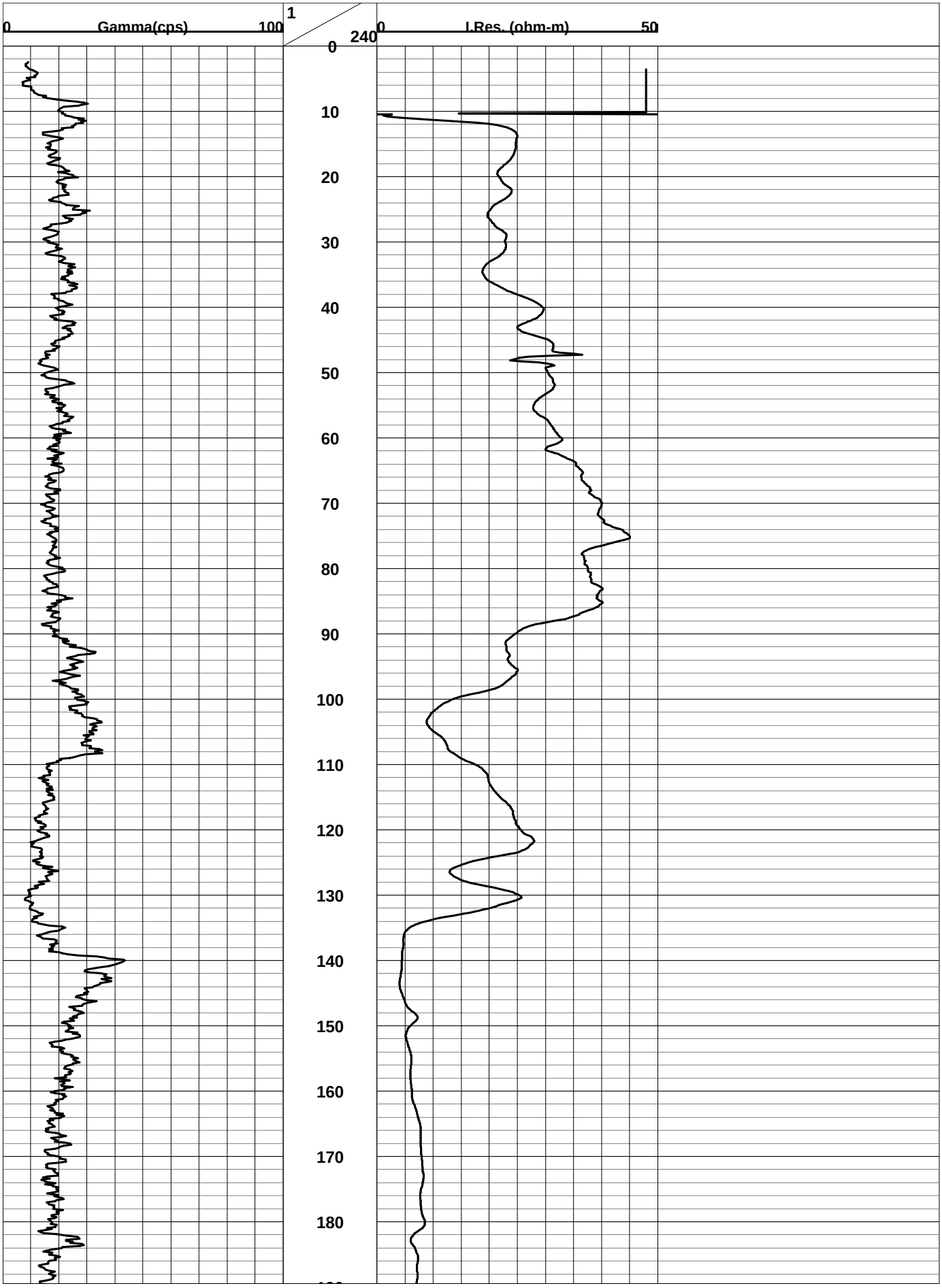
MW□ □□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Gamma(cps)
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1
240
0
LRes. (ohm-m)
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0
10
20
30
40
50
60
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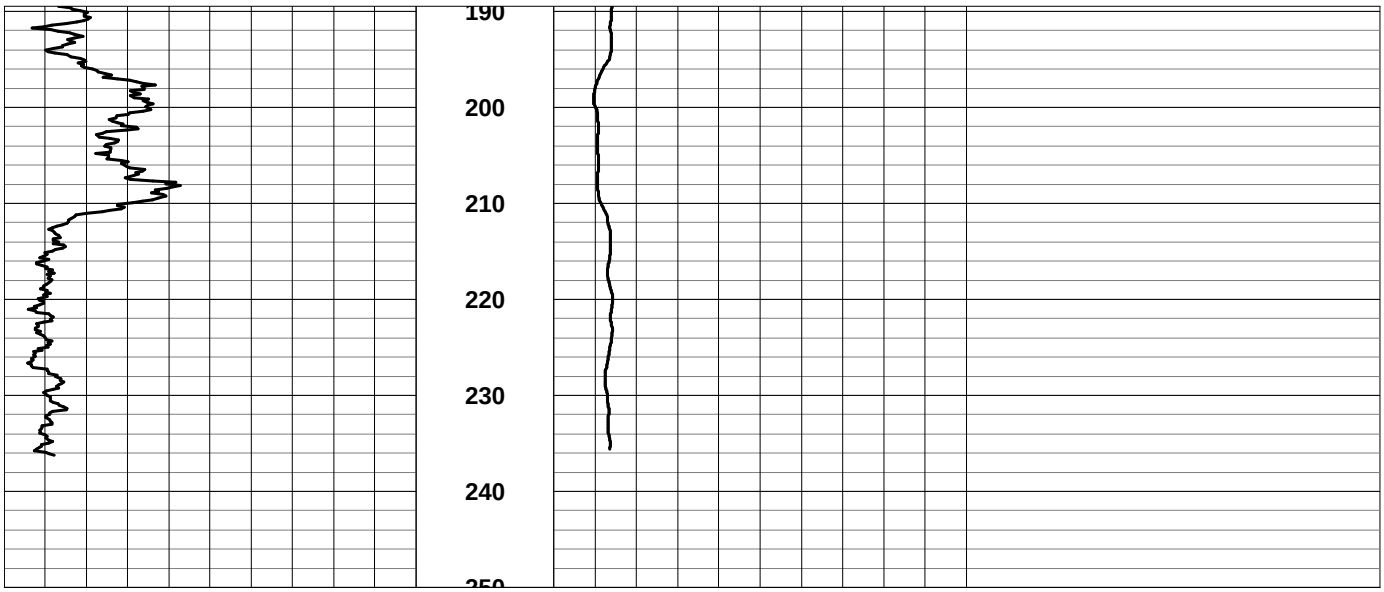
150
160
170
180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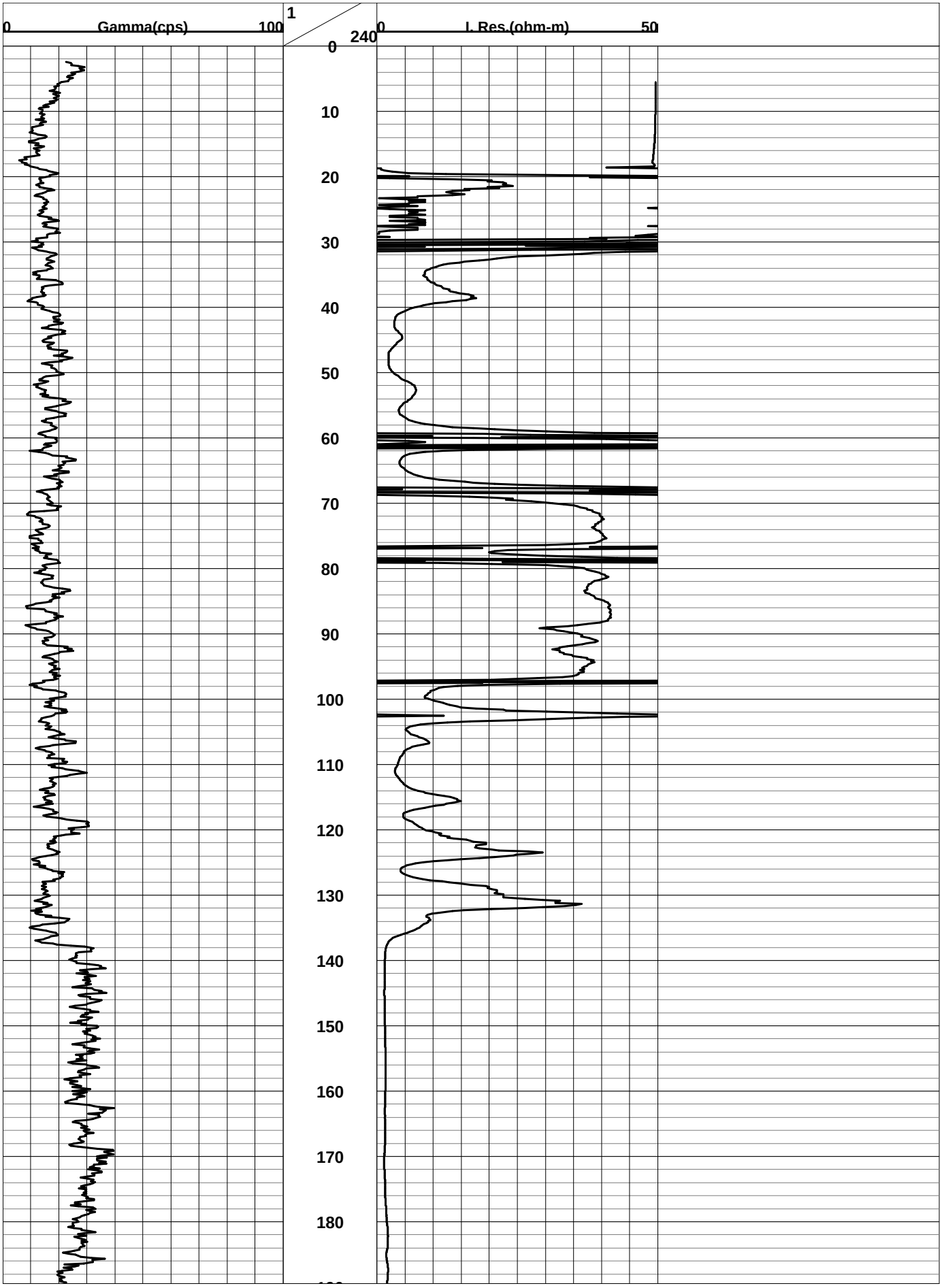
200
210
220
230
240

MW□ □□0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Gamma(cps)
100
1
240
0
I. Res.(ohm-m)
50
0
10
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30
40
50
60
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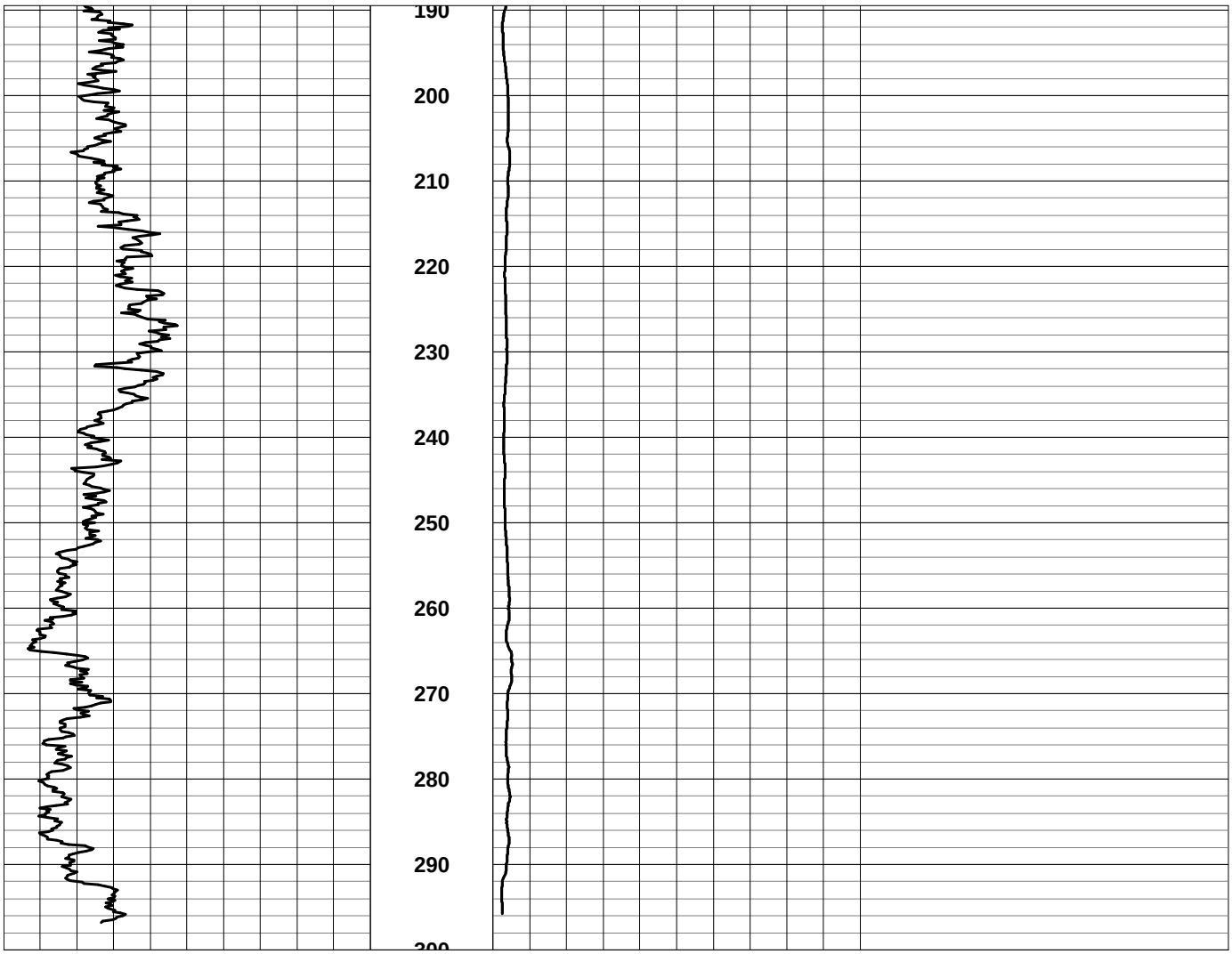
150
160
170
180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260
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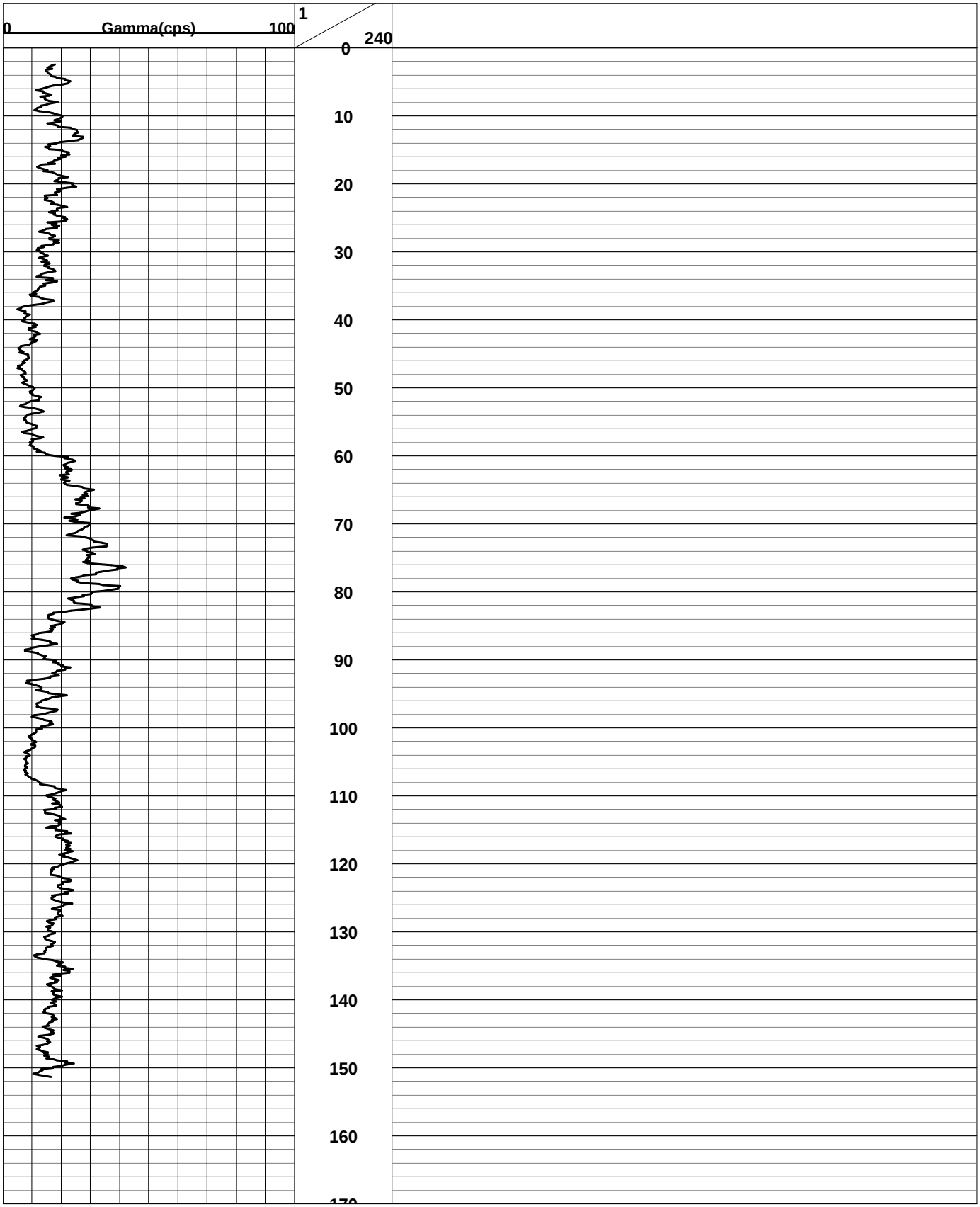
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Gamma(cps)
100
1
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0
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30
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70
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90
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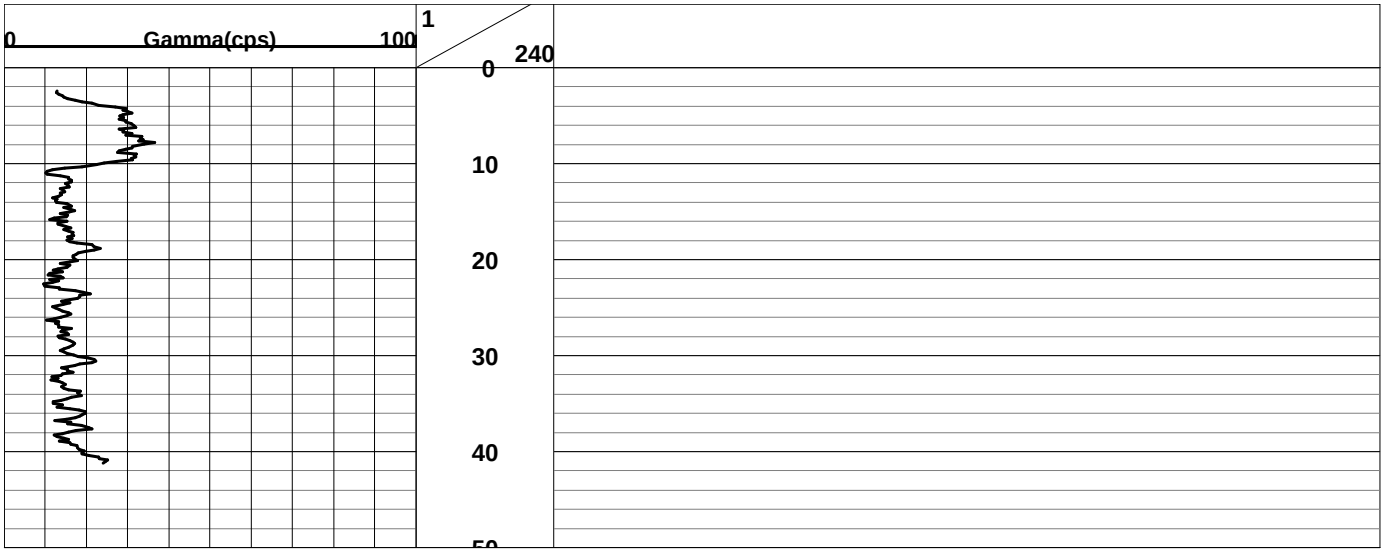
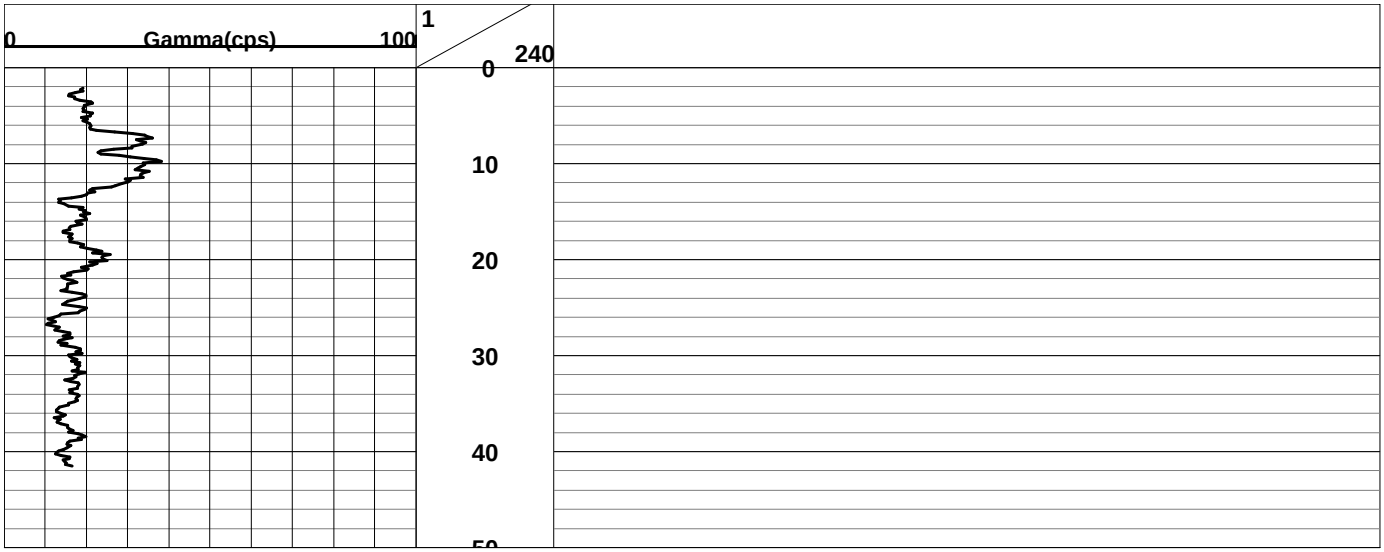
110
120
130
140
150
160

M117MW001



M117MW004



MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
2.43	7.46289	2.43	-999	2.43	23.9551	5.51	-0.369321	2.43	17.7031	2.43	12.6582	2.1	18.7139
2.59	8.6001	2.59	-999	2.59	25.7012	5.67	-0.370757	2.59	9.89795	2.59	13.7622	2.26	22.6973
2.75	13.5166	2.76	-999	2.75	15.4326	5.83	-0.371757	2.75	26.1797	2.75	12.8057	2.43	16.668
2.92	7.42334	2.92	-999	2.92	32.498	6	-0.371312	2.92	12.1152	2.92	11.3867	2.59	16.2617
3.08	3.78479	3.08	-999	3.08	25.625	6.16	-0.372987	3.08	14.1392	3.08	15.5942	2.75	20.6787
3.25	8.33301	3.25	-999	3.25	23.1846	6.32	-0.374451	3.25	14.2476	3.25	17.1299	2.92	10.3398
3.41	7.59595	3.41	-999	3.41	37.9473	6.49	-0.378219	3.41	17.7188	3.41	15.9609	3.08	15.4019
3.57	17.1768	3.57	-2.13143	3.57	26.5332	6.65	-0.37707	3.57	15.0107	3.57	17.4033	3.25	15.3662
3.74	7.64478	3.74	-2.13143	3.74	22.9551	6.82	-0.377299	3.74	12.625	3.74	20.0137	3.41	23.6641
3.9	7.59204	3.9	-2.13143	3.9	28.0215	6.98	-0.379144	3.9	17.6924	3.9	24.0547	3.57	20.3682
4.06	13.0469	4.07	-2.13143	4.06	29.6875	7.14	-0.380191	4.06	14.4141	4.06	29.1504	3.74	17.0254
4.23	13.2578	4.23	-2.13143	4.23	27.9287	7.31	-0.376269	4.23	23.1104	4.23	24.2441	3.9	28.8994
4.39	21.2803	4.39	-2.13143	4.39	13.8008	7.47	-0.37707	4.39	14.2021	4.39	37.1699	4.06	16.9717
4.55	5.80078	4.56	-2.13143	4.55	29.3086	7.63	-0.380424	4.55	20.4941	4.55	33.0195	4.23	13.5767
4.72	5.81372	4.72	-2.13143	4.72	24.4805	7.8	-0.37926	4.72	21.4502	4.72	20.4365	4.39	20.4951
4.88	9.72705	4.88	-2.13143	4.88	20.8232	7.96	-0.377299	4.88	27.6025	4.88	34.582	4.55	15.3818
5.05	15.4771	5.05	-2.13143	5.05	26.4854	8.12	-0.375699	5.05	22.8457	5.05	29.4512	4.72	30.7158
5.21	5.79541	5.21	-2.13143	5.21	23.7617	8.29	-0.371201	5.21	22.8135	5.21	26.6289	4.88	15.3647
5.37	9.64941	5.37	-2.13143	5.37	23.9375	8.45	-0.370535	5.37	17.7793	5.37	28.833	5.05	25.7109
5.54	7.79932	5.54	-2.13143	5.54	22.3652	8.62	-0.37479	5.54	20.5303	5.54	25.4785	5.21	17.1592
5.7	1.92432	5.7	-2.13143	5.7	19.6709	8.78	-0.377644	5.7	18.4629	5.7	28.7412	5.37	15.3037
5.86	9.49609	5.87	-2.13143	5.86	14.2095	8.94	-0.383957	5.86	6.27344	5.86	37.7637	5.54	20.416
6.03	7.49878	6.03	-2.13143	6.03	21.3457	9.11	-0.389138	6.03	16.8291	6.03	26.8311	5.7	22.0947
6.19	9.3584	6.19	-2.13143	6.19	19.6689	9.27	-0.38503	6.19	12.4424	6.19	35.7539	5.86	20.4365
6.35	7.51709	6.36	-2.13143	6.35	25.3936	9.43	-0.389627	6.35	10.3047	6.35	28.5918	6.03	21.9658
6.52	16.9531	6.52	-2.13143	6.52	11.3628	9.6	-0.391595	6.52	10.4531	6.52	30.3643	6.19	18.6045
6.68	9.29053	6.68	-2.13143	6.68	16.874	9.76	-0.39296	6.68	18.915	6.68	17.9219	6.35	22.0264
6.85	7.41577	6.85	-2.13143	6.85	20.6309	9.92	-0.398132	6.85	16.9219	6.85	31.9707	6.52	20.2305
7.01	9.64307	7.01	-2.13143	7.01	17.9336	10.09	-0.401613	7.01	16.9258	7.01	35.6035	6.68	21.9678
7.17	11.626	7.17	-2.13143	7.17	16.5127	10.25	-0.406884	7.17	19.3906	7.17	38.9219	6.85	29.0371
7.34	16.8945	7.34	-2.13143	7.34	24.2549	10.42	-0.412021	7.34	6.49609	7.34	23.0645	7.01	40.7813
7.5	11.1396	7.5	-2.13143	7.5	22.8223	10.58	-0.416588	7.5	4.26001	7.5	37.2988	7.17	43.541
7.66	11.4233	7.67	-2.13143	7.66	8.15088	10.74	-0.418274	7.66	25.8428	7.66	30.0078	7.34	35.1406
7.83	13.0469	7.83	-2.13143	7.83	23.1377	10.91	-0.418415	7.83	15.1357	7.83	39.0918	7.5	25.1807
7.99	24.29	7.99	-2.13143	7.99	21.7383	11.07	-0.424866	7.99	21.2363	7.99	34.1445	7.66	35.2539
8.15	11.895	8.16	-2.13143	8.15	20.9385	11.23	-0.431068	8.15	12.562	8.15	41.6035	7.83	21.6699
8.32	18.6172	8.32	-2.13143	8.32	16.5674	11.4	-0.434238	8.32	19.1318	8.32	25.0742	7.99	48.0527
8.48	29.377	8.48	-2.13143	8.48	14.7197	11.56	-0.434086	8.48	10.5151	8.48	16.0352	8.15	41.5371
8.65	28.9287	8.65	-2.13143	8.65	20.2793	11.72	-0.438072	8.65	10.5859	8.65	37.7813	8.32	21.7471
8.81	41.1953	8.81	-2.13143	8.81	11.1318	11.89	-0.444829	8.81	12.6968	8.81	26.916	8.48	21.6699
8.97	25.9912	8.97	-2.13143	8.97	29.4072	12.05	-0.45114	8.97	12.6733	8.97	33.7891	8.65	21.71
9.14	25.6201	9.14	-2.13143	9.14	8.7002	12.21	-0.454446	9.14	12.5835	9.14	22.9268	8.81	26.6689
9.3	18.9365	9.3	-2.13143	9.3	6.83374	12.38	-0.463793	9.3	10.4067	9.3	38.9414	8.97	25.3291
9.46	22.6777	9.47	-2.13143	9.46	15.9893	12.54	-0.475713	9.46	6.21289	9.46	35.5645	9.14	18.665
9.63	15.3232	9.63	-2.13143	9.63	20.4912	12.71	-0.483314	9.63	20.6133	9.63	28.3496	9.3	25.2979
9.79	22.1826	9.79	-2.13143	9.79	13.7144	12.87	-0.497666	9.79	28.7803	9.79	28.3047	9.46	43.5254
9.95	22.543	9.96	-2.13143	9.95	6.87598	13.03	-0.499068	9.95	19.1074	9.95	24.8926	9.63	40.0742
10.12	17.2266	10.12	-2.14536	10.12	13.6992	13.2	-0.500276	10.12	17.0576	10.12	19.6992	9.79	41.9824
10.28	20.7119	10.28	-35.4034	10.28	16.1846	13.36	-0.503526	10.28	14.8325	10.28	19.6836	9.95	33.5039
10.45	24.5381	10.45	2.65523	10.45	19.6348	13.52	-0.518255	10.45	22.248	10.45	19.7227	10.12	31.8252
10.61	20.377	10.61	1.06745	10.61	9.90527	13.69	-0.526171	10.61	25.1719	10.61	10.7476	10.28	21.7549
10.77	28.3008	10.77	1.88291	10.77	14.7036	13.85	-0.513747	10.77	14.9741	10.77	3.58984	10.45	41.7363
10.94	16.876	10.94	4.13208	10.94	9.86865	14.01	-0.536645	10.94	10.6206	10.94	5.37061	10.61	36.6973
11.1	31.7002	11.1	6.34496	11.1	14.8179	14.18	-0.580612	11.1	25.2637	11.1	12.5093	10.77	30.5303
11.26	29.8262	11.27	9.16782	11.26	19.6533	14.34	-0.552914	11.26	12.6099	11.26	17.9219	10.94	27.7432
11.43	37.5664	11.43	12.2894	11.43	14.6196	14.51	-0.510574	11.43	12.6479	11.43	12.4561	11.1	39.7227
11.59	18.9756	11.59	15.22	11.59	0	14.67	-0.511206	11.59	25.2041	11.59	19.5166	11.26	33.8223
11.75	29.4463	11.76	17.7894	11.75	22.1924	14.83	-0.572306	11.75	18.7412	11.75	15.9082	11.43	34.2129
11.92	23.3887	11.92	19.7434	11.92	20.542	15	-0.630177	11.92	25.1758	11.92	12.4224	11.59	29.6533
12.08	33.6758	12.08	21.2501	12.08	10.3135	15.16	-0.660729	12.08	33.4824	12.08	21.2539	11.75	30.9863
12.25	24.1797	12.25	22.3179	12.25	12.8682	15.32	-0.664268	12.25	16.8369	12.25	12.3467	11.92	18.4453
12.41	18.751	12.41	23.0552	12.41	5.23071	15.49	-0.650676	12.41	32.0371	12.41	12.4258	12.08	40.2109
12.57	22.79	12.57	23.5709	12.57	10.5986	15.65	-0.667127	12.57	18.9775	12.57	19.7705	12.25	30.8096
12.74	25.9443	12.74	23.9918	12.74	13.1709	15.81	-0.69207	12.74	27.0654	12.74	12.6685	12.41	22.9385
12.9	13.3032	12.9	24.2845	12.9	10.5039	15.98	-0.717703	12.9	28.707	12.9	10.7339	12.57	22.8057
13.06	26.2305	13.07	24.5507	13.06	13.2344	16.14	-0.743966	13.06	14.3872	13.06	16.0811	12.74	13.6719
13.23	13.272	13.23	24.6861	13.23	5.30225	16.31	-0.745307	13.23	31.2363	13.23	14.3828	12.9	16.8857
13.39	11.3101	13.39	24.8458	13.39	10.4521	16.47	-0.753	13.39	35.3691	13.39	14.3447	13.06	27.5166
13.55	7.47998	13.56	24.8919	13.55	7.76099	16.63	-0.780486	13.55	26.9707	13.55	14.1895	13.23	29
13.72	13.0225	13.72	24.9612	13.72	20.7822	16.8	-0.813775	13.72	24.8281	13.72	7.04712	13.39	13.7559
13.88	26.2988	13.88	24.9612	13.88	18.1611	16.96	-0.84138	13.88	10.3604	13.88	8.84912	13.55	12.3901
14.05	22.9424	14.05	24.8919	14.05	18.1563	17.12	-0.834585	14.05	16.7383	14.05	19.5371	13.72	10.8545
14.21	21.1396	14.21	24.8458	14.21	12.9351	17.29	-0.832345	14.21	18.7422	14.21	12.3843	13.88	15.5049
14.37	19.1553	14.37	24.8	14.37	5.20874	17.45	-0.883959	14.37	20.2617	14.37	15.8818	14.05	13.876
14.54	18.0674	14.54	24.8	14.54	10.4624	17.61	-0.910569	14.54	12.2183	14.54	19.5	14.21	15.3755
14.7	14.7124	14.7	24.7429	14.7	10.3862	17.78	-1.00911	14.7	12.7153	14.7	14.2769	14.37	10.8325
14.86	15.4028	14.86	24.7657	14.86	7.84619	17.94	-0.855897	14.86	8.30078	14.86	10.7051	14.54	16.8398
15.03	17.0244	15.03	24.7315	15.03	13.1748	18.11	-0.633395	15.03	24.9609	15.03	19.6006	14.7	21.415
15.19	15.0342	15.19	24.6974	15.19	21.0557	18.27	-0.528188	15.19	20.292	15.19	21.4482	14.86	30.6436
15.35	22.7402	15.36	24.7315	15.35	10.4561	18.43	-0.630818	15.35	34.5938	15.35	12.5439	15.03	10.7188
15.52	15.0732	15.52	24.7885	15.52	5.27271	18.6	-9.12067	15.52	14.3447	15.52	3.57581	15.19	18.3311
15.68	14.9209	15.68	24.7201	15.68	23.666	18.76	0.721858	15.68	18.3584	15.68	19.6484	15.35	15.2139
15.84	9.31055	15.85	24.6521	15.84	7.85474	18.92	0.74979	15.84	22.4092	15.84	17.8721	15.52	29.0166
16.01	22.5156	16.01	24.5844	16.01	7.76416	19.09	1.3378	16.01	24.3828	16.01	7.09766	15.68	19.7031
16.17	18.5889	16.17	24.5395	16.17	15.5093	19.25	2.73753	16.17	20.3223	16.17	7.08936	15.84	15.2505
16.34	30.1787	16.34	24.4725	16.34	10.3481	19.41	5.66221	16.34	22.2754	16.34	24.6709	16.01	20.0303
16.5	15.4214	16.5	24.3615	16.5	18.1465	19.58	12.2757	16.5	4.11353	16.5	8.84375	16.17	15.5762
16.66	7.70801	16.66	24.2626	16.66	7.73975	19.74	32.6136	16.66	28.6689	16.66	17.6973	16.34	16.9795
16.83	17.0703	16.83	24.1752	16.83	10.3325	19.91	205.796	16.83	12.3091	16.83	15.7622	16.5	21.5674
16.99	13.1133	16.99	24.0132	16.99	18.2451	20.07	-62.0899	16.99	18.7432	16.99	14.1343	16.66	20.0693
17.15	28.1426	17.16	23.8745	17.15	0	20.23	-47.747	17.15	14.5142	17.15	16.1162	16.83	6.16064
17.32	18.8652	17.32	23.8111	17.32	2.63342	20.4	-36.5038	17.32	14.5229	17.32	14.3853	16.99	13.7124

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
17.48	24.3516	17.48	23.6539	17.48	10.5049	20.56	-29.5463	17.48	6.03027	17.48	23.2051	17.15	18.2549
17.64	16.8887	17.65	23.4475	17.64	10.5679	20.72	-30.2674	17.64	9.85547	17.64	14.2866	17.32	13.6436
17.81	5.54053	17.81	23.2748	17.81	5.29028	20.89	-27.5754	17.81	14.0239	17.81	16.1787	17.48	19.8447
17.97	23.9746	17.97	23.0651	17.97	5.21143	21.05	-26.9756	17.97	18.0488	17.97	8.95703	17.64	16.7334
18.14	14.6943	18.14	22.7912	18.14	2.58704	21.21	-27.5754	18.14	19.9883	18.14	19.5127	17.81	12.1577
18.3	18.2451	18.3	22.5426	18.3	18.1191	21.38	-25.851	18.3	13.9189	18.3	17.5313	17.97	15.1768
18.46	20.0332	18.46	22.3737	18.46	7.80127	21.54	-30.2674	18.46	3.98816	18.46	17.6914	18.14	18.4365
18.63	18.3945	18.63	22.1068	18.63	12.8994	21.71	-28.2025	18.63	28.04	18.63	24.7588	18.3	16.9131
18.79	31.9502	18.79	21.8729	18.79	7.74854	21.87	-34.4743	18.79	22.4102	18.79	26.4697	18.46	16.9063
18.95	19.3857	18.96	21.7401	18.95	15.6328	22.03	-33.5419	18.95	26.0605	18.95	22.8789	18.63	21.4443
19.12	20.6777	19.12	21.557	19.12	20.8662	22.2	-36.5038	19.12	20.2109	19.12	24.7363	18.79	23.084
19.28	22.2852	19.28	21.4966	19.28	20.6777	22.36	-37.6108	19.28	14.5024	19.28	10.6768	18.95	13.8779
19.44	24.2295	19.45	21.4366	19.44	15.6348	22.52	-36.5038	19.44	12.5244	19.44	14.2363	19.12	26.041
19.61	11.166	19.61	21.4366	19.61	15.7285	22.69	-34.4743	19.61	22.5068	19.61	17.7529	19.28	27.543
19.77	34.8262	19.77	21.5657	19.77	26.2627	22.85	-36.5038	19.77	22.2959	19.77	19.6055	19.44	27.5361
19.94	24.0596	19.94	21.705	19.94	18.2959	23.01	-42.8032	19.94	16.1826	19.94	21.4189	19.61	12.23
20.1	31.1865	20.1	21.8284	20.1	7.86572	23.18	-42.8032	20.1	32.3125	20.1	10.7036	19.77	34.9141
20.26	23.7871	20.26	21.9443	20.26	15.8027	23.34	-49.6589	20.26	27.9688	20.26	15.9873	19.94	18.1748
20.43	20.0576	20.43	22.0886	20.43	5.21753	23.51	-41.3752	20.43	19.9619	20.43	21.3906	20.1	25.8594
20.59	10.9766	20.59	22.1981	20.59	18.1016	23.67	-44.3333	20.59	23.96	20.59	10.6191	20.26	28.7129
20.75	21.8867	20.76	22.3365	20.75	18.0977	23.83	-41.3752	20.75	21.8887	20.75	8.84229	20.43	16.6865
20.92	21.7715	20.92	22.4578	20.92	10.3579	24	-44.3333	20.92	15.6606	20.92	22.833	20.59	13.7822
21.08	20.4414	21.08	22.6567	21.08	15.522	24.16	-44.3333	21.08	11.5664	21.08	12.356	20.75	27.9746
21.24	22.9639	21.25	22.9078	21.24	10.2896	24.32	-49.6589	21.24	25.1299	21.24	10.6025	20.92	20.0986
21.41	18.5039	21.41	23.1545	21.41	10.271	24.49	-42.8032	21.41	23.2803	21.41	5.25659	21.08	15.3525
21.57	28.8555	21.57	23.427	21.57	13.0088	24.65	-47.747	21.57	13.6836	21.57	19.3633	21.24	24.6904
21.74	15.9722	21.74	23.727	21.74	15.8086	24.81	-51.7303	21.74	16.1494	21.74	7.16138	21.41	12.2871
21.9	24.8311	21.9	23.9277	21.9	15.7314	24.98	-47.747	21.9	14.2061	21.9	10.7666	21.57	12.1753
22.06	18.2217	22.06	23.9918	22.06	18.3301	25.14	-41.3752	22.06	4.08862	22.06	24.9258	21.74	12.1802
22.23	19.7891	22.23	23.9597	22.23	23.7227	25.3	-44.3333	22.23	23.9678	22.23	8.93018	21.9	19.6152
22.39	32.0156	22.39	23.8745	22.39	18.4619	25.47	-42.8032	22.39	18.0264	22.39	3.58777	22.06	13.7241
22.55	14.1851	22.56	23.8639	22.55	2.61121	25.63	-44.3333	22.55	11.8013	22.55	17.8174	22.23	13.6016
22.72	28.124	22.72	23.6643	22.72	12.8857	25.8	-41.3752	22.72	13.625	22.72	3.5293	22.39	18.1143
22.88	22.3701	22.88	23.5193	22.88	12.9463	25.96	-47.747	22.88	15.5361	22.88	14.0356	22.55	18.0889
23.04	20.8428	23.05	23.2849	23.04	12.9795	26.12	-47.747	23.04	27.7598	23.04	10.5918	22.72	24.4102
23.21	13.8379	23.21	23.1047	23.21	15.4839	26.29	-42.8032	23.21	13.4434	23.21	21.2051	22.88	3.06445
23.37	14.0356	23.37	22.7912	23.37	12.8975	26.45	-42.8032	23.37	22.9678	23.37	17.6582	23.04	13.8008
23.54	18.9336	23.54	22.4672	23.54	18.1768	26.61	-41.3752	23.54	21.2197	23.54	22.8857	23.21	16.8408
23.7	21.4717	23.7	22.1615	23.7	13.001	26.78	-47.747	23.7	25.0801	23.7	22.9756	23.37	18.3945
23.86	14.5313	23.86	21.7842	23.86	18.1289	26.94	-41.3752	23.86	9.81592	23.86	19.584	23.54	16.916
24.03	15.4873	24.03	21.4966	24.03	15.6411	27.1	-41.3752	24.03	13.5156	24.03	8.88477	23.7	16.7275
24.19	32.3281	24.19	21.2166	24.19	15.7759	27.27	-44.3333	24.19	23.8857	24.19	17.7363	23.86	25.9316
24.35	21.916	24.36	20.9193	24.35	10.5293	27.43	-41.3752	24.35	12.0303	24.35	19.6611	24.03	21.3369
24.52	25.957	24.52	20.7017	24.52	18.3428	27.6	-51.7303	24.52	19.9561	24.52	14.2661	24.19	18.2354
24.68	16.8037	24.68	20.5356	24.68	15.7217	27.76	-42.8032	24.68	19.7148	24.68	8.9375	24.35	9.05566
24.84	38.7207	24.85	20.3567	24.84	13.1396	27.92	-42.8032	24.84	11.7451	24.84	19.5332	24.52	10.5337
25.01	23.7891	25.01	20.196	25.01	13.0571	28.09	-42.8032	25.01	29.3418	25.01	8.89502	24.68	18.1172
25.17	19.9707	25.17	20.0379	25.17	18.1152	28.25	-47.747	25.17	25.3984	25.17	7.07471	24.84	18.0615
25.34	25.6201	25.34	19.8528	25.34	10.3208	28.41	-49.6589	25.34	17.5059	25.34	17.6973	25.01	15.105
25.5	47.1055	25.5	19.7725	25.5	10.3511	28.58	-49.6589	25.5	26.0039	25.5	14.0479	25.17	28.9775
25.66	25.3789	25.66	19.6928	25.66	20.7002	28.74	-49.6589	25.66	9.58447	25.66	22.9189	25.34	20.0254
25.83	29.4414	25.83	19.664	25.83	10.2827	28.9	-51.7303	25.83	21.2617	25.83	15.873	25.5	15.2646
25.99	12.8662	25.99	19.6784	25.99	15.4468	29.07	-53.982	25.99	1.8985	25.99	10.5005	25.66	12.2246
26.15	22.3652	26.16	19.7289	26.15	5.22095	29.23	-47.747	26.15	33	26.15	12.3589	25.83	13.8052
26.32	16.8623	26.32	19.8309	26.32	13.1689	29.4	-62.0899	26.32	18.0244	26.32	7.14282	25.99	7.61914
