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DEPARTMENT OF THE AIR FORCE

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HOLLOMAN AIR FORCE BASE, NEW MEXICO

JUN 20 2013

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NMED Hazardous Waste Bureau

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New Mexico Environment Department
Attn: Mr. John Kieling, Chief
Hazardous Waste Bureau
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Dear Mr. Kieling

Holloman Air Force Base is pleased to submit the Final SS-18 Accelerated Corrective Measures Completion Report for your review.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Ms. DeAnna Rothhaupt of our Asset Management Flight at (575) 572-3931.

Sincerely

20130620

A. DAVID BUDAK, GS-14, DAFC

Attachment:
Final SD-08 Long Term Monitoring Report, Quarter 6, Spring 2013

cc:

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FINAL

SITE SS-18 ACCELERATED CORRECTIVE MEASURES COMPLETION REPORT HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Contract No. W9128F-11-D-0029
Task Order No. 0002

June 2013

Prepared by:

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1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project Number: 11-0020

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SITE SS-18 ACCELERATED CORRECTIVE MEASURES COMPLETION REPORT HOLLOMAN AIR FORCE BASE, NEW MEXICO

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B Supplemental ACM Soil Boring Logs
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D Supplemental ACM Monitoring Well Development Forms
E Supplemental ACM Monitoring Well Sample Collection Forms
F Supplemental ACM Analytical Data Packages (Provided on Enclosed CD)
G Supplemental ACM Data Validation Reports

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LIST OF ACRONYMS

AAF	Army Air Field
ACM	Accelerated Corrective Measures
AGE	Aerospace Ground Equipment
amsl	Above mean sea level
AOC	Area of Concern
ASTM	ASTM International, formerly American Society for Testing and Materials
atm-m^3/mol	Atmospheric-cubic meters per mole
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
°C	Degrees Celsius
CES/CEAN	Civil Engineering Squadron/Environmental Asset Management Flight
cis-1,2-DCE	cis-1,2-Dichloroethylene
CFR	Code of Federal Regulations
cm	Centimeters
cm^3/cm^3	Cubic centimeters per cubic centimeter
COPC	Chemical of potential concern
CRS	Component Repair Squadron
CSIA	Compound Specific Isotope Analysis
CVOC	Chlorinated Volatile Organic Compound
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
DPT	Direct push technology
DRO	Diesel Range Organics
EM	Exposure Model
EP	Extraction Procedure
ERP	Environmental Restoration Program
°F	Degrees Fahrenheit
ft	Feet or foot
g/cm^3	Grams per cubic centimeter
g/g	Grams per gram
GPS	Global Positioning System
GRO	Gasoline Range Organics
H	Henry's Law Constant
HAFB	Holloman Air Force Base
HHMSSL	Human Health Medium Specific Screening Level
HI	Hazard Index
IDW	Investigation Derived Waste
IELCR	Individual Excess Lifetime Cancer Risk
IRP	Installation Restoration Program
J	Data Qualifier (denotes an estimated value)
J&E	Johnson & Ettinger
LCS	Laboratory Control Spike

MCL	Maximum Contaminant Level
MDL	Method detection limit
MGD	Million gallons per day
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
mg/kg	Milligrams per kilogram
mg/kg-day	Milligram per kilogram per day
mg/L	Milligrams per liter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NAVD	North American Vertical Datum
NFA	No Further Action
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NMWRRS	New Mexico Water Rights Reporting System
ORO	Oil Range Organics
OWS	Oil/Water Separator
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethylene
PCS	Petroleum Contaminated Soil
PID	Photoionization detector
ppm	Parts per million
PRG	Preliminary Remediation Goal
PVC	Polyvinyl chloride
Q	Data Qualifier (denotes an elevated reporting limit)
QA/QC	Quality Assurance/Quality Control
RA	Risk Assessment
RAM	Risk Assessment Management
RBC	Risk-Based Concentration
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RPD	Relative Percent Difference
RSL	Regional Screening Level
SACM	Supplemental Accelerated Corrective Measures
SOP	Standard Operating Procedure
SS-18	Chromic Acid Spill Area
SSLs	Soil Screening Levels
SVOC	Semi-volatile organic compound
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethylene
TCEQ	Texas Commission on Environmental Quality
TDS	Total dissolved solids