26.48	30.251	26.48	20.0454	26.48	34.1094	29.56	-59.1296	26.48	22.2285	26.48	14.293	26.15	18.1523
26.64	28.5693	26.65	20.2036	26.64	18.3623	29.72	-103.574	26.64	11.8423	26.64	7.11621	26.32	9.02246
26.81	26.2783	26.81	20.3182	26.81	10.541	29.89	-113.012	26.81	7.8855	26.81	25.0342	26.48	4.51758
26.97	16.5361	26.97	20.5356	26.97	21.1123	30.05	-155.531	26.97	13.6357	26.97	8.97998	26.64	18.1982
27.14	20.3848	27.14	20.7497	27.14	15.6143	30.21	-155.531	27.14	15.6069	27.14	10.7241	26.81	12.1064
27.3	21.75	27.3	20.8705	27.3	7.71265	30.38	-417.034	27.3	13.5537	27.3	14.1509	26.97	9.07129
27.46	18.9287	27.46	21.0092	27.46	15.5566	30.54	-1273.55	27.46	21.3779	27.46	22.874	27.14	7.57471
27.63	7.61914	27.63	21.1498	27.63	18.1709	30.7	1208.5	27.63	15.5767	27.63	14.1509	27.3	19.9346
27.79	17.2627	27.79	21.3599	27.79	18.0518	30.87	137.397	27.79	16.2666	27.79	7.08276	27.46	15.3159
27.95	19.2646	27.95	21.6787	27.95	12.9194	31.03	123.693	27.95	22.4512	27.95	17.6699	27.63	9.15723
28.12	15.1157	28.12	22.0343	28.12	20.7725	31.2	77.384	28.12	10.0083	28.12	15.7993	27.79	19.7852
28.28	13.3179	28.28	22.3551	28.28	28.6484	31.36	61.9274	28.28	15.8184	28.28	10.5898	27.95	15.3506
28.44	18.8584	28.45	22.5521	28.44	15.501	31.52	44.2504	28.44	14.8467	28.44	16.0391	28.12	20.0068
28.61	24.3223	28.61	22.8202	28.61	18.2334	31.69	38.7236	28.61	32.3301	28.61	14.1914	28.28	7.61816
28.77	28.3379	28.77	22.9567	28.77	10.4956	31.85	36.4475	28.77	13.8955	28.77	23.0088	28.44	19.8652
28.93	13.2212	28.94	23.0651	28.93	28.9639	32.01	30.2288	28.93	19.7578	28.93	19.5771	28.61	10.6685
29.1	13.0669	29.1	23.0552	29.1	10.4487	32.18	25.2961	29.1	6.01855	29.1	12.4624	28.77	9.17822
29.26	16.8438	29.26	22.996	29.26	10.4409	32.34	22.955	29.26	14.0313	29.26	14.2554	28.93	18.1885
29.43	16.7393	29.43	22.9763	29.43	18.3203	32.5	21.3726	29.43	11.9448	29.43	8.87158	29.1	18.1787
29.59	22.1113	29.59	22.859	29.59	10.3828	32.67	19.9943	29.59	17.8799	29.59	17.7139	29.26	12.1978
29.75	5.6062	29.75	22.8299	29.75	10.332	32.83	18.2308	29.75	9.89795	29.75	14.147	29.43	28.6348
29.92	11.5625	29.92	22.8299	29.92	10.1992	33	15.6932	29.92	7.98145	29.92	17.6201	29.59	15.1733
30.08	23.1016	30.08	22.8493	30.08	12.8555	33.16	14.7593	30.08	10.1274	30.08	17.5459	29.75	18.3789
30.24	20.9521	30.25	22.9371	30.24	7.76904	33.32	12.9149	30.24	17.9893	30.24	17.5977	29.92	12.3506
30.41	19.207	30.41	22.9861	30.41	30.7168	33.49	11.8082	30.41	18.3389	30.41	22.8701	30.08	19.877
30.57	15.2827	30.57	22.9861	30.57	7.71533	33.65	11.0704	30.57	14.5044	30.57	26.2588	30.24	12.2681
30.73	20.7559	30.74	22.996	30.73	13.0342	33.81	10.5974	30.73	10.3047	30.73	24.7598	30.41	16.835
30.9	18.8584	30.9	22.9273	30.9	5.28174	33.98	9.61178	30.9	16.1406	30.9	19.625	30.57	21.2725
31.06	22.624	31.06	22.9273	31.06	13.1382	34.14	9.39338	31.06	8.05225	31.06	12.5337	30.73	18.123
31.23	17.0645	31.23	22.743	31.23	13.1055	34.3	8.79391	31.23	13.7549	31.23	8.89307	30.9	13.4561
31.39	26.123	31.39	22.6185	31.39	13.1802	34.47	8.61074	31.39	21.5391	31.39	19.6123	31.06	22.4863
31.55	11.1699	31.55	22.4954	31.55	18.4297	34.63	8.4928	31.55	15.7222	31.55	8.9624	31.23	10.5928
31.72	11.166	31.72	22.3179	31.72	18.1953	34.8	8.55136	31.72	6.80688	31.72	26.7744	31.39	27.0859
31.88	14.9033	31.88	22.1068	31.88	20.5195	34.96	8.55136	31.88	21.2373	31.88	12.3779	31.55	15.085
32.04	12.98	32.05	21.9353	32.04	23.3516	35.12	8.26637	32.04	14.9165	32.04	15.8022	31.72	15.002
32.21	29.5117	32.21	21.7489	32.21	15.5903	35.29	8.55136	32.21	12.645	32.21	7.05103	31.88	15.2021
32.37	26.4863	32.37	21.4623	32.37	12.8804	35.45	8.85671	32.37	14.7983	32.37	7.07349	32.04	25.8672

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
32.53	20.7178	32.54	21.0669	32.53	12.8994	35.61	8.98504	32.53	15.0161	32.53	15.8857	32.21	19.6934
32.7	20.7275	32.7	20.7177	32.7	18.1973	35.78	8.98504	32.7	19.541	32.7	19.3555	32.37	9.15723
32.86	13.2031	32.86	20.3876	32.86	18.2109	35.94	9.2532	32.86	23.4902	32.86	7.08325	32.53	16.7979
33.03	26.4736	33.03	20.0379	33.03	15.585	36.1	9.61178	33.03	14.8179	33.03	17.833	32.7	12.2354
33.19	24.6572	33.19	19.7871	33.19	20.8516	36.27	10.2471	33.19	16.751	33.19	10.6675	32.86	15.1694
33.35	14.9722	33.35	19.5282	33.35	18.5186	36.43	10.3325	33.35	2.08228	33.35	19.5068	33.03	27.3203
33.52	29.7695	33.52	19.3454	33.52	7.86475	36.6	10.6887	33.52	8.65234	33.52	14.2319	33.19	18.0703
33.68	31.4609	33.68	19.2415	33.68	15.7334	36.76	11.4803	33.68	23.7402	33.68	10.6914	33.35	18.2285
33.84	20.2734	33.85	19.0912	33.84	13.0913	36.92	11.5876	33.84	6.3811	33.84	23.2012	33.52	10.542
34.01	20.0459	34.01	18.9498	34.01	28.7793	37.09	11.8082	34.01	16.8887	34.01	24.7998	33.68	15.0405
34.17	27.3477	34.17	18.8965	34.17	20.8096	37.25	12.9149	34.17	29.4678	34.17	15.9722	33.84	16.6221
34.33	23.1309	34.34	18.8369	34.33	10.3506	37.41	12.7818	34.33	8.4209	34.33	15.9019	34.01	22.4697
34.5	26.1396	34.5	18.7842	34.5	7.72681	37.58	13.0508	34.5	12.6201	34.5	14.0859	34.17	15.1094
34.66	18.7432	34.66	18.7908	34.66	10.3389	37.74	14.0887	34.66	25.0879	34.66	10.5234	34.33	19.8281
34.83	27.9229	34.83	18.9031	34.83	12.9604	37.9	14.7593	34.83	8.38281	34.83	19.3604	34.5	16.8633
34.99	18.9219	34.99	18.99	34.99	12.8252	38.07	16.3124	34.99	15.1431	34.99	8.77979	34.66	13.7539
35.15	32.334	35.15	19.0912	35.15	15.4287	38.23	17.2183	35.15	10.8452	35.15	7.02881	34.83	21.3701
35.32	18.6621	35.32	19.2072	35.32	2.61377	38.4	16.7531	35.32	12.6929	35.32	14.1567	34.99	16.9346
35.48	18.7236	35.48	19.3454	35.48	21.082	38.56	17.7101	35.48	16.5322	35.48	21.3418	35.15	16.793
35.64	16.9531	35.65	19.514	35.64	13.1353	38.72	16.5298	35.64	6.52319	35.64	12.5186	35.32	9.03906
35.81	24.1191	35.81	19.7072	35.81	10.4731	38.89	15.8943	35.81	12.958	35.81	24.8877	35.48	13.5386
35.97	25.6543	35.97	20.0081	35.97	13.2168	39.05	13.4763	35.97	10.5825	35.97	17.8037	35.64	10.501
36.13	29.2305	36.14	20.3413	36.13	36.7402	39.21	12.2757	36.13	8.38184	36.13	21.4238	35.81	15.0947
36.3	21.4922	36.3	20.6858	36.3	25.8965	39.38	10.3325	36.3	12.4873	36.3	21.2822	35.97	15.0869
36.46	14.7197	36.46	21.0092	36.46	17.9805	39.54	9.2532	36.46	12.3901	36.46	8.78223	36.13	8.9873
36.63	36.4258	36.63	21.3854	36.63	12.9814	39.7	8.26637	36.63	2.05298	36.63	22.7061	36.3	18.1299
36.79	30.8418	36.79	21.6875	36.79	12.938	39.87	7.60719	36.79	12.373	36.79	12.3105	36.46	16.6992
36.95	14.4272	36.95	22.0705	36.95	15.4922	40.03	6.77592	36.95	22.8057	36.95	10.6006	36.63	12.2017
37.12	30.9053	37.12	22.4578	37.12	15.5083	40.19	6.01948	37.12	14.4097	37.12	7.04712	36.79	4.54907
37.28	19.9316	37.28	22.8299	37.28	12.9463	40.36	5.43872	37.28	18.8516	37.28	27.9854	36.95	16.6494
37.44	35.373	37.45	23.2748	37.44	15.6353	40.52	5.04081	37.44	17.3984	37.44	19.4121	37.12	15.3032
37.61	22.2354	37.61	23.8322	37.61	10.354	40.69	4.57584	37.61	12.9019	37.61	28.5293	37.28	15.1978
37.77	14.9219	37.77	24.2297	37.77	15.6323	40.85	4.17529	37.77	8.47656	37.77	19.4541	37.44	16.7324
37.93	21.625	37.94	24.7429	37.93	13.1802	41.01	3.8039	37.93	10.5142	37.93	10.6191	37.61	13.5605
38.1	16.6816	38.1	25.3021	38.1	18.3125	41.18	3.60488	38.1	4.20532	38.1	8.89404	37.77	16.6523
38.26	10.9883	38.26	25.763	38.26	13.0728	41.34	3.46391	38.26	2.10095	38.26	10.7188	37.93	16.6641
38.43	25.4473	38.43	26.1771	38.43	15.6548	41.5	3.31573	38.43	6.20825	38.43	21.3975	38.1	19.4609
38.59	18.1416	38.59	26.7105	38.59	13.0698	41.67	3.25482	38.59	8.32373	38.59	8.85791	38.26	12.0708
38.75	21.7549	38.75	27.1148	38.75	0	41.83	3.21266	38.75	4.05322	38.75	14.2251	38.43	25.4297
38.92	14.4482	38.92	27.5598	38.92	10.3472	41.99	3.17158	38.92	10.2188	38.92	17.7109	38.59	20.9375
39.08	19.8369	39.08	27.9177	39.08	12.8911	42.16	3.14743	39.08	10.1567	39.08	15.9087	38.75	21.2285
39.24	24.8633	39.25	28.285	39.24	10.3828	42.32	3.1158	39.24	6.05566	39.24	10.5029	38.92	10.6147
39.41	25.9893	39.41	28.5555	39.41	10.3833	42.49	3.0925	39.41	5.99438	39.41	21.1475	39.08	15.2788
39.57	25.4238	39.57	28.94	39.57	15.4146	42.65	3.07715	39.57	13.7095	39.57	15.2827	39.24	12.2012
39.73	16.4209	39.74	29.1756	39.73	12.8916	42.81	3.07715	39.73	6.06958	39.73	25.0088	39.41	18.1826
39.9	30.9297	39.9	29.3991	39.9	13.0806	42.98	3.14743	39.9	6.38428	39.9	17.1855	39.57	19.9482
40.06	14.4604	40.06	29.6423	40.06	18.5645	43.14	3.21266	40.06	4.23218	40.06	12.5962	39.73	15.0835
40.23	14.5933	40.23	29.6587	40.23	13.146	43.3	3.31573	40.23	8.31592	40.23	26.7637	39.9	10.5698
40.39	18.417	40.39	29.6423	40.39	13.0913	43.47	3.40682	40.39	8.36914	40.39	12.5195	40.06	8.93164
40.55	20.8506	40.55	29.6096	40.55	10.604	43.63	3.73516	40.55	6.32861	40.55	25.2695	40.23	11.9658
40.72	29.8105	40.72	29.5121	40.72	21.0615	43.79	3.8039	40.72	16.6934	40.72	25.1582	40.39	17.0869
40.88	25.001	40.88	29.4313	40.88	25.8496	43.96	3.93673	40.88	14.5444	40.88	24.9141	40.55	13.4409
41.04	16.0439	41.04	29.3189	41.04	17.9043	44.12	4.2036	41.04	12.2197	41.04	28.1211	40.72	17.0049
41.21	13.647	41.21	29.0495	41.21	23.1816	44.29	4.38183	41.21	2.00867	41.21	22.5137	40.88	20.2871
41.37	23.7871	41.37	28.8004	41.37	12.9795	44.45	4.46063	41.37	10.1294			41.04	11.1177
41.53	15.8569	41.54	28.5555	41.53	23.1807	44.61	4.50929	41.53	5.64355			41.21	9.86084
41.7	14.9819	41.7	28.1812	41.7	23.2295	44.78	4.46063	41.7	14.2661			41.37	15.1372
41.86	18.5313	41.86	27.6875	41.86	7.79517	44.94	4.27607	41.86	12.0381			41.53	19.2363
42.02	22.1758	42.03	27.3355	42.02	23.4365	45.1	4.00022	42.02	14.2275				
42.19	20.3477	42.19	26.8708	42.19	23.3438	45.27	3.78071	42.19	12.2744				
42.35	32.9434	42.35	26.4346	42.35	18.2803	45.43	3.57371	42.35	10.7358				
42.52	30.9658	42.52	25.912	42.52	18.4072	45.59	3.43513	42.52	4.12769				
42.68	23.3643	42.68	25.579	42.68	23.5879	45.76	3.2981	42.68	14.6226				
42.84	16.4111	42.84	25.2071	42.84	20.9932	45.92	3.15544	42.84	12.6235				
43.01	24.1113	43.01	25.0193	43.01	7.82129	46.09	2.95965	43.01	8.39355				
43.17	19.8447	43.17	24.9728	43.17	10.4399	46.25	2.78674	43.17	6.24658				
43.33	25.9434	43.34	25.0777	43.33	18.0674	46.41	2.5412	43.33	16.499				
43.5	19.7383	43.5	25.4579	43.5	12.8594	46.58	2.35762	43.5	12.2217				
43.66	30.6826	43.66	25.726	43.66	33.5527	46.74	2.23444	43.66	6.17749				
43.82	19.5898	43.83	26.2538	43.82	28.4482	46.9	2.13445	43.82	6.12622				
43.99	25.46	43.99	26.8977	43.99	18.1719	47.07	2.12713	43.99	4.02393				
44.15	27.4609	44.15	27.4612	44.15	12.8936	47.23	2.09834	44.15	2.02405				
44.32	21.6426	44.32	28.1222	44.32	18.1328	47.39	2.12713	44.32	12.1353				
44.48	22.1211	44.48	28.7542	44.48	20.9424	47.56	2.11986	44.48	2.05115				
44.64	22.9609	44.64	29.3991	44.64	18.5127	47.72	2.11986	44.64	8.10742				
44.81	21.2256	44.81	29.9729	44.81	10.5234	47.89	2.09834	44.81	6.0835				
44.97	18.208	44.97	30.483	44.97	18.3057	48.05	2.08774	44.97	6.22388				
45.13	25.5723	45.14	30.7974	45.13	10.521	48.21	2.09126	45.13	6.37646				
45.3	12.7495	45.3	31.0107	45.3	15.7197	48.38	2.08774	45.3	10.3687				
45.46	16.207	45.46	31.2088	45.46	15.4658	48.54	2.09479	45.46	14.4072				
45.62	19.7295	45.63	31.3727	45.62	12.7251	48.7	2.11263	45.62	6.07544				
45.79	19.5684	45.79	31.4278	45.79	35.9805	48.87	2.12349	45.79	5.96045				
45.95	17.8789	45.95	31.391	45.95	7.79492	49.03	2.1833	45.95	7.98926				
46.12	16.2568	46.12	31.4278	46.12	7.75269	49.19	2.22243	46.12	6.06543				
46.28	27.5049	46.28	31.4462	46.28	15.5405	49.36	2.30504	46.28	10.1138				
46.44	15.5947	46.44	31.245	46.44	18.2012	49.52	2.42683	46.44	3.98242				
46.61	17.7676	46.61	31.2088	46.61	31.2656	49.69	2.52054	46.61	9.91553				
46.77	11.7144	46.77	31.3727	46.77	18.1309	49.85	2.73753	46.77	1.99744				
46.93	19.6406	46.94	32.3744	46.93	31.3066	50.01	2.89742	46.93	6.10718				
47.1	12.7017	47.1	34.9424	47.1	15.77	50.18	3.13947	47.1	3.99731				
47.26	13.7993	47.26	36.5588	47.26	15.6689	50.34	3.3882	47.26	6.10889				
47.42	18.0156	47.43	31.2269	47.42	23.4131	50.5	3.73516	47.42	6.29175				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
47.59	19.4121	47.59	26.8708	47.59	20.7402	50.67	3.89959	47.59	10.3882				
47.75	12.5684	47.75	25.4097	47.75	15.6387	50.83	4.2036	47.75	6.06714				
47.92	14.2847	47.92	24.4169	47.92	35.957	50.99	4.52574	47.92	8.00928				
48.08	16.1543	48.08	23.7479	48.08	28.2363	51.16	4.98008	48.08	7.85791				
48.24	7.24756	48.24	25.4699	48.24	12.8574	51.32	5.41498	48.24	5.93628				
48.41	16.251	48.41	28.7234	48.41	10.3481	51.49	5.76754	48.41	1.98749				
48.57	14.7168	48.57	30.2258	48.57	18.1123	51.65	6.10843	48.57	7.96802				
48.73	12.7534	48.74	31.0107	48.73	12.8687	51.81	6.359	48.73	11.9463				
48.9	12.6572	48.9	31.6126	48.9	15.4692	51.98	6.66665	48.9	7.86743				
49.06	10.4263	49.06	30.727	49.06	20.8975	52.14	6.66665	49.06	7.86401				
49.22	22.1016	49.23	30.0736	49.22	21.084	52.3	6.88884	49.22	5.89697				
49.39	23.8809	49.39	30.0064	49.39	15.6973	52.47	6.88884	49.39	3.94006				
49.55	21.8486	49.55	30.141	49.55	12.9946	52.63	6.96623	49.55	7.90381				
49.72	16.2207	49.72	30.294	49.72	21.0615	52.79	6.92732	49.72	9.92871				
49.88	14.1777	49.88	30.4312	49.88	23.3604	52.96	6.88884	49.88	13.9927				
50.04	14.1387	50.04	30.483	50.04	23.1846	53.12	6.77592	50.04	9.64209				
50.21	15.8086	50.21	30.6045	50.21	15.2124	53.28	6.66665	50.21	9.53613				
50.37	13.9956	50.37	30.6919	50.37	23.1455	53.45	6.45835	50.37	11.459				
50.53	15.9063	50.54	30.8327	50.53	23.4287	53.61	6.359	50.53	7.74072				
50.7	8.99609	50.7	31.0824	50.7	12.8936	53.78	6.20005	50.7	11.6436				
50.86	22.0244	50.86	31.2088	50.86	2.59729	53.94	6.10843	50.86	5.94751				
51.02	16.2773	51.03	31.2814	51.02	10.3813	54.1	5.82169	51.02	9.73828				
51.19	19.9082	51.19	31.2814	51.19	20.8838	54.27	5.51123	51.19	15.4531				
51.35	30.9033	51.35	31.3179	51.35	18.1416	54.43	5.41498	51.35	7.87427				
51.52	23.6797	51.52	31.4278	51.52	13.0503	54.59	4.98008	51.52	19.4805				
51.68	23.1875	51.68	31.5384	51.68	18.3682	54.76	4.69715	51.68	12.2178				
51.84	24.8242	51.84	31.6499	51.84	5.20361	54.92	4.54232	51.84	6.34082				
52.01	25.1543	52.01	31.6126	52.01	13.0313	55.08	4.29086	52.01	14.748				
52.17	14.3779	52.17	31.5384	52.17	5.18066	55.25	4.13354	52.17	8.35059				
52.33	17.918	52.34	31.3544	52.33	20.835	55.41	4.0393	52.33	6.0957				
52.5	14.27	52.5	31.2814	52.5	15.3784	55.58	3.97458	52.5	5.84985				
52.66	16.2207	52.66	31.0644	52.66	10.2886	55.74	3.88737	52.66	4.32153				
52.82	12.9028	52.83	30.8327	52.82	17.9941	55.9	3.92427	52.82	6.40552				
52.99	14.8545	52.99	30.4657	52.99	12.9321	56.07	3.97458	52.99	6.30518				
53.15	18.415	53.15	30.2258	53.15	18.1328	56.23	4.0525	53.15	14.7881				
53.32	18.4033	53.32	29.9897	53.32	15.4385	56.39	4.16128	53.32	21.04				
53.48	14.7578	53.48	29.7078	53.48	10.3062	56.56	4.41301	53.48	12.792				
53.64	9.21143	53.64	29.383	53.64	10.4883	56.72	4.67943	53.64	10.8105				
53.81	31.4199	53.81	29.0966	53.81	26.3213	56.88	5.04081	53.81	10.7412				
53.97	16.6514	53.97	28.8622	53.97	7.87915	57.05	5.3681	53.97	6.46289				
54.13	12.5308	54.14	28.6469	54.13	28.4521	57.21	5.66221	54.13	8.58545				
54.3	24.208	54.3	28.4196	54.3	26.2402	57.38	6.20005	54.3	6.40527				
54.46	14.7852	54.46	28.1812	54.46	23.1377	57.54	6.88884	54.46	8.49707				
54.62	20.3301	54.63	28.1075	54.62	20.2773	57.7	7.70168	54.62	8.50586				
54.79	16.7285	54.79	28.005	54.79	22.7803	57.87	8.55136	54.79	4.23682				
54.95	29.6279	54.95	27.9322	54.95	25.7412	58.03	10.2471	54.95	8.29932				
55.11	17.0068	55.12	27.8165	55.11	20.7588	58.19	11.9217	55.11	10.3457				
55.28	26.874	55.28	27.8165	55.28	12.8945	58.36	13.4763	55.28	8.32715				
55.44	19.3877	55.44	27.8598	55.44	12.9785	58.52	17.2183	55.44	10.3804				
55.61	13.2573	55.61	27.8165	55.61	12.9546	58.68	21.0105	55.61	12.4019				
55.77	18.7109	55.77	27.9322	55.77	15.6548	58.85	24.7904	55.77	10.3667				
55.93	26.4199	55.93	28.1075	55.93	20.665	59.01	30.2288	55.93	16.9814				
56.1	26.1816	56.1	28.3447	56.1	25.2051	59.18	38.7236	56.1	6.39941				
56.26	12.9678	56.26	28.5404	56.26	20.8486	59.34	68.7982	56.26	10.6523				
56.42	23.2314	56.43	28.8622	56.42	18.0732	59.5	77.384	56.42	4.229				
56.59	26.5674	56.59	29.1282	56.59	28.334	59.67	409.81	56.59	4.25439				
56.75	22.5498	56.75	29.5283	56.75	17.4639	59.83	-177.833	56.75	6.38672				
56.91	24.042	56.92	29.873	56.91	27.4238	59.99	-82.8228	56.91	10.5493				
57.08	29.5625	57.08	30.141	57.08	7.40674	60.16	-59.1296	57.08	23.0859				
57.24	20.6143	57.24	30.3968	57.24	9.91943	60.32	-51.7303	57.24	8.31445				
57.41	22.7441	57.41	30.4657	57.41	14.8604	60.48	-44.3333	57.41	10.3408				
57.57	18.9102	57.57	30.6219	57.57	17.3965	60.65	-41.3752	57.57	16.4668				
57.73	26.7822	57.73	30.7622	57.73	20.0225	60.81	-44.3333	57.73	6.1709				
57.9	17.2021	57.9	30.8504	57.9	12.3516	60.98	-49.6589	57.9	8.26807				
58.06	20.9473	58.06	30.9214	58.06	22.4834	61.14	-95.5905	58.06	10.2769				
58.22	11.3926	58.23	31.1184	58.22	15.2563	61.3	-249.341	58.22	10.3428				
58.39	15.1841	58.39	31.4278	58.39	15.2051	61.47	88.4182	58.39	10.5562				
58.55	18.9668	58.55	31.3727	58.55	25.0068	61.63	31.7779	58.55	8.46875				
58.71	20.8438	58.72	31.6126	58.71	18.0156	61.79	17.2183	58.71	6.02808				
58.88	27.9941	58.88	31.6872	58.88	20.2832	61.96	11.9217	58.88	16.6738				
59.04	27.9609	59.04	31.7809	59.04	10.0029	62.12	8.61074	59.04	10.5581				
59.21	11.1191	59.21	32.0462	59.21	9.95166	62.28	7.00558	59.21	10.5078				
59.37	26.0049	59.37	32.0845	59.37	14.9604	62.45	5.87686	59.37	14.4922				
59.53	27.5996	59.53	32.2384	59.53	10.1338	62.61	5.32203	59.53	12.25				
59.7	8.41797	59.7	32.3939	59.7	17.8164	62.78	4.88206	59.7	10.0596				
59.86	18.4619	59.86	32.6299	59.86	17.7666	62.94	4.59278	59.86	24.3877				
60.02	22.7451	60.03	32.8895	60.02	15.1699	63.1	4.39736	60.02	12.105				
60.19	13.3921	60.19	32.9905	60.19	15.2876	63.27	4.26137	60.19	20.1943				
60.35	26.6729	60.35	32.95	60.35	30.4648	63.43	4.14737	60.35	22.2715				
60.51	20.957	60.52	32.6894	60.51	15.2891	63.59	4.00022	60.51	32.4102				
60.68	11.5249	60.68	32.3354	60.68	20.2227	63.76	4.0525	60.68	18.7451				
60.84	28.4629	60.84	32.0462	60.84	15.063	63.92	4.0393	60.84	25.25				
61.01	13.0068	61.01	31.4646	61.01	12.8472	64.08	4.09262	61.01	24.9082				
61.17	21.9932	61.17	30.9037	61.17	12.7109	64.25	4.23229	61.17	16.6416				
61.33	14.8936	61.33	30.414	61.33	12.6587	64.41	4.41301	61.33	24.8936				
61.5	18.4912	61.5	30.1918	61.5	32.5313	64.58	4.66184	61.5	16.5234				
61.66	14.7778	61.66	30.0736	61.66	10.1216	64.74	4.90136	61.66	20.3359				
61.82	12.9424	61.83	30.04	61.82	5.04858	64.9	5.06138	61.82	26.6602				
61.99	18.7422	61.99	30.3624	61.99	10.0474	65.07	5.32203	61.99	22.2891				
62.15	31.6709	62.15	31.0107	62.15	12.7007	65.23	5.61097	62.15	20.2432				
62.31	9.28564	62.32	31.6126	62.31	10.1201	65.39	6.07849	62.31	28.2256				
62.48	20.5732	62.48	32.2578	62.48	25.3408	65.56	6.631	62.48	20.1338				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
62.64	28.2178	62.64	32.8292	62.64	17.792	65.72	7.25135	62.64	18.1348				
62.81	14.8384	62.81	33.1533	62.81	15.5112	65.88	7.89786	62.81	21.6934				
62.97	18.6143	62.97	33.6515	62.97	20.5654	66.05	8.55136	62.97	24.5898				
63.13	15.0532	63.13	33.9277	63.13	35.7109	66.21	9.91929	63.13	12.6914				
63.3	20.54	63.3	34.3396	63.3	23.04	66.37	11.0704	63.3	27.0713				
63.46	11.019	63.46	34.7616	63.46	27.9941	66.54	13.0508	63.46	24.6055				
63.62	30.8906	63.63	35.1711	63.62	22.7666	66.7	15.6932	63.62	12.3843				
63.79	12.8745	63.79	35.4729	63.79	19.8477	66.87	17.2183	63.79	22.7891				
63.95	13.0029	63.95	35.4028	63.95	12.5518	67.03	21.0105	63.95	26.5264				
64.11	22.1172	64.12	35.4028	64.11	27.9502	67.19	25.2961	64.11	20.3691				
64.28	25.54	64.28	35.4261	64.28	25.4834	67.36	32.6136	64.28	22.2607				
64.44	12.6836	64.44	35.8037	64.44	22.8506	67.52	49.5549	64.44	14.1973				
64.61	21.7305	64.61	35.9715	64.61	10.1001	67.68	88.4182	64.61	26.3252				
64.77	19.9951	64.77	36.1651	64.77	15.3184	67.85	154.515	64.77	42.4512				
64.93	26.085	64.93	36.4596	64.93	30.7354	68.01	-312.088	64.93	30.4355				
65.1	27.4297	65.1	36.5837	65.1	20.417	68.17	-312.088	65.1	26.3887				
65.26	12.6875	65.26	36.6835	65.26	12.7354	68.34	-103.574	65.26	30.4893				
65.42	20.666	65.43	36.6086	65.42	38.3008	68.5	-65.3624	65.42	18.249				
65.59	14.5649	65.59	36.4596	65.59	15.4453	68.67	-53.982	65.59	36.127				
65.75	14.707	65.75	36.3118	65.75	15.2583	68.83	-41.3752	65.75	28.2441				
65.91	20.1826	65.92	36.3118	65.91	10.041	68.99	-33.5419	65.91	30.9678				
66.08	12.6953	66.08	36.4596	66.08	17.625	69.16	-29.5463	66.08	22.8145				
66.24	12.8096	66.24	36.4102	66.24	15.2939	69.32	-25.851	66.24	26.5635				
66.41	23.5703	66.41	36.4843	66.41	22.7217	69.48	-26.9756	66.41	24.5088				
66.57	16.8418	66.57	36.5837	66.57	22.7285	69.65	-22.5593	66.57	34.3027				
66.73	14.4849	66.73	36.885	66.73	22.9141	69.81	-20.3394	66.73	15.9126				
66.9	26.8301	66.9	37.0375	66.9	17.7715	69.97	-18.7979	66.9	33.9648				
67.06	9.0625	67.06	37.2428	67.06	20.3174	70.14	-16.765	67.06	23.9111				
67.22	14.5933	67.23	37.3983	67.22	12.7593	70.3	-14.9465	67.22	17.874				
67.39	14.6396	67.39	37.6604	67.39	28.3467	70.47	-14.2591	67.39	33.7773				
67.55	14.3066	67.55	37.8994	67.55	20.5137	70.63	-13.7837	67.55	35.8125				
67.71	23.4648	67.72	37.9798	67.71	22.9854	70.79	-12.6582	67.71	36.3164				
67.88	12.7554	67.88	37.953	67.88	12.7261	70.96	-12.5303	67.88	22.3809				
68.04	20.2793	68.04	38.1686	68.04	15.2534	71.12	-11.5932	68.04	36.4531				
68.21	30.9141	68.21	37.8994	68.21	12.564	71.28	-11.5932	68.21	26.2793				
68.37	14.4556	68.37	37.7663	68.37	5.0061	71.45	-10.9775	68.37	24.9297				
68.53	12.9492	68.53	37.953	68.53	15.0972	71.61	-10.337	68.53	30.6113				
68.7	16.3848	68.7	38.2229	68.7	22.874	71.77	-10.337	68.7	13.9663				
68.86	23.833	68.86	38.5519	68.86	17.8594	71.94	-10.2516	68.86	21.499				
69.02	9.07813	69.02	38.6907	69.02	17.7236	72.1	-9.92345	69.02	40.6719				
69.19	16.5186	69.19	39.2559	69.19	7.57788	72.27	-10.0035	69.19	17.5518				
69.35	18.1191	69.35	39.6323	69.35	17.875	72.43	-9.61569	69.35	11.6738				
69.51	16.7793	69.52	39.7201	69.51	17.9922	72.59	-10.0848	69.51	30.7598				
69.68	27.8965	69.68	39.8379	69.68	17.9072	72.76	-10.0848	69.68	27.0479				
69.84	12.8262	69.84	39.9861	69.84	20.3047	72.92	-10.6021	69.84	27.0654				
70	14.6909	70.01	40.1055	70	10.2642	73.08	-10.6021	70	27.6387				
70.17	7.31177	70.17	39.9861	70.17	20.502	73.25	-11.1754	70.17	35.7344				
70.33	14.5913	70.33	39.9267	70.33	20.2695	73.41	-11.0756	70.33	31.6953				
70.5	18.0166	70.5	40.0159	70.5	7.4873	73.57	-11.277	70.5	25.1338				
70.66	21.5918	70.66	39.8379	70.66	27.9287	73.74	-11.7026	70.66	24.5088				
70.82	14.3711	70.82	39.6908	70.82	27.8301	73.9	-11.1754	70.82	22.0977				
70.99	16.3477	70.99	39.6031	70.99	15.106	74.07	-10.9775	70.99	35.4766				
71.15	21.9395	71.15	39.4867	71.15	17.5996	74.23	-10.337	71.15	28.8301				
71.31	14.5938	71.32	39.4867	71.31	10.0889	74.39	-10.2516	71.31	17.9395				
71.48	10.8311	71.48	39.371	71.48	2.54333	74.56	-10.0848	71.48	21.8223				
71.64	19.9561	71.64	39.2559	71.64	2.53735	74.72	-9.76715	71.64	19.9238				
71.8	16.6826	71.81	39.371	71.8	12.7979	74.88	-9.76715	71.8	25.8301				
71.97	26.0361	71.97	39.6031	71.97	15.4771	75.05	-9.61569	71.97	23.5293				
72.13	14.5854	72.13	39.7201	72.13	10.3345	75.21	-9.46885	72.13	42.1309				
72.3	21.9082	72.3	40.0159	72.3	15.4067	75.37	-9.12067	72.3	29.29				
72.46	9.22607	72.46	40.2256	72.46	5.07544	75.54	-9.76715	72.46	27.4443				
72.62	12.7842	72.62	40.4374	72.62	20.2383	75.7	-10.0035	72.62	29.0459				
72.79	16.2617	72.79	40.4679	72.79	17.5479	75.87	-10.4239	72.79	27.0186				
72.95	16.0391	72.95	40.3161	72.95	12.5884	76.03	-11.277	72.95	43.1504				
73.11	14.3896	73.12	40.7131	73.11	10.0518	76.19	-14.9465	73.11	43.0293				
73.28	12.8745	73.28	41.1496	73.28	10.1753	76.36	-20.0112	73.28	36.6523				
73.44	25.6543	73.44	41.6277	73.44	20.377	76.52	-38.7871	73.44	28.9805				
73.6	16.5752	73.61	41.9526	73.6	27.7998	76.68	-312.088	73.6	24.8271				
73.77	14.5732	73.77	42.618	73.77	15.1802	76.85	68.7982	73.77	20.6758				
73.93	26.0303	73.93	43.2004	73.93	7.67383	77.01	32.6136	73.93	30.9502				
74.1	14.9028	74.1	43.7277	74.1	5.1228	77.17	23.3879	74.1	30.9844				
74.26	20.6895	74.26	43.8704	74.26	12.772	77.34	21.0105	74.26	35.1445				
74.42	19.5996	74.42	44.0142	74.42	17.7939	77.5	19.9943	74.42	27.084				
74.59	16.7109	74.59	44.3776	74.59	18.0195	77.67	20.322	74.59	29.5996				
74.75	11.2637	74.75	44.6356	74.75	10.2681	77.83	23.3879	74.75	33.6465				
74.91	18.6475	74.92	44.8592	74.91	10.1108	77.99	29.5095	74.91	18.8281				
75.08	13.0532	75.08	45.085	75.08	15.0693	78.16	36.4475	75.08	37.4199				
75.24	24.0029	75.24	45.085	75.24	2.54346	78.32	42.7259	75.24	29.2285				
75.4	18.6016	75.41	44.8218	75.4	10.1123	78.48	68.7982	75.4	27.0957				
75.57	16.4756	75.57	44.0864	75.57	10.062	78.65	154.515	75.57	29.2305				
75.73	21.8359	75.73	43.2004	75.73	25.1191	78.81	1208.5	75.73	24.9844				
75.9	14.3066	75.9	42.618	75.9	15.1592	78.97	-77.6379	75.9	26.8213				
76.06	23.9258	76.06	41.8872	76.06	7.6416	79.14	-38.7871	76.06	37.2598				
76.22	11.1846	76.22	41.1181	76.22	10.1982	79.3	-29.5463	76.22	43.4297				
76.39	22.2559	76.39	40.4374	76.39	12.7935	79.46	-19.6935	76.39	53.5156				
76.55	20.583	76.55	39.8379	76.55	5.12842	79.63	-17.7234	76.55	43.1465				
76.71	13.0049	76.72	38.8867	76.71	20.5938	79.79	-14.9465	76.71	32.9512				
76.88	22.3301	76.88	38.2773	76.88	10.1782	79.96	-13.058	76.88	23.2793				
77.04	16.8633	77.04	37.7397	77.04	15.1958	80.12	-12.6582	77.04	42.3379				
77.2	16.8105	77.21	37.217	77.2	2.51904	80.28	-11.9277	77.2	37.8047				
77.37	18.627	77.37	36.8344	77.37	15.1699	80.45	-11.1754	77.37	31.3604				
77.53	13.0952	77.53	36.6585	77.53	15.1392	80.61	-10.4239	77.53	25.2656				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
77.7	20.3438	77.7	36.4843	77.7	17.54	80.77	-10.0848	77.7	23.0928				
77.86	14.5815	77.86	36.5091	77.86	15.2554	80.94	-9.46885	77.86	20.7383				
78.02	19.9092	78.02	36.784	78.02	22.7783	81.1	-9.32644	78.02	33.1914				
78.19	21.667	78.19	36.784	78.19	7.56543	81.26	-8.79718	78.19	22.8916				
78.35	18.1816	78.35	36.9103	78.35	12.5796	81.43	-9.12067	78.35	16.5928				
78.51	18.0557	78.52	36.9103	78.51	20.4746	81.59	-9.92345	78.51	26.8701				
78.68	24.0527	78.68	36.9357	78.68	10.2388	81.76	-10.337	78.68	28.9443				
78.84	13.1675	78.84	37.1399	78.84	30.543	81.92	-11.277	78.84	31.2549				
79	11.2783	79.01	37.0375	79	22.918	82.08	-11.5932	79	31.1055				
79.17	13.0605	79.17	37.012	79.17	15.3403	82.25	-11.9277	79.17	45.9902				
79.33	20.2393	79.33	37.0375	79.33	20.4561	82.41	-12.405	79.33	33.8223				
79.5	20.2959	79.5	37.3204	79.5	12.5356	82.57	-12.405	79.5	59.0801				
79.66	16.5244	79.66	37.4504	79.66	7.5686	82.74	-12.5303	79.66	27.0889				
79.82	16.3936	79.82	37.5027	79.82	15.1401	82.9	-12.6582	79.82	31.1279				
79.99	21.8408	79.99	37.5289	79.99	17.6221	83.06	-12.5303	79.99	33.4375				
80.15	31.0449	80.15	37.5289	80.15	25.124	83.23	-12.5303	80.15	21.1221				
80.31	14.5669	80.32	37.5551	80.31	9.99609	83.39	-13.058	80.31	39.7246				
80.48	25.2803	80.48	37.6604	80.48	7.5813	83.56	-12.922	80.48	27.0615				
80.64	18.1289	80.64	38.0605	80.64	5.08667	83.72	-12.922	80.64	28.8027				
80.8	19.7393	80.81	37.9798	80.8	20.4375	83.88	-12.1617	80.8	20.4307				
80.97	18.4375	80.97	38.0605	80.97	12.7612	84.05	-11.9277	80.97	22.3418				
81.13	7.46558	81.13	38.0066	81.13	23.1201	84.21	-11.4859	81.13	26.3721				
81.3	14.8481	81.3	37.953	81.3	20.5645	84.37	-11.1754	81.3	14.1445				
81.46	12.9458	81.46	38.0874	81.46	12.6509	84.54	-11.0756	81.46	32.9375				
81.62	21.7461	81.62	38.1957	81.62	17.6367	84.7	-10.2516	81.62	25.1318				
81.79	21.5957	81.79	38.1686	81.79	15.0391	84.86	-9.61569	81.79	22.9287				
81.95	7.19678	81.95	38.0874	81.95	7.57104	85.03	-9.39711	81.95	30.9414				
82.11	19.9922	82.11	38.1957	82.11	17.5352	85.19	-8.92378	82.11	39.002				
82.28	12.4404	82.28	38.5519	82.28	12.5542	85.36	-8.79718	82.28	30.9316				
82.44	27.3242	82.44	38.9995	82.44	15.1221	85.52	-8.55445	82.44	30.9258				
82.6	21.6826	82.61	39.3998	82.6	17.6631	85.68	-8.55445	82.6	34.5996				
82.77	14.4888	82.77	39.7201	82.77	10.0596	85.85	-8.79718	82.77	16.3936				
82.93	19.9502	82.93	39.9861	82.93	17.6533	86.01	-8.79718	82.93	24.2451				
83.09	14.4063	83.1	40.1955	83.09	22.9316	86.17	-8.61387	83.09	9.96045				
83.26	18.043	83.26	40.1354	83.26	23.0088	86.34	-8.38102	83.26	19.9072				
83.42	12.8101	83.42	39.7495	83.42	33.0469	86.5	-8.38102	83.42	16.0596				
83.59	12.9375	83.59	39.6031	83.59	22.9277	86.66	-8.61387	83.59	16.0107				
83.75	12.8472	83.75	39.4577	83.75	17.9385	86.83	-8.38102	83.75	16.1904				
83.91	23.3125	83.91	39.2846	83.91	7.61621	86.99	-8.32476	83.91	10.2607				
84.08	18.0898	84.08	39.1416	84.08	27.7891	87.16	-8.38102	84.08	18.3477				
84.24	27.1201	84.24	39.2559	84.24	12.5737	87.32	-8.49585	84.24	18.4443				
84.4	25.0146	84.41	39.0846	84.4	27.7871	87.48	-8.32476	84.4	22.166				
84.57	18.7373	84.57	39.0846	84.57	12.6567	87.65	-8.73522	84.57	24.1807				
84.73	21.832	84.73	39.3421	84.73	20.1309	87.81	-8.92378	84.73	22.0137				
84.89	30.8252	84.9	39.5739	84.89	17.5732	87.97	-8.86003	84.89	15.8296				
85.06	12.6265	85.06	39.9861	85.06	10.1792	88.14	-9.76715	85.06	15.668				
85.22	12.665	85.22	40.1955	85.22	23.2051	88.3	-10.2516	85.22	11.5371				
85.39	25.3018	85.39	40.0159	85.39	15.4209	88.46	-12.1617	85.39	17.3838				
85.55	16.4072	85.55	39.6908	85.55	7.68433	88.63	-14.2591	85.55	28.7305				
85.71	19.7393	85.71	39.4867	85.71	2.58826	88.79	-16.1116	85.71	7.82886				
85.88	21.8691	85.88	39.1416	85.88	5.14087	88.96	-19.6935	85.88	19.5498				
86.04	9.06152	86.04	38.7465	86.04	10.187	89.12	-21.0292	86.04	9.66016				
86.2	12.5981	86.21	38.3046	86.2	17.6445	89.28	-18.5173	86.2	9.42188				
86.37	23.3164	86.37	37.5814	86.37	7.62427	89.45	-17.9803	86.37	13.9468				
86.53	17.8828	86.53	37.1399	86.53	33.0781	89.61	-16.765	86.53	6.11499				
86.69	15.9487	86.7	36.6585	86.69	7.59424	89.77	-15.7036	86.69	10.0234				
86.86	24.9053	86.86	36.2139	86.86	10.147	89.94	-14.2591	86.86	12.0083				
87.02	17.6299	87.02	35.9715	87.02	27.9746	90.1	-13.6322	87.02	11.8945				
87.19	12.2813	87.19	35.5903	87.19	17.876	90.26	-13.484	87.19	9.52783				
87.35	17.4063	87.35	34.897	87.35	27.8799	90.43	-13.6322	87.35	22.9648				
87.51	15.7192	87.51	34.3835	87.51	12.7773	90.59	-12.1617	87.51	18.7441				
87.68	22.5537	87.68	33.5674	87.68	20.6758	90.76	-11.5932	87.68	18.1563				
87.84	26.0479	87.84	32.4722	87.84	12.8848	90.92	-10.9775	87.84	11.5063				
88	21.0674	88.01	31.2996	88	23.1182	91.08	-10.6936	88	21.6201				
88.17	14.5547	88.17	30.3624	88.17	22.9678	91.25	-11.1754	88.17	5.81982				
88.33	12.1929	88.33	29.383	88.33	5.13989	91.41	-12.6582	88.33	3.84167				
88.49	19.46	88.5	28.4196	88.49	12.6992	91.57	-13.484	88.49	7.552				
88.66	10.7314	88.66	27.6164	88.66	12.7031	91.74	-14.7686	88.66	8.25439				
88.82	12.4316	88.82	27.0058	88.82	5.02954	91.9	-16.1116	88.82	11.9956				
88.99	15.7207	88.99	26.5128	88.99	5.07715	92.06	-17.4737	88.99	5.96948				
89.15	27.4736	89.15	26.1389	89.15	10.1528	92.23	-17.4737	89.15	15.625				
89.31	18.9658	89.31	25.8497	89.31	17.625	92.39	-18.7979	89.31	17.5029				
89.48	10.5415	89.48	25.4579	89.48	20.2178	92.55	-17.4737	89.48	9.66406				
89.64	18.9756	89.64	25.2071	89.64	7.68823	92.72	-17.4737	89.64	17.2578				
89.8	24.2471	89.81	24.9265	89.8	20.6689	92.88	-16.765	89.8	13.4243				
89.97	17.542	89.97	24.5844	89.97	15.4087	93.05	-16.765	89.97	13.6128				
90.13	21.7148	90.13	24.3285	90.13	22.9883	93.21	-15.3157	90.13	15.5122				
90.29	9.12598	90.3	24.121	90.29	23.2705	93.37	-15.1289	90.29	27.0313				
90.46	23.3154	90.46	23.8745	90.46	10.2861	93.54	-13.6322	90.46	21.2012				
90.62	17.584	90.62	23.6643	90.62	17.7275	93.7	-12.5303	90.62	7.76709				
90.79	28.374	90.79	23.4475	90.79	12.6157	93.86	-12.5303	90.79	24.3359				
90.95	22.9268	90.95	23.1845	90.95	10.1782	94.03	-11.4859	90.95	13.8677				
91.11	22.4707	91.11	22.996	91.11	25.415	94.19	-11.9277	91.11	36.0313				
91.28	14.6582	91.28	22.859	91.28	15.2222	94.35	-11.277	91.28	18.0488				
91.44	29.1416	91.44	22.8493	91.44	7.573	94.52	-11.9277	91.44	23.4805				
91.6	17.8691	91.61	22.8882	91.6	15.3423	94.68	-12.405	91.6	14.6255				
91.77	26.5293	91.77	23.0157	91.77	7.64038	94.85	-12.6582	91.77	14.0298				
91.93	30.2256	91.93	23.0354	91.93	30.5557	95.01	-13.058	91.93	22.2236				
92.09	26.6807	92.1	23.0552	92.09	17.9395	95.17	-13.484	92.09	17.8008				
92.26	17.6895	92.26	23.0651	92.26	43.7188	95.34	-13.058	92.26	15.9194				
92.42	36.0645	92.42	23.0948	92.42	10.3257	95.5	-13.7837	92.42	20.8418				
92.59	35.0742	92.59	23.1147	92.59	20.4941	95.66	-13.197	92.59	18.6387				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
92.75	35.2578	92.75	23.2245	92.75	23.0137	95.83	-13.197	92.75	8.3208				
92.91	29.2813	92.91	23.4475	92.91	28.04	95.99	-14.0971	92.91	16.6943				
93.08	29.1426	93.08	23.5605	93.08	20.416	96.15	-14.0971	93.08	6.2998				
93.24	35.0215	93.24	23.5812	93.24	7.59424	96.32	-14.425	93.24	4.19141				
93.4	27.3965	93.41	23.6227	93.4	12.5552	96.48	-15.1289	93.4	6.229				
93.57	12.7544	93.57	23.4475	93.57	15.2285	96.65	-16.9948	93.57	12.2095				
93.73	25.3066	93.73	23.3456	93.73	17.709	96.81	-21.3919	93.73	10.2817				
93.89	19.8545	93.9	23.3051	93.89	17.7412	96.97	-29.5463	93.89	16.335				
94.06	29.1943	94.06	23.3964	94.06	20.2715	97.14	-51.7303	94.06	10.1338				
94.22	37.9277	94.22	23.4782	94.22	18.0771	97.3	-249.341	94.22	13.856				
94.39	25.2129	94.39	23.5812	94.39	18.1465	97.46	68.7982	94.39	15.8638				
94.55	30.7617	94.55	23.7795	94.55	23.085	97.63	32.6136	94.55	9.9292				
94.71	9.31494	94.71	23.8745	94.71	10.2471	97.79	19.6771	94.71	5.95288				
94.88	23.6221	94.88	24.1535	94.88	12.8096	97.95	14.4162	94.88	21.6563				
95.04	31.0244	95.04	24.3505	95.04	23.001	98.12	11.9217	95.04	23.79				
95.2	32.8594	95.2	24.562	95.2	25.1836	98.28	10.9724	95.2	16.2998				
95.37	27.46	95.37	24.9612	95.37	20.1406	98.45	10.5974	95.37	22.4971				
95.53	18.2559	95.53	25.1364	95.53	10.1626	98.61	10.1632	95.53	24.5195				
95.69	18.2881	95.7	25.1129	95.69	22.8838	98.77	9.53786	95.69	8.16113				
95.86	20.1494	95.86	24.8458	95.86	10.1074	98.94	9.53786	95.86	12.3452				
96.02	23.8281	96.02	24.7771	96.02	22.7578	99.1	9.05062	96.02	12.1748				
96.18	19.9805	96.19	24.6295	96.18	17.7656	99.26	8.98504	96.18	15.8618				
96.35	30.1914	96.35	24.3615	96.35	22.9102	99.43	8.61074	96.35	17.8672				
96.51	28.9463	96.51	24.0994	96.51	15.3237	99.59	8.55136	96.51	5.94946				
96.68	34.4277	96.68	23.917	96.68	22.9727	99.75	8.55136	96.68	5.93262				
96.84	12.6567	96.84	23.7374	96.84	12.8413	99.92	9.11715	96.84	11.8477				
97	12.6743	97	23.427	97	18.084	100.08	9.84059	97	17.8438				
97.17	25.4639	97.17	23.2145	97.17	28.3574	100.25	10.1632	97.17	15.9863				
97.33	18.457	97.33	22.996	97.33	7.62061	100.41	11.0704	97.33	13.71				
97.49	20.1836	97.5	22.8105	97.49	5.07178	100.57	11.8082	97.49	22.251				
97.66	25.5156	97.66	22.628	97.66	15.2734	100.74	12.3985	97.66	24.0195				
97.82	22.0693	97.82	22.3458	97.82	12.5679	100.9	12.9149	97.82	16.0615				
97.98	14.6831	97.99	22.0433	97.98	12.5693	101.06	14.2506	97.98	8.01563				
98.15	23.5137	98.15	21.5657	98.15	2.53455	101.23	14.9371	98.15	6.10205				
98.31	27.6299	98.31	21.0421	98.31	17.7373	101.39	17.7101	98.31	16.0215				
98.48	30.7227	98.48	20.4574	98.48	10.1426	101.55	22.5378	98.48	7.96313				
98.64	25.4863	98.64	19.7362	98.64	25.5146	101.72	22.955	98.64	11.8555				
98.8	26.7686	98.8	18.9833	98.8	15.522	101.88	30.2288	98.8	15.4858				
98.97	23.2998	98.97	18.1805	98.97	25.8262	102.05	37.5511	98.97	15.5576				
99.13	17.8877	99.13	17.2858	99.13	23.1465	102.21	42.7259	99.13	19.4463				
99.29	38.7227	99.3	16.4297	99.29	20.4561	102.37	51.6175	99.29	19.4277				
99.46	24.8467	99.46	15.6044	99.46	28.2979	102.54	61.9274	99.46	13.5239				
99.62	35.5195	99.62	14.891	99.62	15.2334	102.7	44.2504	99.62	11.647				
99.78	24.6475	99.79	14.2627	99.78	22.6035	102.86	37.5511	99.78	21.3125				
99.95	21.1992	99.95	13.6922	99.95	25.1123	103.03	31.7779	99.95	12.0132				
100.11	22.4375	100.11	13.2044	100.11	5.07544	103.19	24.3046	100.11	7.72876				
100.28	28.6064	100.28	12.7441	100.28	15.2563	103.35	16.5298	100.28	11.9546				
100.44	35.9805	100.44	12.3204	100.44	22.6738	103.52	12.5237	100.44	14.1553				
100.6	36.5527	100.6	11.9453	100.6	22.748	103.68	9.99927	100.6	11.4087				
100.77	28.957	100.77	11.6198	100.77	10.1802	103.85	7.79854	100.77	11.6719				
100.93	18.0576	100.93	11.3691	100.93	15.4023	104.01	6.77592	100.93	7.69141				
101.09	30.0723	101.1	11.1267	101.09	12.7451	104.17	5.99041	101.09	9.49072				
101.26	18.0537	101.26	10.8988	101.26	25.5605	104.34	5.61097	101.26	9.53906				
101.42	23.0117	101.42	10.6842	101.42	10.311	104.5	5.18843	101.42	9.52002				
101.58	29.5039	101.59	10.4617	101.58	20.6641	104.66	5.12412	101.58	7.61865				
101.75	21.0117	101.75	10.2151	101.75	30.6113	104.83	5.27674	101.75	9.60254				
101.91	28.0576	101.91	10.0059	101.91	25.2646	104.99	5.56065	101.91	13.3945				
102.08	31.3154	102.08	9.81227	102.08	17.8125	105.15	5.74084	102.08	9.73828				
102.24	22.4365	102.24	9.64497	102.24	20.3213	105.32	6.01948	102.24	13.8057				
102.4	26.0371	102.4	9.48663	102.4	17.627	105.48	6.66665	102.4	9.90088				
102.57	31.1689	102.57	9.34965	102.57	12.5776	105.65	7.25135	102.57	5.99561				
102.73	30.8252	102.73	9.20867	102.73	22.8252	105.81	7.515	102.73	7.90747				
102.89	30.9824	102.9	9.0949	102.89	12.7114	105.97	8.26637	102.89	17.4756				
103.06	27.4756	103.06	8.99143	103.06	10.1787	106.14	8.61074	103.06	13.5327				
103.22	41.2793	103.22	8.90502	103.22	10.2817	106.3	8.85671	103.22	7.70044				
103.38	36.9785	103.39	8.86243	103.38	12.9092	106.46	9.11715	103.38	1.93439				
103.55	31.5156	103.55	8.84347	103.55	20.6377	106.63	9.32276	103.55	5.80151				
103.71	38.4219	103.71	8.87414	103.71	10.2612	106.79	9.2532	103.71	11.5781				
103.88	27.6719	103.88	8.94653	103.88	23.0352	106.95	8.26637	103.88	9.5332				
104.04	27.4609	104.04	9.05964	104.04	15.3501	107.12	7.25135	104.04	11.3765				
104.2	30.9219	104.2	9.21182	104.2	10.1021	107.28	6.359	104.2	5.74194				
104.37	41.3418	104.37	9.38393	104.37	17.7236	107.44	5.84914	104.37	7.61523				
104.53	39.7793	104.53	9.57111	104.53	20.1865	107.61	5.43872	104.53	5.84888				
104.69	20.6641	104.7	9.78903	104.69	20.3604	107.77	5.12412	104.69	9.71045				
104.86	27.3467	104.86	10.0171	104.86	7.64502	107.94	4.84392	104.86	8.21826				
105.02	37.6074	105.02	10.2639	105.02	25.4014	108.1	4.76941	105.02	8.0083				
105.18	28.4678	105.19	10.5479	105.18	22.8086	108.26	4.73301	105.18	7.92578				
105.35	40.2715	105.35	10.8328	105.35	25.5967	108.43	4.57584	105.35	5.91504				
105.51	26.6748	105.51	11.0876	105.51	20.5811	108.59	4.44464	105.51	11.8018				
105.68	28.459	105.68	11.326	105.68	15.3223	108.75	4.27607	105.68	5.93115				
105.84	20.0215	105.84	11.5524	105.84	12.7402	108.92	4.14737	105.84	5.95337				
106	37.7656	106	11.7161	106	15.415	109.08	4.10617	106	7.91089				
106.17	36.377	106.17	11.8845	106.17	18.0469	109.24	3.93673	106.17	9.85986				
106.33	25.5645	106.33	12.012	106.33	33.0156	109.41	3.89959	106.33	7.9187				
106.49	27.1338	106.5	12.1533	106.49	30.4521	109.57	3.85115	106.49	3.71558				
106.66	30.2031	106.66	12.3007	106.66	15.2969	109.74	3.73516	106.66	10.1445				
106.82	28.707	106.82	12.3972	106.82	33.0215	109.9	3.72395	106.82	6.08228				
106.98	28.5879	106.99	12.4923	106.98	17.6973	110.06	3.70172	106.98	14.1484				
107.15	27.0527	107.15	12.5535	107.15	12.6377	110.23	3.60488	107.15	4.00439				
107.31	26.6875	107.31	12.5829	107.31	10.1709	110.39	3.48337	107.31	7.9563				
107.48	45.9277	107.48	12.6243	107.48	10.2285	110.55	3.32462	107.48	11.8867				
107.64	29.0039	107.64	12.6779	107.64	15.3906	110.72	3.25482	107.64	9.91943				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
107.8	25.1748	107.8	12.814	107.8	10.2695	110.88	3.20436	107.8	15.8394				
107.97	45.043	107.97	13.0378	107.97	18.1123	111.04	3.17971	107.97	9.84375				
108.13	32.1914	108.13	13.3024	108.13	20.6377	111.21	3.21266	108.13	11.7607				
108.29	32.7109	108.3	13.6193	108.29	12.7119	111.37	3.2981	108.29	13.8125				
108.46	30.2803	108.46	13.9336	108.46	25.3486	111.54	3.3882	108.46	13.6294				
108.62	36.7422	108.62	14.2513	108.62	10.1333	111.7	3.60488	108.62	14.0596				
108.78	16.207	108.79	14.5326	108.78	22.8584	111.86	3.76922	108.78	22.3291				
108.95	21.416	108.95	14.8417	108.95	10.1436	112.03	3.8039	108.95	24.6094				
109.11	23.8076	109.11	15.1641	109.11	15.2036	112.19	3.98735	109.11	14.248				
109.27	21.9922	109.28	15.5323	109.27	20.3701	112.35	4.10617	109.27	24.2939				
109.44	19.2676	109.44	15.9755	109.44	40.7363	112.52	4.29086	109.44	22.3936				
109.6	17.0439	109.6	16.4197	109.6	20.334	112.68	4.47673	109.6	14.2275				
109.77	14.0815	109.77	16.8999	109.77	10.1172	112.84	4.62705	109.77	20.1777				
109.93	26.5703	109.93	17.3137	109.93	23.1328	113.01	4.80638	109.93	10.0474				
110.09	10.7197	110.09	17.7365	110.09	17.9805	113.17	5.04081	110.09	17.9541				
110.26	9.24707	110.26	18.0584	110.26	20.3301	113.34	5.32203	110.26	12.1094				
110.42	21.7461	110.42	18.3481	110.42	10.2036	113.5	5.56065	110.42	18.1006				
110.58	14.6973	110.59	18.6603	110.58	20.5684	113.66	6.10843	110.58	26.0605				
110.75	21.1973	110.75	18.8766	110.75	17.9043	113.83	6.66665	110.75	16.0732				
110.91	10.9585	110.91	19.0844	110.91	37.8398	113.99	7.33716	110.91	14.1548				
111.07	10.9722	111.08	19.2622	111.07	25.3135	114.15	8.21163	111.07	16.1885				
111.24	29.2041	111.24	19.4575	111.24	32.9648	114.32	8.61074	111.24	24.3018				
111.4	9.04883	111.4	19.5851	111.4	25.5186	114.48	9.68686	111.4	14.103				
111.57	23.4121	111.57	19.6712	111.57	27.71	114.64	10.7816	111.57	28.3633				
111.73	10.6304	111.73	19.7289	111.73	20.2344	114.81	11.9217	111.73	14.2339				
111.89	11.8296	111.89	19.7652	111.89	12.7388	114.97	13.0508	111.89	20.2246				
112.06	17.9678	112.06	19.7871	112.06	28.1006	115.14	13.7757	112.06	12.0938				
112.22	10.8193	112.22	19.8528	112.22	10.2529	115.3	14.2506	112.22	16.1865				
112.38	12.6724	112.39	19.8528	112.38	12.6074	115.46	14.2506	112.38	8.02881				
112.55	17.9541	112.55	19.9117	112.55	25.5088	115.63	14.9371	112.55	16.0342				
112.71	21.585	112.71	20.0006	112.71	10.2534	115.79	13.6243	112.71	19.9453				
112.87	7.20825	112.88	20.0678	112.87	25.5488	115.95	12.3985	112.87	12.0132				
113.04	14.6484	113.04	20.1506	113.04	15.145	116.12	11.9217	113.04	30.0352				
113.2	19.9619	113.2	20.2799	113.2	17.7051	116.28	10.4193	113.2	17.9033				
113.37	14.4707	113.37	20.4186	113.37	20.3662	116.44	9.39338	113.37	18.1191				
113.53	23.834	113.53	20.5042	113.53	12.6392	116.61	8.55136	113.53	20.3564				
113.69	14.5811	113.69	20.5986	113.69	22.7705	116.77	7.60719	113.69	20.3379				
113.86	14.5654	113.86	20.7497	113.86	10.1924	116.94	6.52632	113.86	12.1226				
114.02	10.7803	114.02	20.903	114.02	7.65454	117.1	5.87686	114.02	28.4023				
114.18	25.3242	114.19	21.0751	114.18	12.6504	117.26	5.27674	114.18	18.3643				
114.35	12.7173	114.35	21.2166	114.35	27.7109	117.43	4.84392	114.35	16.1357				
114.51	16.1113	114.51	21.3684	114.51	22.5459	117.59	4.67943	114.51	23.9941				
114.67	17.875	114.68	21.583	114.67	5.0271	117.75	4.69715	114.67	8.01025				
114.84	16.1563	114.84	21.7489	114.84	22.8213	117.92	4.67943	114.84	14.0571				
115	18.082	115	21.9443	115	14.9458	118.08	4.75114	115	12.022				
115.17	21.6289	115.17	22.1889	115.17	15.0508	118.24	4.98008	115.17	33.998				
115.33	17.9785	115.33	22.3458	115.33	14.9595	118.41	5.34496	115.33	22.0332				
115.49	16.1494	115.49	22.6185	115.49	7.43774	118.57	5.74084	115.49	28.1318				
115.66	17.9619	115.66	22.8882	115.66	22.3564	118.74	6.26266	115.66	10.0449				
115.82	10.7627	115.82	23.0552	115.82	22.3896	118.9	6.52632	115.82	22.1436				
115.98	16.0732	115.99	23.2245	115.98	19.8916	119.06	6.66665	115.98	13.9077				
116.15	10.3916	116.15	23.3558	116.15	4.94824	119.23	7.08563	116.15	17.958				
116.31	16.292	116.31	23.6019	116.31	19.832	119.39	7.25135	116.31	25.7695				
116.47	19.7646	116.48	23.7689	116.47	7.50024	119.55	7.46973	116.47	15.9097				
116.64	12.5508	116.64	23.8428	116.64	14.9663	119.72	7.99975	116.64	29.8066				
116.8	18.001	116.8	23.949	116.8	7.48071	119.88	8.26637	116.8	11.833				
116.97	10.8594	116.97	24.0778	116.97	22.7891	120.04	8.79391	116.97	27.7666				
117.13	19.7246	117.13	24.2407	117.13	27.7559	120.21	9.91929	117.13	21.6465				
117.29	15.9585	117.29	24.197	117.29	17.3232	120.37	10.4193	117.29	25.5342				
117.46	8.86133	117.46	24.1861	117.46	14.5815	120.53	11.4803	117.46	21.6709				
117.62	17.9141	117.62	24.2407	117.62	14.5049	120.7	11.0704	117.62	17.6514				
117.78	16.0459	117.79	24.2735	117.78	19.4707	120.86	11.375	117.78	23.4277				
117.95	12.4185	117.95	24.3285	117.95	17.0547	121.03	12.9149	117.95	19.8301				
118.11	8.95117	118.11	24.3505	118.11	7.30396	121.19	12.5237	118.11	32.5742				
118.27	10.7783	118.28	24.4058	118.27	19.417	121.35	13.7757	118.27	14.1108				
118.44	10.7007	118.44	24.5171	118.44	32.0176	121.52	15.8943	118.44	29.7451				
118.6	14.1987	118.6	24.7657	118.6	29.3447	121.68	16.5298	118.6	15.6577				
118.77	14.3306	118.77	24.7657	118.77	26.8535	121.84	17.2183	118.77	15.6006				
118.93	8.9375	118.93	24.7315	118.93	24.3467	122.01	19.3698	118.93	21.0049				
119.09	19.3467	119.09	24.7315	119.09	37.4844	122.17	19.3698	119.09	23.1855				
119.26	5.26758	119.26	24.9265	119.26	35.248	122.33	17.7101	119.26	26.9355				
119.42	24.6572	119.42	25.1599	119.42	24.5449	122.5	17.7101	119.42	25.1934				
119.58	17.7334	119.59	25.2308	119.58	31.6953	122.66	17.4608	119.58	25.1191				
119.75	8.81641	119.75	25.3498	119.75	24.5625	122.83	18.2308	119.75	26.9795				
119.91	10.5059	119.91	25.5062	119.91	24.4844	122.99	20.322	119.91	17.3418				
120.07	10.5664	120.08	25.7014	120.07	12.1084	123.15	21.7474	120.07	21.5449				
120.24	21.1641	120.24	25.8622	120.24	34.0684	123.32	26.9449	120.24	17.6025				
120.4	10.5171	120.4	26.0376	120.4	27	123.48	29.5095	120.4	19.7314				
120.57	10.4883	120.57	26.2282	120.57	24.6143	123.64	27.5433	120.57	21.3916				
120.73	15.6606	120.73	26.539	120.73	24.2363	123.81	24.7904	120.73	13.7178				
120.89	21.3457	120.89	27.0194	120.89	26.6592	123.97	24.3046	120.89	11.5957				
121.06	17.7188	121.06	27.5174	121.06	10.0752	124.13	21.0105	121.06	20.5967				
121.22	17.4854	121.22	27.6733	121.22	17.6973	124.3	18.2308	121.22	15.2676				
121.38	10.3892	121.39	27.8021	121.38	12.4824	124.46	14.9371	121.38	23.0566				
121.55	7.06323	121.55	27.9177	121.55	27.4053	124.63	12.3985	121.55	11.3726				
121.71	14.1025	121.71	28.005	121.71	22.4453	124.79	10.1632	121.71	11.3569				
121.87	12.189	121.88	27.8309	121.87	12.3916	124.95	8.26637	121.87	20.7764				
122.04	14.3452	122.04	27.7304	122.04	9.88965	125.12	6.88884	122.04	26.5146				
122.2	1.8028	122.2	27.4752	122.2	22.3252	125.28	6.07849	122.2	27.0186				
122.36	12.5308	122.37	27.1696	122.36	22.5107	125.44	5.27674	122.36	17.2021				
122.53	10.7578	122.53	27.0738	122.53	12.5366	125.61	4.9208	122.53	19.6133				
122.69	12.647	122.69	26.9246	122.69	12.4214	125.77	4.50929	122.69	26.1621				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
122.86	12.625	122.86	26.6575	122.86	12.4951	125.93	4.26137	122.86	25.8799				
123.02	10.8374	123.02	26.3439	123.02	20.1318	126.1	4.17529	123.02	13.6416				
123.18	21.3027	123.18	25.8622	123.18	22.7686	126.26	4.17529	123.18	15.5376				
123.35	12.5049	123.35	25.2545	123.35	20.1484	126.43	4.33587	123.35	21.1973				
123.51	12.2988	123.51	24.562	123.51	17.4248	126.59	4.54232	123.51	17.2686				
123.67	9.01367	123.68	23.5296	123.67	20.1484	126.75	4.82508	123.67	27.1182				
123.84	14.1948	123.84	22.5521	123.84	15.1108	126.92	5.27674	123.84	17.3467				
124	19.5635	124	21.5397	124	24.8672	127.08	5.82169	124	27.1143				
124.16	14.3774	124.17	20.5434	124.16	9.91309	127.24	6.49215	124.16	30.9502				
124.33	9.03125	124.33	19.5566	124.33	4.99829	127.41	7.25135	124.33	13.4941				
124.49	14.4575	124.49	18.6603	124.49	9.92627	127.57	8.26637	124.49	17.3799				
124.66	12.6465	124.66	17.7541	124.66	9.89795	127.73	9.39338	124.66	21.9893				
124.82	10.9312	124.82	17.0176	124.82	17.2881	127.9	11.5876	124.82	13.9058				
124.98	7.25098	124.98	16.3797	124.98	12.4419	128.06	12.7818	124.98	17.8184				
125.15	8.99658	125.15	15.867	125.15	15.0815	128.23	14.7593	125.15	17.6533				
125.31	25.1523	125.31	15.207	125.31	10.0537	128.39	16.7531	125.31	11.9609				
125.47	7.17065	125.48	14.5602	125.47	10.0859	128.55	19.3698	125.47	22.0225				
125.64	14.2588	125.64	14.0833	125.64	7.6167	128.72	19.9943	125.64	17.9287				
125.8	17.8154	125.8	13.6504	125.8	32.6855	128.88	19.6771	125.8	25.6455				
125.96	23.25	125.97	13.2369	125.96	4.99561	129.04	20.322	125.96	23.8242				
126.13	9.00537	126.13	13.0094	126.13	19.8496	129.21	21.3726	126.13	29.0781				
126.29	16.0557	126.29	12.9717	126.29	14.8765	129.37	21.3726	126.29	7.69922				
126.46	21.5107	126.46	12.9561	126.46	14.9712	129.53	21.3726	126.46	17.2314				
126.62	28.8896	126.62	13.0062	126.62	34.752	129.7	21.0105	126.62	21.2285				
126.78	5.44287	126.78	13.1979	126.78	24.8594	129.86	22.5378	126.78	13.4131				
126.95	14.3696	126.95	13.422	126.95	9.99316	130.03	22.5378	126.95	23.585				
127.11	18.0088	127.11	13.6643	127.11	22.5566	130.19	22.5378	127.11	21.7666				
127.27	14.5269	127.28	13.9952	127.27	12.459	130.35	22.5378	127.27	19.7031				
127.44	23.6582	127.44	14.4041	127.44	37.4121	130.52	26.3719	127.44	15.7085				
127.6	7.18262	127.6	14.854	127.6	20.1211	130.68	29.5095	127.6	13.6235				
127.76	14.2861	127.77	15.3944	127.76	10.0776	130.84	32.6136	127.76	23.4775				
127.93	19.7109	127.93	16.0088	127.93	10.0259	131.01	31.7779	127.93	29.2314				
128.09	17.9082	128.09	16.7107	128.09	14.9805	131.17	31.7779	128.09	9.59912				
128.26	5.33838	128.26	17.5226	128.26	15.1396	131.33	36.4475	128.26	13.5044				
128.42	10.625	128.42	18.3984	128.42	22.4121	131.5	35.407	128.42	15.3901				
128.58	19.6309	128.58	19.3176	128.58	14.9053	131.66	33.4944	128.58	13.5381				
128.75	10.8325	128.75	20.2799	128.75	4.95972	131.83	29.5095	128.75	23.2305				
128.91	10.8242	128.91	21.1083	128.91	12.4082	131.99	26.3719	128.91	13.4897				
129.07	10.8511	129.08	21.9085	129.07	22.3721	132.15	20.322	129.07	20.9883				
129.24	9.02588	129.24	22.6758	129.24	19.752	132.32	15.4971	129.24	13.9199				
129.4	9.09863	129.4	23.4475	129.4	9.92139	132.48	13.4763	129.4	11.894				
129.56	5.42554	129.57	24.1535	129.56	12.5029	132.64	11.0704	129.56	13.8008				
129.73	12.5723	129.73	24.6521	129.73	15.1626	132.81	9.84059	129.73	19.7412				
129.89	10.7476	129.89	25.1835	129.89	17.6445	132.97	9.05062	129.89	17.8945				
130.06	10.7837	130.06	25.5062	130.06	17.5801	133.13	8.79391	130.06	13.9248				
130.22	7.11792	130.22	25.6523	130.22	17.7021	133.3	8.79391	130.22	17.7402				
130.38	8.88184	130.38	25.7014	130.38	15.0815	133.46	9.2532	130.38	19.709				
130.55	8.96338	130.55	25.3498	130.55	9.94775	133.62	9.32276	130.55	17.7598				
130.71	5.38232	130.71	24.915	130.71	12.292	133.79	9.53786	130.71	9.81396				
130.87	8.90283	130.88	24.4725	130.87	14.9136	133.95	9.11715	130.87	13.6802				
131.04	7.19189	131.04	23.8111	131.04	9.95361	134.12	9.11715	131.04	9.76904				
131.2	14.4292	131.2	23.1745	131.2	9.91602	134.28	8.85671	131.2	21.6084				
131.36	12.6772	131.37	22.4297	131.36	22.2148	134.44	8.37805	131.36	17.5557				
131.53	10.7759	131.53	21.7842	131.53	22.4512	134.61	7.99975	131.53	13.7886				
131.69	7.17969	131.69	21.1581	131.69	7.49683	134.77	7.79854	131.69	19.7998				
131.86	7.25708	131.86	20.5042	131.86	24.8896	134.93	7.60719	131.86	15.9927				
132.02	10.8086	132.02	19.7652	132.02	5.00244	135.1	7.12635	132.02	19.8564				
132.18	12.3813	132.18	18.9833	132.18	12.5488	135.26	6.77592	132.18	11.918				
132.35	10.5117	132.35	18.2052	132.35	10.0527	135.42	6.39177	132.35	17.8809				
132.51	8.77441	132.51	17.336	132.51	15.0298	135.59	5.87686	132.51	13.8457				
132.67	14.0332	132.68	16.4398	132.67	7.46802	135.75	5.41498	132.67	9.8374				
132.84	15.6821	132.84	15.4965	132.84	24.9531	135.92	4.82508	132.84	19.5049				
133	13.9224	133	14.5052	133	0	136.08	4.27607	133	13.6704				
133.16	19.2168	133.17	13.4489	133.16	12.3613	136.24	3.74645	133.16	13.7993				
133.33	7.14526	133.33	12.3772	133.33	22.0654	136.41	3.2463	133.33	15.6992				
133.49	7.23608	133.49	11.3069	133.49	27.249	136.57	2.87725	133.49	7.83911				
133.66	7.21973	133.66	10.335	133.66	14.832	136.73	2.536	133.66	7.84058				
133.82	19.8887	133.82	9.43335	133.82	24.7783	136.9	2.30504	133.82	7.91943				
133.98	12.7705	133.98	8.64155	133.98	29.6318	137.06	2.12349	133.98	15.8325				
134.15	5.41943	134.15	7.9535	134.15	20.2656	137.22	1.99376	134.15	19.8408				
134.31	7.15625	134.31	7.37503	134.31	22.7686	137.39	1.89332	134.31	21.6406				
134.47	16.1338	134.48	6.88645	134.47	12.5698	137.55	1.8264	134.47	19.9219				
134.64	21.3945	134.64	6.46402	134.64	7.51587	137.72	1.74666	134.64	13.9565				
134.8	23.1387	134.8	6.11397	134.8	7.52197	137.88	1.68039	134.8	27.5986				
134.96	16.0098	134.97	5.81622	134.96	14.9697	138.04	1.6296	134.96	11.8506				
135.13	28.5781	135.13	5.56795	135.13	9.86279	138.21	1.59195	135.13	23.6875				
135.29	21.5244	135.29	5.36774	135.29	7.38916	138.37	1.5521	135.29	15.7227				
135.46	16.0684	135.46	5.20049	135.46	14.9058	138.53	1.52163	135.46	27.4199				
135.62	19.6992	135.62	5.07477	135.62	19.9551	138.7	1.49774	135.62	27.2471				
135.78	14.2422	135.78	4.97425	135.78	24.6836	138.86	1.49054	135.78	25.6006				
135.95	12.4531	135.95	4.89452	135.95	17.3477	139.02	1.47459	135.95	7.86914				
136.11	15.8979	136.11	4.83203	136.11	17.3965	139.19	1.45898	136.11	25.6279				
136.27	7.07422	136.27	4.78045	136.27	17.5742	139.35	1.44538	136.27	27.8154				
136.44	10.623	136.44	4.74249	136.44	20.084	139.52	1.43867	136.44	8.01953				
136.6	19.3701	136.6	4.71172	136.6	12.4683	139.68	1.43368	136.6	15.9404				
136.76	15.6426	136.77	4.69525	136.76	15.1221	139.84	1.4173	136.76	21.624				
136.93	19.167	136.93	4.69115	136.93	10.0903	140.01	1.4173	136.93	9.75732				
137.09	26.2725	137.09	4.69936	137.09	14.9355	140.17	1.41085	137.09	25.3066				
137.25	15.7642	137.26	4.71007	137.25	4.94482	140.33	1.40446	137.25	15.4956				
137.42	18.8945	137.42	4.71834	137.42	19.9004	140.5	1.40128	137.42	23.085				
137.58	13.6621	137.58	4.71668	137.58	19.8252	140.66	1.40128	137.58	15.3384				
137.75	22.4531	137.75	4.70677	137.75	29.5381	140.82	1.3997	137.75	13.5449				

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
137.91	13.9219	137.91	4.68053	137.91	22.1592	140.99	1.39812	137.91	15.4692				
138.07	23.1895	138.07	4.63772	138.07	29.6934	141.15	1.39655	138.07	7.68115				
138.24	13.9189	138.24	4.5894	138.24	44.918	141.32	1.39341	138.24	27.0049				
138.4	15.7192	138.4	4.53977	138.4	34.7344	141.48	1.39341	138.4	21.4424				
138.56	15.75	138.57	4.51006	138.56	25.0771	141.64	1.37946	138.56	15.563				
138.73	20.4873	138.73	4.48746	138.73	22.7734	141.81	1.37793	138.73	17.4287				
138.89	16.958	138.89	4.4755	138.89	30.2783	141.97	1.37487	138.89	19.3857				
139.05	30.6475	139.06	4.47774	139.05	22.4756	142.13	1.37335	139.05	9.76123				
139.22	22.3584	139.22	4.48222	139.22	29.8516	142.3	1.3688	139.22	25.3857				
139.38	25.7129	139.38	4.48372	139.38	24.8574	142.46	1.36279	139.38	13.5479				
139.55	39.5664	139.55	4.48222	139.55	24.6836	142.62	1.36579	139.55	19.3555				
139.71	48.1621	139.71	4.46955	139.71	27.1563	142.79	1.35682	139.71	23.167				
139.87	44.9805	139.87	4.45695	139.87	24.627	142.95	1.34797	139.87	19.3105				
140.04	29.4678	140.04	4.43927	140.04	22.4258	143.12	1.34797	140.04	15.3477				
140.2	52.6875	140.2	4.42101	140.2	19.8564	143.28	1.3378	140.2	9.57764				
140.36	41.7813	140.37	4.40363	140.36	29.7373	143.44	1.33205	140.36	17.3213				
140.53	43.6289	140.53	4.39283	140.53	34.5488	143.61	1.33492	140.53	28.958				
140.69	39.9102	140.69	4.38494	140.69	25.0508	143.77	1.32919	140.69	11.6069				
140.85	24.1572	140.86	4.38494	140.85	45.3379	143.93	1.32919	140.85	19.4072				
141.02	44.8848	141.02	4.38208	141.02	35.0332	144.1	1.33492	141.02	13.4878				
141.18	36.4316	141.18	4.37923	141.18	34.9824	144.26	1.32919	141.18	17.2637				
141.35	29.1758	141.35	4.37281	141.35	32.6563	144.42	1.33062	141.35	15.3042				
141.51	27.376	141.51	4.36004	141.51	35.1152	144.59	1.32635	141.51	13.2842				
141.67	15.397	141.67	4.33822	141.67	19.7852	144.75	1.32493	141.67	13.3276				
141.84	37.9629	141.84	4.31246	141.84	14.8633	144.92	1.32493	141.84	11.3462				
142	35.8145	142	4.28222	142	47.082	145.08	1.3151	142	18.8447				
142.16	38.0938	142.17	4.24904	142.16	34.6289	145.24	1.32635	142.16	13.2534				
142.33	47.625	142.33	4.21174	142.33	14.769	145.41	1.32919	142.33	17.1582				
142.49	24.4844	142.49	4.17315	142.49	39.293	145.57	1.33205	142.49	24.7197				
142.65	34.7695	142.66	4.13908	142.65	29.8721	145.73	1.3378	142.65	13.188				
142.82	38.084	142.82	4.10745	142.82	27.4209	145.9	1.33635	142.82	15.5454				
142.98	48.7559	142.98	4.09306	142.98	35.1738	146.06	1.34069	142.98	19.5332				
143.15	29.7178	143.15	4.06396	143.15	22.5723	146.22	1.34359	143.15	19.4893				
143.31	33.2676	143.31	4.05354	143.31	27.6875	146.39	1.34214	143.31	15.5708				
143.47	43.418	143.47	4.04866	143.47	42.7188	146.55	1.34069	143.47	15.562				
143.64	31.4893	143.64	4.05049	143.64	24.9365	146.71	1.34651	143.64	9.81299				
143.8	35.1348	143.8	4.06089	143.8	29.5439	146.88	1.34214	143.8	17.5068				
143.96	29.7578	143.97	4.0887	143.96	32.2559	147.04	1.34214	143.96	17.4531				
144.13	27.9434	144.13	4.10808	144.13	17.3896	147.21	1.3378	144.13	17.3037				
144.29	38.5566	144.29	4.15123	144.29	32.0293	147.37	1.34651	144.29	5.80322				
144.45	28.3457	144.46	4.20318	144.45	12.3511	147.53	1.34944	144.45	13.5122				
144.62	21.1855	144.62	4.26523	144.62	64.625	147.7	1.34944	144.62	22.9961				
144.78	33.418	144.78	4.32983	144.78	37.3027	147.86	1.35386	144.78	26.7441				
144.95	28.2344	144.95	4.39714	144.95	29.7119	148.02	1.36279	144.95	13.5581				
145.11	40.8652	145.11	4.46658	145.11	27.3955	148.19	1.36729	145.11	9.72119				
145.27	21.1953	145.27	4.53977	145.27	25.209	148.35	1.3688	145.27	13.6494				
145.44	26.4258	145.44	4.61383	145.44	27.6943	148.51	1.37335	145.44	15.5879				
145.6	22.8154	145.6	4.69115	145.6	25.0908	148.68	1.37793	145.6	9.76904				
145.76	21.0859	145.77	4.77196	145.76	32.4375	148.84	1.38718	145.76	11.7764				
145.93	38.3867	145.93	4.85035	145.93	45.0918	149.01	1.39029	145.93	19.415				
146.09	31.2568	146.09	4.91871	146.09	24.877	149.17	1.39341	146.09	19.2627				
146.25	27.918	146.26	4.98996	146.25	29.6758	149.33	1.39812	146.25	17.4648				
146.42	29.7344	146.42	5.04713	146.42	44.3926	149.5	1.40446	146.42	7.68701				
146.58	40.043	146.58	5.10466	146.58	27.1465	149.66	1.41245	146.58	17.2393				
146.75	22.8379	146.75	5.17944	146.75	32.2285	149.82	1.41892	146.75	13.4756				
146.91	24.8613	146.91	5.27294	146.91	17.21	149.99	1.42544	146.91	11.6069				
147.07	24.9248	147.07	5.40119	147.07	27.2051	150.15	1.43037	147.07	7.73438				
147.24	28.2461	147.24	5.55988	147.24	25.083	150.31	1.44034	147.24	13.5547				
147.4	17.7139	147.4	5.74779	147.4	17.6953	150.48	1.45215	147.4	15.5381				
147.56	29.8701	147.57	5.95675	147.56	42.7324	150.64	1.45556	147.56	9.77832				
147.73	27.7588	147.73	6.17438	147.73	30.1992	150.81	1.46761	147.73	16.7646				
147.89	23.3438	147.89	6.40699	147.89	40.0723	150.97	1.48164	147.89	12.7114				
148.05	36.543	148.06	6.64464	148.05	25.1055	151.13	1.47987	148.05	21.9512				
148.22	22.7139	148.22	6.87411	148.22	32.0918	151.3	1.47459	148.22	9.1665				
148.38	33.377	148.38	7.07315	148.38	19.6738	151.46	1.47987	148.38	16.2617				
148.55	19.2305	148.55	7.20014	148.55	34.7129	151.62	1.48875	148.55	10.5557				
148.71	20.8477	148.71	7.25261	148.71	29.8418	151.79	1.49414	148.71	20.9424				
148.87	28.1523	148.87	7.20689	148.87	22.2441	151.95	1.48341	148.87	17.5684				
149.04	30.1006	149.04	7.08061	149.04	51.8184	152.11	1.49774	149.04	20.9678				
149.2	21.0947	149.2	6.92014	149.2	14.9287	152.28	1.49054	149.2	22.5605				
149.36	24.5801	149.36	6.73288	149.36	32.332	152.44	1.50137	149.36	27.8291				
149.53	22.9912	149.53	6.53317	149.53	12.4761	152.61	1.50137	149.53	17.3838				
149.69	10.6582	149.69	6.33897	149.69	27.542	152.77	1.50684	149.69	32.8184				
149.85	26.3457	149.86	6.14614	149.85	32.707	152.93	1.50684	149.85	6.95142				
150.02	29.7793	150.02	5.96204	150.02	42.7188	153.1	1.51051	150.02	15.6211				
150.18	28.0557	150.18	5.78491	150.18	25.0049	153.26	1.50501	150.18	13.7808				
150.34	26.3457	150.35	5.63096	150.34	39.7422	153.42	1.51236	150.34	16.6006				
150.51	6.95679	150.51	5.50183	150.51	29.8096	153.59	1.51977	150.51	12.9614				
150.67	34.7012	150.67	5.3936	150.67	29.9395	153.75	1.5142	150.67	9.27588				
150.84	22.6348	150.84	5.30941	150.84	24.5723	153.91	1.52726	150.84	11.8252				
151	24.4961	151	5.24925	151	31.9648	154.08	1.52914	151	8.7002				
151.16	22.7891	151.16	5.2025	151.16	27.1416	154.24	1.52914	151.16	9.25391				
151.33	28.2012	151.33	5.16748	151.33	37.2656	154.41	1.52914	151.33	21.6377				
151.49	26.543	151.49	5.15262	151.49	24.6709	154.57	1.52914						
151.65	33.7578	151.66	5.1546	151.65	32.5195	154.73	1.53292						
151.82	26.5332	151.82	5.17644	151.82	38.082	154.9	1.54437						
151.98	22.8555	151.98	5.21259	151.98	32.7305	155.06	1.53482						
152.14	21.0195	152.15	5.25747	152.14	32.6934	155.22	1.55016						
152.31	19.293	152.31	5.31151	152.31	37.25	155.39	1.55016						
152.47	20.9434	152.47	5.3656	152.47	17.499	155.55	1.55795						
152.64	20.8525	152.64	5.42628	152.64	44.5449	155.71	1.556						
152.8	10.4634	152.8	5.49171	152.8	22.1211	155.88	1.56582						

MWQ-2					MWQ-20					MWQ-20			M117MW001			M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)
152.96	12.2944	152.96	5.55873		152.96	19.7061	156.04	1.56979									
153.13	22.5957	153.13	5.61918		153.13	19.8945	156.21	1.55991									
153.29	22.665	153.29	5.68336		153.29	39.7422	156.37	1.556									
153.45	19.335	153.46	5.74656		153.45	44.4219	156.53	1.55991									
153.62	26.5908	153.62	5.80867		153.62	19.8213	156.7	1.55991									
153.78	17.5703	153.78	5.86573		153.78	32.4004	156.86	1.5678									
153.94	15.8022	153.95	5.92131		153.94	35.3398	157.02	1.5521									
154.11	23.0039	154.11	5.96734		154.11	22.5967	157.19	1.54437									
154.27	24.7871	154.27	6.0087		154.27	42.5547	157.35	1.54823									
154.44	22.8057	154.44	6.04928		154.44	30.3955	157.51	1.54437									
154.6	22.6631	154.6	6.0918		154.6	25.0752	157.68	1.54054									
154.76	28.084	154.76	6.13211		154.76	9.94482	157.84	1.53292									
154.93	26.3086	154.93	6.16305		154.93	34.6543	158.01	1.53292									
155.09	22.5742	155.09	6.17296		155.09	37.3555	158.17	1.53292									
155.25	34.7266	155.26	6.1673		155.25	34.8203	158.33	1.52726									
155.42	13.8887	155.42	6.1574		155.42	14.8281	158.5	1.53292									
155.58	29.9102	155.58	6.13491		155.58	27.0234	158.66	1.52163									
155.74	29.8682	155.75	6.11954		155.74	14.9331	158.82	1.52726									
155.91	28.2334	155.91	6.10009		155.91	25.0225	158.99	1.52163									
156.07	23.001	156.07	6.07664		156.07	42.8594	159.15	1.52163									
156.24	14.2559	156.24	6.05201		156.24	37.8945	159.31	1.52163									
156.4	21.2031	156.4	6.02352		156.4	30.2832	159.48	1.5142									
156.56	24.4189	156.56	6.00199		156.56	30.4463	159.64	1.51977									
156.73	28.0498	156.73	5.97663		156.73	29.8877	159.8	1.5142									
156.89	20.9609	156.89	5.95675		156.89	19.7998	159.97	1.50501									
157.05	24.418	157.06	5.93832		157.05	34.6387	160.13	1.49594									
157.22	26.0156	157.22	5.93177		157.22	19.8613	160.3	1.50137									
157.38	17.834	157.38	5.92915		157.38	29.5742	160.46	1.49774									
157.54	31.5684	157.55	5.93177		157.54	42.1113	160.62	1.48164									
157.71	20.6172	157.71	5.9357		157.71	29.9111	160.79	1.46935									
157.87	15.3931	157.87	5.94489		157.87	14.9941	160.95	1.46761									
158.04	25.8643	158.04	5.96072		158.04	22.3984	161.11	1.46242									
158.2	19.1455	158.2	5.97796		158.2	29.7744	161.28	1.45898									
158.36	12.0654	158.36	5.99931		158.36	22.7139	161.44	1.44538									
158.53	36.2363	158.53	6.02352		158.53	20.125	161.6	1.44369									
158.69	26.0078	158.69	6.04928		158.69	27.5742	161.77	1.437									
158.85	8.67236	158.86	6.07115		158.85	32.5156	161.93	1.43037									
159.02	25.7773	159.02	6.10148		159.02	17.5723	162.1	1.42708									
159.18	13.6572	159.18	6.12512		159.18	22.4541	162.26	1.42054									
159.34	29.2549	159.35	6.14473		159.34	32.2754	162.42	1.42381									
159.51	28.1709	159.51	6.16305		159.51	34.5645	162.59	1.41406									
159.67	27.6299	159.67	6.18148		159.67	17.4014	162.75	1.41245									
159.84	10.1455	159.84	6.19431		159.84	32.3086	162.91	1.41406									
160	15.4346	160	6.20575		160	39.541	163.08	1.41245									
160.16	22.1318	160.16	6.22012		160.16	14.8203	163.24	1.41245									
160.33	17.0117	160.33	6.22588		160.33	20.0771	163.4	1.41245									
160.49	20.3096	160.49	6.23021		160.49	42.8926	163.57	1.4173									
160.65	18.7109	160.66	6.236		160.65	25.2617	163.73	1.42054									
160.82	32.2871	160.82	6.24469		160.82	22.4531	163.9	1.42054									
160.98	18.4648	160.98	6.26654		160.98	27.6992	164.06	1.41892									
161.14	23.4004	161.15	6.28706		161.14	27.5508	164.22	1.42054									
161.31	15.0811	161.31	6.32257		161.31	29.5713	164.39	1.42708									
161.47	16.8711	161.47	6.36601		161.47	24.46	164.55	1.43203									
161.64	21.0596	161.64	6.41923		161.64	12.4224	164.71	1.43368									
161.8	22.6162	161.8	6.49369		161.8	22.417	164.88	1.43867									
161.96	19.0303	161.96	6.57312		161.96	22.4121	165.04	1.44369									
162.13	11.9263	162.13	6.66276		162.13	29.7695	165.2	1.44369									
162.29	20.2383	162.29	6.74301		162.29	47.3398	165.37	1.45215									
162.45	16.8809	162.45	6.8183		162.45	32.5664	165.53	1.45385									
162.62	11.8887	162.62	6.88292		162.62	29.9873	165.7	1.45385									
162.78	22.0752	162.78	6.94159		162.78	32.6211	165.86	1.45556									
162.94	16.9639	162.95	6.99945		162.94	55.4883	166.02	1.45898									
163.11	21.8164	163.11	7.05829		163.11	22.6611	166.19	1.46242									
163.27	11.8154	163.27	7.10871		163.27	42.3926	166.35	1.46588									
163.43	20.2188	163.44	7.16653		163.43	27.3037	166.51	1.4607									
163.6	21.8066	163.6	7.21173		163.6	29.6357	166.68	1.46588									
163.76	31.2373	163.76	7.24869		163.76	29.8711	166.84	1.46588									
163.93	10.4014	163.93	7.2989		163.93	42.0488	167	1.46588									
164.09	25.5449	164.09	7.35685		164.09	41.8418	167.17	1.4607									
164.25	16.7529	164.25	7.40143		164.25	29.9209	167.33	1.45556									
164.42	18.4404	164.42	7.46		164.42	22.3281	167.5	1.45215									
164.58	11.897	164.58	7.53003		164.58	24.8086	167.66	1.45045									
164.74	17.1387	164.75	7.58208		164.74	29.8711	167.82	1.437									
164.91	15.2178	164.91	7.63703		164.91	22.7529	167.99	1.42381									
165.07	20.3555	165.07	7.68838		165.07	25.3857	168.15	1.42054									
165.23	16.8682	165.24	7.73597		165.23	32.6035	168.31	1.40764									
165.4	16.8584	165.4	7.76279		165.4	29.8877	168.48	1.40446									
165.56	20.0049	165.56	7.77852		165.56	29.8818	168.64	1.39029									
165.73	18.375	165.73	7.79206		165.73	32.2539	168.8	1.37335									
165.89	10.0815	165.89	7.79093		165.89	14.6699	168.97	1.36279									
166.05	12.1626	166.05	7.77627		166.05	42.043	169.13	1.3598									
166.22	20.1563	166.22	7.76728		166.22	34.8496	169.3	1.34797									
166.38	15.0259	166.38	7.76391		166.38	20	169.46	1.33492									
166.54	20.2383	166.55	7.76279		166.54	34.7793	169.62	1.32635									
166.71	27.1641	166.71	7.7729		166.71	29.7969	169.79	1.32919									
166.87	18.6006	166.87	7.78528		166.87	29.9766	169.95	1.3151									
167.03	21.8682	167.04	7.79771		167.03	32.6895	170.11	1.3151									
167.2	25.4316	167.2	7.81017		167.2	20.0459	170.28	1.31093									
167.36	10.1426	167.36	7.8045		167.36	24.8252	170.44	1.30267									
167.53	10.0254	167.53	7.81017		167.53	30.1162	170.6	1.30267									
167.69	23.3193	167.69	7.81585		167.69	27.3877	170.77	1.3013									
167.85	28.2178	167.85	7.81358		167.85	37.3203	170.93	1.29722									

MWQ-2					MWQ-20					MWQ-20			M117MW001			M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)		Depth (ft)	Gamma (cps)
168.02	21.0537	168.02	7.81472		168.02	24.3701	171.1	1.30267									
168.18	26.3027	168.18	7.8204		168.18	19.9004	171.26	1.3013									
168.34	20.8828	168.35	7.81472		168.34	17.3936	171.42	1.30267									
168.51	25.9834	168.51	7.82838		168.51	19.7725	171.59	1.31093									
168.67	14.1045	168.67	7.84208		168.67	39.5527	171.75	1.3137									
168.83	15.8057	168.84	7.84781		168.83	37.2344	171.91	1.32352									
169	22.8438	169	7.86044		169	37.4648	172.08	1.32919									
169.16	14.106	169.16	7.86159		169.16	34.8242	172.24	1.33062									
169.33	8.7627	169.33	7.88697		169.33	47.6797	172.4	1.35238									
169.49	12.4204	169.49	7.89856		169.49	40.2227	172.57	1.35682									
169.65	17.21	169.65	7.91019		169.65	20.1113	172.73	1.37183									
169.82	28.0391	169.82	7.93823		169.82	47.1699	172.9	1.37793									
169.98	12.9541	169.98	7.95821		169.98	41.8574	173.06	1.39185									
170.14	19.0918	170.15	7.97356		170.14	27.126	173.22	1.40446									
170.31	21.0801	170.31	7.98778		170.31	31.8721	173.39	1.41245									
170.47	21.1914	170.47	8.00802		170.47	37.0293	173.55	1.43037									
170.63	27.6982	170.64	8.01877		170.63	29.7412	173.71	1.437									
170.8	23.3008	170.8	8.03195		170.8	42.3828	173.88	1.44034									
170.96	19.0215	170.96	8.04638		170.96	27.4922	174.04	1.44706									
171.13	21.4756	171.13	8.06087		171.13	47.2793	174.2	1.45045									
171.29	6.45386	171.29	8.08634		171.29	24.7988	174.37	1.45045									
171.45	10.6567	171.45	8.10341		171.45	42.832	174.53	1.44538									
171.62	19.2949	171.62	8.12669		171.62	20.1299	174.69	1.45215									
171.78	21.4102	171.78	8.14516		171.78	27.2559	174.86	1.45045									
171.94	19.293	171.95	8.16001		171.94	39.8828	175.02	1.45898									
172.11	10.5938	172.11	8.17241		172.11	42.2949	175.19	1.45898									
172.27	23.3613	172.27	8.1886		172.27	22.4697	175.35	1.45898									
172.43	14.8105	172.44	8.23503		172.43	36.6133	175.51	1.46242									
172.6	25.042	172.6	8.27433		172.6	34.5566	175.68	1.4607									
172.76	18.5693	172.76	8.31916		172.76	39.7695	175.84	1.47284									
172.93	16.4785	172.93	8.3463		172.93	24.877	176	1.48875									
173.09	22.7344	173.09	8.35148		173.09	27.0684	176.17	1.49774									
173.25	15.4771	173.25	8.32432		173.25	36.9277	176.33	1.50501									
173.42	6.43848	173.42	8.28709		173.42	22.4609	176.49	1.51236									
173.58	10.6787	173.58	8.24261		173.58	27.5186	176.66	1.51977									
173.74	27.9795	173.75	8.22243		173.74	37.4512	176.82	1.53672									
173.91	8.62305	173.91	8.19485		173.91	36.7598	176.99	1.5521									
174.07	21.1924	174.07	8.17988		174.07	32.5645	177.15	1.55795									
174.23	10.5317	174.24	8.14516		174.23	29.6328	177.31	1.57777									
174.4	24.8281	174.4	8.10219		174.4	24.1338	177.48	1.58382									
174.56	10.479	174.56	8.04157		174.56	31.5	177.64	1.60639									
174.73	22.7295	174.73	7.9783		174.73	27.0977	177.8	1.61897									
174.89	20.7041	174.89	7.91135		174.89	27.29	177.97	1.62533									
175.05	20.7529	175.05	7.87772		175.05	37.0918	178.13	1.64255									
175.22	21.0313	175.22	7.82724		175.22	12.3975	178.29	1.65571									
175.38	10.6323	175.38	7.7774		175.38	44.7793	178.46	1.67359									
175.54	25.6416	175.55	7.74601		175.54	24.9912	178.62	1.67812									
175.71	19.2432	175.71	7.71377		175.71	29.6807	178.79	1.68267									
175.87	12.877	175.87	7.69499		175.87	31.9375	178.95	1.69416									
176.03	10.7192	176.04	7.69719		176.03	17.1533	179.11	1.69185									
176.2	29.7656	176.2	7.69499		176.2	37.1055	179.28	1.6988									
176.36	19.2031	176.36	7.70713		176.36	31.5137	179.44	1.71288									
176.52	25.5303	176.53	7.72707		176.52	33.6055	179.6	1.72001									
176.69	21.1553	176.69	7.73932		176.69	29.0137	179.77	1.75159									
176.85	12.6162	176.85	7.75943		176.85	31.4766	179.93	1.75159									
177.02	16.9092	177.02	7.78303		177.02	36.5	180.09	1.78179									
177.18	16.8984	177.18	7.8011		177.18	14.4507	180.26	1.80513									
177.34	10.5493	177.34	7.82838		177.34	17.04	180.42	1.82909									
177.51	23.3389	177.51	7.82952		177.51	29.1797	180.59	1.85647									
177.67	15.0327	177.67	7.85125		177.67	41.1699	180.75	1.88468									
177.83	25.876	177.84	7.87541		177.83	19.416	180.91	1.90495									
178	14.9941	178	7.87772		178	28.3975	181.08	1.91673									
178.16	12.8828	178.16	7.88234		178.16	42.0879	181.24	1.92865									
178.32	21.2813	178.33	7.92418		178.32	34.2988	181.4	1.92865									
178.49	32.0352	178.49	7.96293		178.49	24.4199	181.57	1.94072									
178.65	14.7603	178.65	8.01279		178.65	26.8135	181.73	1.95295									
178.82	14.7354	178.82	8.06813		178.82	36.252	181.89	1.95912									
178.98	16.917	178.98	8.123		178.98	33.377	182.06	1.96533									
179.14	19.1406	179.14	8.18985		179.14	31.3945	182.22	1.97157									
179.31	21.1475	179.31	8.26161		179.31	17.0527	182.39	1.95912									
179.47	14.7759	179.47	8.3463		179.47	22.0254	182.55	1.94376									
179.63	23.4082	179.64	8.43009		179.63	34.0918	182.71	1.92267									
179.8	12.873	179.8	8.50749		179.8	26.8584	182.88	1.92267									
179.96	8.53516	179.96	8.54129		179.96	24.5684	183.04	1.90788									
180.12	23.4443	180.13	8.5508		180.12	24.4609	183.2	1.90495									
180.29	19.3105	180.29	8.53044		180.29	24.4795	183.37	1.91082									
180.45	23.6797	180.45	8.48331		180.45	24.376	183.53	1.91969									
180.62	10.6563	180.62	8.40109		180.62	27.0371	183.69	1.91082									
180.78	19.0684	180.78	8.28454		180.78	24.3926	183.86	1.90495									
180.94	21.2119	180.94	8.11932		180.94	26.7002	184.02	1.89043									
181.11	19.1309	181.11	7.90088		181.11	14.2969	184.19	1.85647									
181.27	8.40576	181.27	7.63378		181.27	33.9902	184.35	1.8157									
181.43	18.9541	181.44	7.34077		181.43	41.3789	184.51	1.75904									
181.6	8.40869	181.6	7.05458		181.6	24.1484	184.68	1.71763									
181.76	8.49902	181.76	6.78901		181.76	41.0566	184.84	1.67359									
181.92	23.4248	181.93	6.56188		181.92	24.376	185	1.6535									
182.09	12.8452	182.09	6.38112		182.09	14.6348	185.17	1.64473									
182.25	42.9102	182.25	6.24324		182.25	29.3926	185.33	1.67133									
182.42	25.8701	182.42	6.14614		182.42	39.4336	185.49	1.70347									
182.58	27.915	182.58	6.07664		182.58	19.623	185.66	1.7296									
182.74	25.3955	182.74	6.03298		182.74	29.5557	185.82	1.76405									
182.91	14.8486	182.91	6.02487		182.91	21.792	185.99	1.8104									

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
183.07	19.043	183.07	6.06156	183.07	36.1719	186.15	1.83995						
183.23	25.3369	183.24	6.14473	183.23	33.5547	186.31	1.84817						
183.4	39.9766	183.4	6.25778	183.4	29.0508	186.48	1.87897						
183.56	21.1631	183.56	6.38264	183.56	19.4141	186.64	1.89332						
183.72	36.1992	183.73	6.51574	183.72	24.2695	186.8	1.91673						
183.89	21.124	183.89	6.64135	183.89	36.6641	186.97	1.95295						
184.05	19.1006	184.05	6.75148	184.05	36.5996	187.13	1.98419						
184.22	8.55518	184.22	6.83564	184.22	21.9814	187.29	1.98419						
184.38	19.3613	184.38	6.91836	184.38	16.9922	187.46	1.98419						
184.54	19.1406	184.54	7.00493	184.54	24.6826	187.62	1.97786						
184.71	10.6631	184.71	7.08061	184.71	27.0332	187.78	1.95295						
184.87	14.9429	184.87	7.16366	184.87	29.2773	187.95	1.93467						
185.03	23.5127	185.04	7.23601	185.03	9.67285	188.11	1.91082						
185.2	16.9189	185.2	7.29197	185.2	26.8945	188.28	1.90788						
185.36	16.8896	185.36	7.34077	185.36	36.3164	188.44	1.90495						
185.52	23.2334	185.53	7.35685	185.52	31.3887	188.6	1.90203						
185.69	21.165	185.69	7.34579	185.69	33.8262	188.77	1.89332						
185.85	14.7529	185.85	7.32776	185.85	29.2041	188.93	1.89621						
186.02	18.8447	186.02	7.28505	186.02	51.127	189.09	1.86765						
186.18	16.9385	186.18	7.25065	186.18	14.4761	189.26	1.84817						
186.34	10.7402	186.34	7.21463	186.34	31.5654	189.42	1.82371						
186.51	19.2363	186.51	7.17131	186.51	34.2734	189.58	1.77161						
186.67	14.9395	186.67	7.14367	186.67	12.3696	189.75	1.71763						
186.83	10.772	186.84	7.11624	186.83	17.2969	189.91	1.6513						
187	8.59473	187	7.10119	187	39.2539	190.08	1.58584						
187.16	12.728	187.16	7.10307	187.16	24.6191	190.24	1.52726						
187.32	25.3018	187.33	7.11435	187.32	14.6548	190.4	1.49594						
187.49	16.8604	187.49	7.13987	187.49	26.3643	190.57	1.4607						
187.65	12.7354	187.65	7.16844	187.65	19.2207	190.73	1.43368						
187.82	14.7559	187.82	7.204	187.82	21.9854	190.89	1.3997						
187.98	23.1689	187.98	7.23114	187.98	14.6226	191.06	1.37487						
188.14	18.959	188.14	7.24869	188.14	24.4395	191.22	1.34214						
188.31	12.8037	188.31	7.25261	188.31	19.3838	191.38	1.32352						
188.47	17.0293	188.47	7.23893	188.47	17.1709	191.55	1.29451						
188.63	21.2617	188.64	7.2156	188.63	24.5371	191.71	1.28113						
188.8	19.1934	188.8	7.18762	188.8	24.4346	191.88	1.27849						
188.96	19.3252	188.96	7.15413	188.96	17.1631	192.04	1.27586						
189.12	8.55908	189.13	7.12851	189.12	17.335	192.2	1.28912						
189.29	8.48242	189.29	7.09182	189.29	22.207	192.37	1.30267						
189.45	10.6606	189.45	7.05458	189.45	22.0098	192.53	1.31929						
189.61	19.1533	189.62	7.01407	189.61	33.8887	192.69	1.33062						
189.78	18.9629	189.78	6.97402	189.78	14.4985	192.86	1.34359						
189.94	23.2148	189.94	6.94877	189.94	19.5498	193.02	1.34797						
190.11	10.5059	190.11	6.93801	190.11	28.998	193.18	1.35682						
190.27	21.167	190.27	6.94339	190.27	24.0908	193.35	1.35386						
190.43	27.3916	190.43	6.95597	190.43	21.9365	193.51	1.35238						
190.6	14.7798	190.6	6.95237	190.6	36.5449	193.68	1.34944						
190.76	23.5693	190.76	6.95237	190.76	21.9492	193.84	1.35534						
190.92	17.2559	190.93	6.93622	190.92	24.501	194	1.35386						
191.09	19.2246	191.09	6.90414	191.09	22.2852	194.17	1.36279						
191.25	21.4219	191.25	6.85482	191.25	22.3252	194.33	1.37487						
191.41	6.41113	191.42	6.82349	191.41	29.5488	194.49	1.39029						
191.58	10.6475	191.58	6.80966	191.58	46.0586	194.66	1.39655						
191.74	0	191.74	6.81138	191.74	21.9961	194.82	1.42381						
191.91	10.4644	191.91	6.84435	191.91	43.6035	194.98	1.44369						
192.07	6.34717	192.07	6.89351	192.07	33.7891	195.15	1.46761						
192.23	29.7207	192.23	6.9398	192.23	24.1924	195.31	1.48697						
192.4	18.9922	192.4	6.98308	192.4	19.5273	195.48	1.52538						
192.56	14.7446	192.56	7.00128	192.56	36.7188	195.64	1.53672						
192.72	14.8833	192.73	6.99763	192.72	21.8838	195.8	1.56582						
192.89	17.1211	192.89	6.97946	192.89	26.7217	195.97	1.59811						
193.05	19.248	193.05	6.95957	193.05	41.7148	196.13	1.62108						
193.21	10.626	193.22	6.94339	193.21	19.7451	196.29	1.64473						
193.38	19.2627	193.38	6.93264	193.38	39.1563	196.46	1.68039						
193.54	19.4131	193.54	6.92371	193.54	24.5977	196.62	1.70113						
193.71	8.43799	193.71	6.93085	193.71	26.958	196.78	1.73687						
193.87	12.6289	193.87	6.93264	193.87	19.7012	196.95	1.75159						
194.03	10.5107	194.03	6.93443	194.03	36.3691	197.11	1.76908						
194.2	8.51025	194.2	6.92371	194.2	43.5156	197.28	1.77161						
194.36	10.561	194.36	6.90237	194.36	36.4805	197.44	1.79468						
194.52	10.5435	194.53	6.86007	194.52	16.957	197.6	1.81305						
194.69	21.1709	194.69	6.80448	194.69	28.9219	197.77	1.83722						
194.85	25.584	194.85	6.73456	194.85	16.8506	197.93	1.87047						
195.01	12.6831	195.02	6.64628	195.01	31.6777	198.09	1.89043						
195.18	23.0576	195.18	6.54271	195.18	21.9863	198.26	1.90495						
195.34	14.6787	195.34	6.42691	195.34	39.3125	198.42	1.94072						
195.51	23.1064	195.51	6.29738	195.51	36.668	198.58	1.96844						
195.67	16.7402	195.67	6.1673	195.67	19.7822	198.75	1.98419						
195.83	18.5908	195.83	6.04384	195.83	29.3604	198.91	1.99376						
196	20.5322	196	5.93308	196	33.9414	199.08	1.98102						
196.16	18.4844	196.16	5.83389	196.16	43.3613	199.24	1.99697						
196.32	32.9551	196.33	5.74165	196.32	29.0098	199.4	1.99376						
196.49	22.6855	196.49	5.65465	196.49	16.9814	199.57	2.00667						
196.65	18.6943	196.65	5.57026	196.65	9.6665	199.73	2.00992						
196.81	29.2813	196.82	5.49283	196.81	36.2891	199.89	2.04978						
196.98	26.8896	196.98	5.40662	196.98	33.9453	200.06	2.05318						
197.14	23.001	197.14	5.32625	197.14	24.4316	200.22	2.06686						
197.31	39.8789	197.31	5.2513	197.31	29.0391	200.38	2.06686						
197.47	33.6777	197.47	5.18143	197.47	29.2734	200.55	2.08774						
197.63	37.4199	197.63	5.1212	197.63	19.6563	200.71	2.09479						
197.8	35.2578	197.8	5.06807	197.8	12.2808	200.87	2.09479						
197.96	37.4531	197.96	5.02448	197.96	34.2148	201.04	2.09834						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
198.12	22.8994	198.13	4.98533	198.12	26.709	201.2	2.10904						
198.29	36.8887	198.29	4.95225	198.29	31.6016	201.37	2.09126						
198.45	37.1348	198.45	4.92051	198.45	21.8877	201.53	2.09479						
198.61	18.6377	198.62	4.89363	198.61	14.4688	201.69	2.08774						
198.78	41.6133	198.78	4.87233	198.78	21.6055	201.86	2.10546						
198.94	31.0967	198.94	4.85385	198.94	12.1079	202.02	2.10546						
199.11	24.6055	199.11	4.84423	199.11	38.6563	202.18	2.08774						
199.27	41.6934	199.27	4.84423	199.27	41.0469	202.35	2.10904						
199.43	36.0215	199.43	4.86	199.43	21.7881	202.51	2.10546						
199.6	35.7031	199.6	4.89452	199.6	36.8164	202.67	2.12713						
199.76	35.4551	199.76	4.9486	199.76	19.7217	202.84	2.09834						
199.92	31.5205	199.93	5.0226	199.92	26.8984	203	2.10904						
200.09	35.5527	200.09	5.10563	200.09	21.8848	203.17	2.11263						
200.25	32.9238	200.25	5.18343	200.25	12.2266	203.33	2.09479						
200.41	40.7031	200.42	5.238	200.41	21.8438	203.49	2.11263						
200.58	37.043	200.58	5.27605	200.58	21.5605	203.66	2.10546						
200.74	22.9824	200.74	5.29163	200.74	28.8809	203.82	2.10546						
200.91	18.5996	200.91	5.28955	200.91	24.2217	203.98	2.09126						
201.07	31.124	201.07	5.29894	201.07	26.749	204.15	2.08073						
201.23	27.0967	201.23	5.31781	201.23	41.0957	204.31	2.06						
201.4	35.5938	201.4	5.34107	201.4	19.3096	204.47	2.06						
201.56	14.6689	201.56	5.37311	201.56	26.7783	204.64	2.02634						
201.72	22.999	201.73	5.39468	201.72	36.7051	204.8	1.98419						
201.89	37.5977	201.89	5.40228	201.89	24.3984	204.97	1.95295						
202.05	33.6152	202.05	5.39252	202.05	29.2021	205.13	1.92267						
202.21	33.2734	202.22	5.38172	202.21	39.3906	205.29	1.92267						
202.38	32.9082	202.38	5.37311	202.38	17.0918	205.46	1.94072						
202.54	24.791	202.54	5.36667	202.54	31.5947	205.62	1.97157						
202.71	22.7305	202.71	5.36132	202.71	23.9775	205.78	2.0464						
202.87	10.3857	202.87	5.35704	202.87	21.1855	205.95	2.12349						
203.03	28.8838	203.03	5.34851	203.03	32.541	206.11	2.19878						
203.2	24.8359	203.2	5.33895	203.2	34.1563	206.27	2.23444						
203.36	29.0918	203.36	5.33047	203.36	38.1738	206.44	2.25475						
203.52	35.2891	203.52	5.32414	203.52	30.417	206.6	2.25475						
203.69	20.8633	203.69	5.32203	203.69	30.5254	206.77	2.26298						
203.85	27.4072	203.85	5.31781	203.85	32.6992	206.93	2.26712						
204.01	21.1084	204.02	5.31781	204.01	26.5781	207.09	2.26712						
204.18	18.8193	204.18	5.32414	204.18	30.8945	207.26	2.2965						
204.34	33.4609	204.34	5.33365	204.34	33.1055	207.42	2.28382						
204.5	28.8721	204.51	5.34319	204.5	36.4941	207.58	2.26712						
204.67	26.8271	204.67	5.34958	204.67	20.2637	207.75	2.30076						
204.83	20.5156	204.83	5.35491	204.83	16.2051	207.91	2.28382						
205	18.5381	205	5.36239	205	32.4258	208.07	2.28803						
205.16	16.6064	205.16	5.36989	205.16	24.2686	208.24	2.25066						
205.32	43.9375	205.32	5.37096	205.32	30.2383	208.4	2.22243						
205.49	26.9502	205.49	5.37741	205.49	30.5029	208.57	2.19878						
205.65	18.6602	205.65	5.38064	205.65	28.4707	208.73	2.1833						
205.81	35.5938	205.82	5.3828	205.81	20.1826	208.89	2.14925						
205.98	25.2314	205.98	5.38172	205.98	20.2471	209.06	2.12349						
206.14	35.5195	206.14	5.38172	206.14	24.6465	209.22	2.09479						
206.3	31.1318	206.31	5.38387	206.3	20.4814	209.38	2.08073						
206.47	21.0322	206.47	5.38603	206.47	28.6895	209.55	2.04978						
206.63	39.5547	206.63	5.37204	206.63	16.3223	209.71	2.01318						
206.8	43.2324	206.8	5.35277	206.8	18.4053	209.87	2.00667						
206.96	32.7383	206.96	5.33259	206.96	8.11377	210.04	2.00667						
207.12	22.8389	207.12	5.30941	207.12	26.2598	210.2	2.02634						
207.29	24.9346	207.29	5.28851	207.29	32.1602	210.37	2.04978						
207.45	33.0449	207.45	5.27501	207.45	18.2109	210.53	2.08774						
207.61	32.9199	207.62	5.27191	207.61	34.373	210.69	2.09126						
207.78	39.2891	207.78	5.27294	207.78	18.0615	210.86	2.09479						
207.94	50.4492	207.94	5.28123	207.94	34.334	211.02	2.11986						
208.1	52.334	208.11	5.29059	208.1	18.3174	211.18	2.09479						
208.27	20.9658	208.27	5.30626	208.27	32.8867	211.35	2.10904						
208.43	50.3809	208.43	5.32414	208.43	30.6875	211.51	2.09834						
208.6	31.7188	208.6	5.34319	208.6	38.8984	211.67	2.09834						
208.76	41.4414	208.76	5.36132	208.76	28.6914	211.84	2.06686						
208.92	39.2617	208.92	5.38172	208.92	28.5615	212	2.0464						
209.09	24.7344	209.09	5.40445	209.09	22.0938	212.17	1.99056						
209.25	41.5273	209.25	5.42957	209.25	32.1699	212.33	1.95912						
209.41	45.375	209.42	5.46379	209.41	26.2764	212.49	1.91969						
209.58	45.3633	209.58	5.51764	209.58	28.3779	212.66	1.91082						
209.74	29.0908	209.74	5.60161	209.74	18.166	212.82	1.89621						
209.9	18.7002	209.91	5.68937	209.9	32.1074	212.98	1.89043						
210.07	29.1836	210.07	5.77993	210.07	22.3516	213.15	1.86205						
210.23	33.2344	210.23	5.88114	210.23	28.4463	213.31	1.83995						
210.4	27.2109	210.4	5.98195	210.4	24.3008	213.47	1.83722						
210.56	29.3643	210.56	6.07939	210.56	18.2881	213.64	1.8264						
210.72	27.1895	210.72	6.16871	210.72	32.8105	213.8	1.83995						
210.89	24.8271	210.89	6.25632	210.89	28.7148	213.96	1.83995						
211.05	18.748	211.05	6.34496	211.05	22.4697	214.13	1.84542						
211.21	18.7324	211.22	6.4177	211.21	24.1963	214.29	1.85093						
211.38	10.333	211.38	6.47648	211.38	28.3994	214.46	1.85647						
211.54	14.4063	211.54	6.51416	211.54	26.3633	214.62	1.8733						
211.7	22.709	211.71	6.5284	211.7	26.0771	214.78	1.88182						
211.87	14.5161	211.87	6.53634	211.87	38.0664	214.95	1.88468						
212.03	16.4473	212.03	6.56349	212.03	30.1621	215.11	1.89043						
212.2	10.3369	212.2	6.61194	212.2	22.3018	215.27	1.89621						
212.36	12.5669	212.36	6.66937	212.36	20.1924	215.44	1.90788						
212.52	16.8271	212.52	6.72277	212.52	26.4209	215.6	1.92267						
212.69	8.35107	212.69	6.78387	212.69	22.5684	215.76	1.91673						
212.85	10.4712	212.85	6.83217	212.85	24.6582	215.93	1.90203						
213.01	6.25171	213.02	6.84609	213.01	38.6855	216.09	1.89043						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
213.18	16.6523	213.18	6.84261	213.18	20.2764	216.26	1.87897						
213.34	18.5488	213.34	6.83912	213.34	28.3262	216.42	1.86205						
213.5	10.2397	213.51	6.83912	213.5	24.2217	216.58	1.82371						
213.67	14.46	213.67	6.85482	213.67	30.0977	216.75	1.82103						
213.83	8.30762	213.83	6.86884	213.83	30.0947	216.91	1.81305						
214	8.25537	214	6.89705	214	44.5117	217.07	1.8104						
214.16	18.5381	214.16	6.90769	214.16	34.4277	217.24	1.80251						
214.32	16.5957	214.32	6.90591	214.32	42.4141	217.4	1.8104						
214.49	8.36719	214.49	6.89351	214.49	26.0527	217.56	1.80513						
214.65	20.8516	214.65	6.88292	214.65	34.6445	217.73	1.8264						
214.81	10.374	214.82	6.86358	214.81	47.1309	217.89	1.8264						
214.98	14.6318	214.98	6.84609	214.98	18.2949	218.06	1.8157						
215.14	8.43018	215.14	6.83738	215.14	30.5869	218.22	1.79209						
215.3	4.13477	215.31	6.83043	215.3	28.7393	218.38	1.75904						
215.47	12.4102	215.47	6.82176	215.47	34.6113	218.55	1.71763						
215.63	12.4385	215.63	6.79932	215.63	16.1133	218.71	1.68267						
215.8	12.4551	215.8	6.76849	215.8	38.2305	218.87	1.66908						
215.96	2.05408	215.96	6.72277	215.96	52.3789	219.04	1.64692						
216.12	14.3545	216.12	6.67766	216.12	46.3867	219.2	1.64473						
216.29	6.16675	216.29	6.63643	216.29	43.9297	219.36	1.64473						
216.45	4.15942	216.45	6.58924	216.45	32.082	219.53	1.6535						
216.61	12.4448	216.61	6.55068	216.61	28.4014	219.69	1.65571						
216.78	8.33838	216.78	6.5189	216.78	34.7344	219.86	1.65571						
216.94	20.9951	216.94	6.49369	216.94	36.6836	220.02	1.64692						
217.1	4.19922	217.11	6.49056	217.1	48.918	220.18	1.6339						
217.27	12.5317	217.27	6.49684	217.27	35.0391	220.35	1.62533						
217.43	8.24316	217.43	6.51732	217.43	30.626	220.51	1.60639						
217.59	14.4785	217.6	6.5459	217.59	36.3984	220.67	1.60017						
217.76	12.3999	217.76	6.57956	217.76	33.7559	220.84	1.594						
217.92	8.22266	217.92	6.61356	217.92	28.2197	221	1.594						
218.09	10.2627	218.09	6.64957	218.09	30.3066	221.16	1.60017						
218.25	12.4497	218.25	6.6893	218.25	34.0918	221.33	1.61475						
218.41	12.4404	218.41	6.73288	218.41	61.9414	221.49	1.63822						
218.58	10.3267	218.58	6.7873	218.58	32.4492	221.66	1.64473						
218.74	6.21606	218.74	6.84086	218.74	36.4785	221.82	1.6535						
218.9	6.26733	218.91	6.89351	218.9	36.3262	221.98	1.66237						
219.07	12.5571	219.07	6.94339	219.07	34.4063	222.15	1.64473						
219.23	8.32764	219.23	7.00493	219.23	28.5645	222.31	1.6513						
219.39	18.7676	219.4	7.06943	219.39	30.6758	222.47	1.6513						
219.56	4.15796	219.56	7.13229	219.56	36.4629	222.64	1.6535						
219.72	12.5356	219.72	7.17898	219.72	24.1367	222.8	1.66014						
219.89	4.11011	219.89	7.18666	219.89	44.293	222.96	1.66908						
220.05	12.377	220.05	7.16844	220.05	26.2197	223.13	1.68039						
220.21	8.22803	220.21	7.14272	220.21	29.8457	223.29	1.69416						
220.38	6.19897	220.38	7.10871	220.38	41.8945	223.46	1.69416						
220.54	16.4297	220.54	7.07129	220.54	34.1836	223.62	1.70347						
220.7	4.09473	220.71	7.04349	220.7	32.1563	223.78	1.70816						
220.87	8.29883	220.87	7.02324	220.87	22.123	223.95	1.7224						
221.03	2.10034	221.03	7.00128	221.03	34.3027	224.11	1.71763						
221.19	8.33594	221.2	6.97221	221.19	42.9102	224.27	1.7296						
221.36	6.27246	221.36	6.94518	221.36	20.4238	224.44	1.7296						
221.52	12.5801	221.52	6.91302	221.52	38.7422	224.6	1.74666						
221.69	10.4097	221.69	6.90059	221.69	38.2715	224.76	1.75407						
221.85	16.5371	221.85	6.88998	221.85	30.3652	224.93	1.74912						
222.01	10.2163	222.01	6.88645	222.01	38.1211	225.09	1.76405						
222.18	10.3115	222.18	6.89351	222.18	30.0781	225.26	1.78179						
222.34	8.28125	222.34	6.92014	222.34	22.0908	225.42	1.77414						
222.5	12.3506	222.51	6.95597	222.5	32.4004	225.58	1.78179						
222.67	6.15747	222.67	7.00128	222.67	36.4004	225.75	1.79989						
222.83	2.06738	222.83	7.05829	222.83	44.3574	225.91	1.80251						
222.99	12.4448	223	7.11059	222.99	46.2402	226.07	1.82103						
223.16	8.31201	223.16	7.13703	223.16	50.8457	226.24	1.82909						
223.32	8.28906	223.32	7.12095	223.32	36.666	226.4	1.83995						
223.49	6.23706	223.49	7.08995	223.49	40.2715	226.56	1.85093						
223.65	8.42139	223.65	7.05644	223.65	42.5703	226.73	1.85093						
223.81	8.28809	223.81	7.0159	223.81	24.332	226.89	1.86765						
223.98	12.4214	223.98	6.99217	223.98	52.9414	227.05	1.87047						
224.14	12.3691	224.14	6.98308	224.14	48.4199	227.22	1.86205						
224.3	8.2915	224.31	6.9704	224.3	28.2607	227.38	1.86205						
224.47	10.2739	224.47	6.94518	224.47	36.2598	227.55	1.8733						
224.63	14.3374	224.63	6.90946	224.63	22.2451	227.71	1.85647						
224.79	8.19189	224.8	6.86007	224.79	36.0664	227.87	1.83722						
224.96	14.4463	224.96	6.81657	224.96	48.168	228.04	1.8345						
225.12	4.11865	225.12	6.7702	225.12	28.5293	228.2	1.84542						
225.29	12.458	225.29	6.73625	225.29	34.6992	228.36	1.86765						
225.45	2.09387	225.45	6.70767	225.45	38.6621	228.53	1.88468						
225.61	12.5635	225.61	6.68264	225.61	32.4336	228.69	1.90788						
225.78	4.19531	225.78	6.65286	225.78	26.584	228.85	1.92267						
225.94	6.20728	225.94	6.62661	225.94	46.7988	229.02	1.90788						
226.1	10.3457	226.11	6.59247	226.1	38.5156	229.18	1.88468						
226.27	4.12695	226.27	6.55868	226.27	43.9707	229.35	1.88468						
226.43	8.19971	226.43	6.52682	226.43	40.3809	229.51	1.88182						
226.59	6.15332	226.6	6.49056	226.59	50.4336	229.67	1.8733						
226.76	4.12061	226.76	6.4547	226.76	38.3672	229.84	1.87897						
226.92	6.22021	226.92	6.41617	226.92	46.2969	230	1.88468						
227.09	8.21045	227.09	6.36902	227.09	58.5996	230.16	1.89043						
227.25	8.25195	227.25	6.31811	227.25	42.8223	230.33	1.89332						
227.41	8.25488	227.41	6.27093	227.41	32.1758	230.49	1.89332						
227.58	20.96	227.58	6.22733	227.58	38.2578	230.65	1.89621						
227.74	6.21582	227.74	6.20003	227.74	48.8457	230.82	1.89332						
227.9	10.3965	227.91	6.18718	227.9	36.4629	230.98	1.89332						
228.07	8.33496	228.07	6.18291	228.07	52.4199	231.15	1.88468						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
228.23	18.7637	228.23	6.19145	228.23	36.5625	231.31	1.88182						
228.39	18.5547	228.4	6.1986	228.39	50.3516	231.47	1.86765						
228.56	12.3516	228.56	6.21006	228.56	38.6055	231.64	1.84542						
228.72	10.2773	228.72	6.21868	228.72	48.2578	231.8	1.84817						
228.89	12.3853	228.89	6.23455	228.89	38.0117	231.96	1.82909						
229.05	16.3887	229.05	6.26508	229.05	34.4355	232.13	1.82371						
229.21	14.2778	229.21	6.29443	229.21	34.2539	232.29	1.82371						
229.38	10.3013	229.38	6.33001	229.38	30.3115	232.45	1.82103						
229.54	12.4829	229.54	6.37204	229.54	56.8438	232.62	1.79468						
229.7	6.25537	229.7	6.41923	229.7	45.1914	232.78	1.7895						
229.87	8.31006	229.87	6.46402	229.87	34.5527	232.95	1.76908						
230.03	10.4883	230.03	6.50627	230.03	42.248	233.11	1.75159						
230.19	12.5498	230.2	6.53634	230.19	36.2754	233.27	1.73687						
230.36	14.4644	230.36	6.54271	230.36	38.7891	233.44	1.71288						
230.52	10.2358	230.52	6.53953	230.52	30.1738	233.6	1.71052						
230.68	8.21777	230.69	6.53793	230.68	35.9805	233.76	1.68955						
230.85	10.3481	230.85	6.55228	230.85	44.332	233.93	1.68039						
231.01	16.4199	231.01	6.58601	231.01	34.4219	234.09	1.65571						
231.18	20.3145	231.18	6.63807	231.18	30.3398	234.25	1.6535						
231.34	11.8081	231.34	6.6943	231.34	24.416	234.42	1.6535						
231.5	13.7227	231.5	6.72109	231.5	40.3848	234.58	1.64255						
231.67	13.6255	231.67	6.72613	231.67	16.3027	234.75	1.62533						
231.83	15.623	231.83	6.70767	231.83	14.4629	234.91	1.61475						
231.99	3.91772	232	6.67269	231.99	28.2861	235.07	1.594						
232.16	7.88721	232.16	6.63643	232.16	54.4902	235.24	1.5678						
232.32	13.7383	232.32	6.61356	232.32	51.1504	235.4	1.54054						
232.48	9.7207	232.49	6.59895	232.48	38.541	235.56	1.52538						
232.65	15.4941	232.65	6.59895	232.65	35.709	235.73	1.51977						
232.81	7.75879	232.81	6.58601	232.81	37.3809	235.89	1.50684						
232.98	9.62744	232.98	6.57634	232.98	53.7344	236.05	1.50137						
233.14	15.2583	233.14	6.56509	233.14	43.4453	236.22	1.51051						
233.3	9.61914	233.3	6.56028	233.3	33.5391	236.38	1.50501						
233.47	3.85754	233.47	6.56188	233.47	41.3457	236.55	1.5142						
233.63	7.57983	233.63	6.57151	233.63	31.9336	236.71	1.5142						
233.79	9.06982	233.8	6.59085	233.79	41.7207	236.87	1.52914						
233.96	12.6724	233.96	6.61356	233.96	43.9141	237.04	1.54245						
234.12	10.6694	234.12	6.65946	234.12	31.6367	237.2	1.54823						
234.28	3.19666	234.29	6.70767	234.28	33.9961	237.36	1.556						
234.45	14.2075	234.45	6.76849	234.45	28.042	237.53	1.55016						
234.61	11.7168	234.61	6.81311	234.61	27.8975	237.69	1.556						
234.78	10.9556	234.78	6.85832	234.78	35.4707	237.85	1.5521						
234.94	13.6313	234.94	6.8706	234.94	33.5762	238.02	1.54437						
235.1	8.11865	235.1	6.85832	235.1	43.6621	238.18	1.54823						
235.27	9.53906	235.27	6.83738	235.27	37.5293	238.35	1.5521						
235.43	2.72925	235.43	6.80966	235.43	29.6924	238.51	1.55016						
235.59	11.2529	235.6	6.77874	235.59	41.873	238.67	1.54823						
235.76	10.1855	235.76	-999	235.76	44	238.84	1.54054						
235.92	5.43091	235.92	-999	235.92	35.7734	239	1.52726						
236.08	7.35645	236.09	-999	236.08	23.8369	239.16	1.51977						
236.25	15.79	236.25	-999	236.25	29.8555	239.33	1.51791						
				236.41	33.8184	239.49	1.49774						
				236.58	39.8184	239.65	1.48697						
				236.74	33.875	239.82	1.48164						
				236.9	17.8711	239.98	1.46935						
				237.07	23.7959	240.15	1.45215						
				237.23	25.6729	240.31	1.43867						
				237.39	29.4189	240.47	1.43867						
				237.56	31.8193	240.64	1.43368						
				237.72	21.7979	240.8	1.43037						
				237.88	23.7451	240.96	1.437						
				238.05	25.8232	241.13	1.44706						
				238.21	26.1426	241.29	1.45385						
				238.38	25.9912	241.45	1.46761						
				238.54	29.8271	241.62	1.47284						
				238.7	27.7422	241.78	1.48875						
				238.87	19.96	241.94	1.51051						
				239.03	9.89307	242.11	1.52914						
				239.19	25.5684	242.27	1.556						
				239.36	21.6992	242.44	1.55991						
				239.52	25.8135	242.6	1.58584						
				239.68	17.8906	242.76	1.59195						
				239.85	17.7939	242.93	1.60223						
				240.01	29.7666	243.09	1.61475						
				240.18	31.8672	243.25	1.61056						
				240.34	21.9697	243.42	1.61475						
				240.5	27.7959	243.58	1.61897						
				240.67	31.7432	243.74	1.62533						
				240.83	17.9658	243.91	1.62747						
				240.99	20.0371	244.07	1.62747						
				241.16	13.8057	244.24	1.6296						
				241.32	35.4258	244.4	1.62747						
				241.48	27.6855	244.56	1.62108						
				241.65	29.708	244.73	1.61897						
				241.81	23.623	244.89	1.59811						
				241.98	21.6045	245.05	1.59195						
				242.14	35.8242	245.22	1.56979						
				242.3	24.0039	245.38	1.56582						
				242.47	29.9355	245.54	1.56582						
				242.63	31.9063	245.71	1.55991						
				242.79	24.0527	245.87	1.5521						
				242.96	23.9658	246.04	1.55016						
				243.12	49.5	246.2	1.54823						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				243.28	25.499	246.36	1.55016						
				243.45	23.6982	246.53	1.56188						
				243.61	13.8862	246.69	1.5678						
				243.77	13.8208	246.85	1.56979						
				243.94	15.7861	247.02	1.5818						
				244.1	29.7949	247.18	1.58991						
				244.27	23.918	247.34	1.5818						
				244.43	25.7822	247.51	1.57577						
				244.59	27.7754	247.67	1.57577						
				244.76	15.9648	247.84	1.56979						
				244.92	28.1025	248	1.57777						
				245.08	19.8545	248.16	1.59195						
				245.25	21.8516	248.33	1.60847						
				245.41	25.6973	248.49	1.61686						
				245.57	15.8872	248.65	1.61897						
				245.74	25.5811	248.82	1.63605						
				245.9	27.4561	248.98	1.64692						
				246.07	25.7285	249.14	1.6513						
				246.23	37.6035	249.31	1.6535						
				246.39	19.7207	249.47	1.66237						
				246.56	33.8262	249.64	1.67133						
				246.72	20.0488	249.8	1.67133						
				246.88	15.9932	249.96	1.66014						
				247.05	19.9961	250.13	1.64692						
				247.21	35.5488	250.29	1.63605						
				247.37	19.8955	250.45	1.63605						
				247.54	33.4863	250.62	1.66014						
				247.7	27.4697	250.78	1.68039						
				247.87	23.5059	250.94	1.71763						
				248.03	23.793	251.11	1.74666						
				248.19	19.791	251.27	1.77923						
				248.36	23.7227	251.44	1.78435						
				248.52	17.7676	251.6	1.78435						
				248.68	33.8262	251.76	1.79209						
				248.85	27.9531	251.93	1.80251						
				249.01	21.8799	252.09	1.8157						
				249.17	23.9873	252.25	1.8345						
				249.34	27.9824	252.42	1.85925						
				249.5	17.9658	252.58	1.86765						
				249.67	33.416	252.74	1.88182						
				249.83	15.7407	252.91	1.90495						
				249.99	17.7295	253.07	1.90203						
				250.16	23.7266	253.24	1.90495						
				250.32	33.2949	253.4	1.91673						
				250.48	17.6934	253.56	1.89332						
				250.65	21.877	253.73	1.88468						
				250.81	16.0205	253.89	1.89043						
				250.97	21.9092	254.05	1.90495						
				251.14	35.8887	254.22	1.90788						
				251.3	34.0801	254.38	1.92267						
				251.47	9.98193	254.54	1.95912						
				251.63	15.7783	254.71	1.97157						
				251.79	29.2246	254.87	1.97157						
				251.96	29.7207	255.03	1.99056						
				252.12	27.5928	255.2	2.00019						
				252.28	25.5938	255.36	2.00992						
				252.45	19.6211	255.53	2.01318						
				252.61	21.834	255.69	2.02303						
				252.77	27.7754	255.85	2.02303						
				252.94	21.7939	256.02	2.03632						
				253.1	17.8008	256.18	2.03967						
				253.27	11.981	256.34	2.06686						
				253.43	20.0693	256.51	2.06						
				253.59	15.9077	256.67	2.06686						
				253.76	9.86133	256.83	2.10546						
				253.92	13.8438	257	2.09834						
				254.08	17.7832	257.16	2.10546						
				254.25	19.5518	257.33	2.12349						
				254.41	17.5957	257.49	2.15298						
				254.57	19.6426	257.65	2.15298						
				254.74	15.8438	257.82	2.18715						
				254.9	27.6064	257.98	2.19489						
				255.07	13.9023	258.14	2.23042						
				255.23	22.042	258.31	2.22243						
				255.39	12.0396	258.47	2.22243						
				255.56	13.9585	258.63	2.23444						
				255.72	13.8408	258.8	2.26712						
				255.88	11.8364	258.96	2.25066						
				256.05	21.6787	259.13	2.26712						
				256.21	13.7485	259.29	2.23444						
				256.37	23.5537	259.45	2.21449						
				256.54	13.8711	259.62	2.1833						
				256.7	15.7954	259.78	2.14925						
				256.86	9.85352	259.94	2.15298						
				257.03	15.7256	260.11	2.13445						
				257.19	17.9277	260.27	2.16803						
				257.36	23.8848	260.43	2.16425						
				257.52	9.95313	260.6	2.17946						
				257.68	11.8887	260.76	2.20269						
				257.85	12.001	260.93	2.22243						
				258.01	15.8247	261.09	2.23847						
				258.17	21.6123	261.25	2.20661						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				258.34	17.6445	261.42	2.19489						
				258.5	17.7031	261.58	2.13813						
				258.66	17.7031	261.74	2.09126						
				258.83	13.7285	261.91	2.03632						
				258.99	17.6787	262.07	1.96844						
				259.16	5.97949	262.23	1.92267						
				259.32	8.00342	262.4	1.90495						
				259.48	19.8281	262.56	1.8733						
				259.65	21.9688	262.73	1.84817						
				259.81	11.9121	262.89	1.82103						
				259.97	13.8955	263.05	1.80513						
				260.14	13.7134	263.22	1.8104						
				260.3	17.5479	263.38	1.80513						
				260.46	21.6582	263.54	1.8157						
				260.63	31.5986	263.71	1.84542						
				260.79	9.79395	263.87	1.87047						
				260.96	17.6934	264.03	1.92865						
				261.12	11.8237	264.2	1.97786						
				261.28	9.93457	264.36	2.06						
				261.45	13.8882	264.53	2.13813						
				261.61	13.8638	264.69	2.22243						
				261.77	6.00391	264.85	2.3223						
				261.94	21.877	265.02	2.43158						
				262.1	11.8477	265.18	2.50021						
				262.26	9.78174	265.34	2.55166						
				262.43	13.8096	265.51	2.55166						
				262.59	7.854	265.67	2.55692						
				262.76	3.91016	265.83	2.51543						
				262.92	9.76074	266	2.5412						
				263.08	13.7813	266.16	2.55692						
				263.25	13.8818	266.33	2.55692						
				263.41	7.92847	266.49	2.62178						
				263.57	11.9028	266.65	2.61625						
				263.74	8.01563	266.82	2.55692						
				263.9	8.00342	266.98	2.53083						
				264.06	3.94019	267.14	2.48021						
				264.23	11.7856	267.31	2.47526						
				264.39	7.83862	267.47	2.47033						
				264.56	5.90137	267.63	2.49017						
				264.72	5.87524	267.8	2.52054						
				264.88	9.82764	267.96	2.5412						
				265.05	3.94958	268.12	2.5412						
				265.21	9.91016	268.29	2.59436						
				265.37	21.6162	268.45	2.5412						
				265.54	23.7158	268.62	2.53083						
				265.7	25.8516	268.78	2.44597						
				265.86	19.9688	268.94	2.39403						
				266.03	19.8867	269.11	2.31364						
				266.19	25.6807	269.27	2.24658						
				266.36	15.8711	269.43	2.19489						
				266.52	15.8628	269.6	2.13445						
				266.68	9.82861	269.76	2.07725						
				266.85	21.5205	269.92	2.0464						
				267.01	21.6289	270.09	2.00667						
				267.17	25.5479	270.25	1.97786						
				267.34	21.6377	270.42	1.97786						
				267.5	25.6484	270.58	1.97157						
				267.66	10.0176	270.74	1.97157						
				267.83	30.1094	270.91	1.95603						
				267.99	25.8984	271.07	1.93467						
				268.16	11.894	271.23	1.92865						
				268.32	27.6924	271.4	1.93467						
				268.48	13.8252	271.56	1.94072						
				268.65	11.75	271.72	1.94681						
				268.81	25.4385	271.89	1.98419						
				268.97	27.6982	272.05	1.99697						
				269.14	11.8848	272.22	1.99376						
				269.3	21.6338	272.38	2.00992						
				269.46	27.5732	272.54	2.00667						
				269.63	23.8262	272.71	2.00667						
				269.79	15.9907	272.87	1.99376						
				269.96	29.7207	273.03	1.99376						
				270.12	19.9131	273.2	1.95912						
				270.28	25.876	273.36	1.94072						
				270.45	25.9756	273.52	1.91673						
				270.61	33.3574	273.69	1.91969						
				270.77	21.5576	273.85	1.89621						
				270.94	37.5547	274.02	1.89043						
				271.1	27.5586	274.18	1.8733						
				271.26	25.5186	274.34	1.85925						
				271.43	19.6025	274.51	1.84542						
				271.59	15.8643	274.67	1.8345						
				271.75	32.0098	274.83	1.8264						
				271.92	17.9805	275	1.82371						
				272.08	9.94043	275.16	1.8157						
				272.25	24.1621	275.32	1.80251						
				272.41	31.7715	275.49	1.81305						
				272.57	21.6855	275.65	1.78435						
				272.74	21.5391	275.82	1.79989						
				272.9	17.7949	275.98	1.78179						
				273.06	11.8418	276.14	1.79989						
				273.23	13.8218	276.31	1.79209						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				273.39	15.7729	276.47	1.79468						
				273.55	17.8154	276.63	1.79989						
				273.72	17.9014	276.8	1.82371						
				273.88	17.8486	276.96	1.82103						
				274.05	13.8862	277.12	1.83995						
				274.21	15.9053	277.29	1.86205						
				274.37	11.9614	277.45	1.89332						
				274.54	17.7061	277.62	1.90788						
				274.7	19.6846	277.78	1.94376						
				274.86	23.6426	277.94	1.99697						
				275.03	21.8154	278.11	2.03632						
				275.19	13.7607	278.27	2.08774						
				275.35	5.88477	278.43	2.11263						
				275.52	15.8237	278.6	2.15298						
				275.68	3.96191	278.76	2.13813						
				275.85	15.8105	278.92	2.11263						
				276.01	13.9019	279.09	2.10904						
				276.17	3.99377	279.25	2.07377						
				276.34	19.998	279.42	2.0464						
				276.5	29.9072	279.58	2.0464						
				276.66	7.8562	279.74	2.02634						
				276.83	9.81934	279.91	2.01318						
				276.99	17.6113	280.07	2.01318						
				277.15	15.7505	280.23	2.02634						
				277.32	23.6104	280.4	2.03298						
				277.48	13.9077	280.56	2.0464						
				277.65	21.8203	280.72	2.06686						
				277.81	9.89111	280.89	2.08774						
				277.97	13.8032	281.05	2.12713						
				278.14	13.9766	281.21	2.15672						
				278.3	11.9248	281.38	2.22243						
				278.46	19.8125	281.54	2.27962						
				278.63	19.8457	281.71	2.31364						
				278.79	21.7383	281.87	2.32666						
				278.95	17.71	282.03	2.33542						
				279.12	5.84717	282.2	2.32666						
				279.28	15.7461	282.36	2.27962						
				279.45	3.95215	282.52	2.25066						
				279.61	17.8164	282.69	2.19489						
				279.77	15.708	282.85	2.13813						
				279.94	7.88647	283.01	2.10904						
				280.1	13.9341	283.18	2.08073						
				280.26	6.04102	283.34	2.05318						
				280.43	7.96899	283.51	2.00667						
				280.59	11.9131	283.67	1.99376						
				280.75	13.9531	283.83	1.96844						
				280.92	15.7725	284	1.93165						
				281.08	9.69482	284.16	1.91969						
				281.25	17.4844	284.32	1.89621						
				281.41	15.7871	284.49	1.87897						
				281.57	7.90942	284.65	1.8733						
				281.74	15.8286	284.81	1.87047						
				281.9	23.5576	284.98	1.88182						
				282.06	19.8809	285.14	1.8733						
				282.23	13.9341	285.31	1.88468						
				282.39	5.93677	285.47	1.92267						
				282.55	21.7314	285.63	1.94681						
				282.72	29.8916	285.8	1.97786						
				282.88	17.8789	285.96	2.00992						
				283.05	7.8772	286.12	2.0464						
				283.21	9.73145	286.29	2.06342						
				283.37	5.90991	286.45	2.09126						
				283.54	17.8369	286.61	2.11986						
				283.7	7.82861	286.78	2.15298						
				283.86	21.6211	286.94	2.15298						
				284.03	5.9292	287.11	2.17946						
				284.19	7.93799	287.27	2.19878						
				284.35	13.8633	287.43	2.17183						
				284.52	7.96948	287.6	2.16425						
				284.68	11.9443	287.76	2.12349						
				284.84	17.9629	287.92	2.09834						
				285.01	21.6787	288.09	2.05318						
				285.17	9.7876	288.25	2.03632						
				285.34	17.4277	288.41	2.02303						
				285.5	9.80811	288.58	2.00667						
				285.66	17.6943	288.74	1.97786						
				285.83	17.7256	288.91	1.96533						
				285.99	9.92627	289.07	1.93165						
				286.15	9.87549	289.23	1.92267						
				286.32	11.5107	289.4	1.90788						
				286.48	11.4941	289.56	1.90495						
				286.64	5.79321	289.72	1.88468						
				286.81	11.5625	289.89	1.8733						
				286.97	15.3618	290.05	1.8733						
				287.14	15.3008	290.21	1.85647						
				287.3	11.4893	290.38	1.85093						
				287.46	19.0234	290.54	1.82371						
				287.63	19.0352	290.71	1.79209						
				287.79	13.291	290.87	1.75904						
				287.95	24.9541	291.03	1.71288						
				288.12	34.4609	291.2	1.64255						
				288.28	22.8496	291.36	1.54823						

MWQ-2				MWQ-20				MWQ-20		M117MW001		M117MW001	
Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	I. Res (ohm-m)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)	Depth (ft)	Gamma (cps)
				288.44	26.7813	291.52	1.45385						
				288.61	11.5884	291.69	1.381						
				288.77	17.4678	291.85	1.32635						
				288.94	23.1025	292.01	1.29047						
				289.1	15.3999	292.18	1.26287						
				289.26	21.1309	292.34	1.2514						
				289.43	11.4761	292.51	1.23766						
				289.59	13.188	292.67	1.21821						
				289.75	34.2559	292.83	1.20285						
				289.92	15.083	293	1.1913						
				290.08	15.7793	293.16	1.18221						
				290.24	12.1597	293.32	1.18221						
				290.41	13.9165	293.49	1.18334						
				290.57	22.6953	293.65	1.18901						
				290.74	20.6797	293.81	1.1982						
				290.9	20.5156	293.98	1.20636						
				291.06	13.6187	294.14	1.21702						
				291.23	22.2754	294.31	1.23152						
				291.39	18.4629	294.47	1.24762						
				291.55	12.707	294.63	1.25267						
				291.72	18.7383	294.8	1.25267						
				291.88	12.6411	294.96	1.25267						
				292.04	23.6465	295.12	1.25267						
				292.21	23.5254	295.29	1.2514						
				292.37	28.79	295.45	1.24888						
				292.54	20.1641	295.61	1.24888						
				292.7	32.6172	295.78	1.24637						
				292.86	32.0918								
				293.03	33.498								
				293.19	29.9385								
				293.35	27.0488								
				293.52	28.6484								
				293.68	31.5342								
				293.84	30.3037								
				294.01	33.7578								
				294.17	26.0762								
				294.34	20.2598								
				294.5	40.6641								
				294.66	27.8379								
				294.83	24.4463								
				294.99	32.8145								
				295.15	21.9297								
				295.32	31.1641								
				295.48	31.5547								
				295.64	34.2441								
				295.81	30.5098								
				295.97	30.8369								
				296.14	39.0977								
				296.3	27.4932								
				296.46	25.9287								
				296.63	29.8926								
				296.79	25.8516								