TPH	Total petroleum hydrocarbons
UJ	Data Qualifier (denotes an estimated non detected value)
USACE	United States Army Corps of Engineers
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit
VC	Vinyl chloride
VOC	Volatile organic compound
WRCC	Western Regional Climate Center
WWTP	Wastewater Treatment Plant
3-D	Three dimensional

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1 INTRODUCTION

This Accelerated Corrective Measures (ACM) Completion Report was prepared for the Holloman Air Force Base (HAFB) 49th Civil Engineering Squadron/Environmental Asset Management Flight (CES/CEAN) by NationView, LLC under U.S. Army Corps of Engineers (USACE), Omaha District Contract W9128F-11-D-0029, Task Order No. 0002. This report presents the analytical results including a human health risk assessment (Section 8), conclusions, and recommendations (Section 9) of the following three ACM investigations which were conducted at Site SS-18 from 2007 through 2012:

- ACM Investigation conducted by Bhate Environmental Associates, Inc. (Bhate) in June/October 2007;
- ACM Addendum investigation performed by NationView between August 17 and October 1, 2009; and the
- Supplemental ACM investigation conducted by NationView between August 13 and September 14, 2012.

Environmental Restoration Program (ERP) Site SS-18 (Chromic Acid Spill Area) is listed as Area of Concern (AOC) H on the HAFB Hazardous Waste Facility Permit No. NM6572124422, Appendix 4-A (New Mexico Environment Department [NMED], 2012a). SS-18 is listed in Table A (Appendix 4-A) of the HAFB permit, which requires the site to be investigated and undergo corrective action if warranted.

The SS-18 ACM field work was conducted in accordance with the *Final Accelerated Corrective Measures Work Plan Multiple Sites, Holloman Air Force Base, New Mexico* (Bhate, 2007). The Final ACM Multiple Sites Work Plan (Bhate, 2007) was revised to include deficiencies outlined by the NMED in correspondence dated March 30, 2007, and was approved by the NMED on April 24, 2007 (see Attachment A of this report). In addition, the 2009 and 2012 follow-on ACM investigations were conducted in accordance with the *Final Accelerated Corrective Measures Work Plan Addendum Site SS-18 VOC Source Area Delineation, Holloman Air Force Base, New Mexico* (NationView, 2009) and the *Final Supplemental Accelerated Corrective Measures Work Plan Site SS-18 (AOC-H) Holloman Air Force Base, New Mexico* (NationView, 2012).

The Site SS-18 2007 ACM and 2009 ACM Addendum Investigations identified four chlorinated volatile organic compounds (CVOCs) in groundwater at concentrations above regulatory action levels. The *Final Release Assessment Report Site SS-18 Holloman Air Force Base, New Mexico* (NationView, 2011) summarizes the results from the 2007 ACM and 2009 ACM Addendum Investigations. Furthermore, during the 2009 ACM Addendum Investigation it was determined that the SS-18 trichloroethylene (TCE) groundwater plume had migrated downgradient and impacted four of the monitoring wells at the Old Aerospace Ground Equipment (AGE) Refueling Station Site (OT-45). Site OT-45 is located approximately 850 feet downgradient from SS-18 and is listed in

HAFB Hazardous Waste Facility Permit as AOC-O. A comprehensive description of Site OT-45 including site background, previous investigations and two petroleum contaminated soil remedial actions are presented in the NMED approved *Final Accelerated Corrective Measures Completion Report Sites OT-03 and OT-45 Holloman Air Force Base, New Mexico* (Bhate, 2008). Furthermore the NMED issued a Certificate of Completion for Corrective Action Complete Without Controls for AOC-O (OT-45) on August 13, 2012 (Attachment A).

1.1 Project Objectives

The following narrative presents a summary of the project objectives as they evolved during the three phases of the SS-18 ACM which were conducted in 2007, 2009, and 2012.

The objectives of the 2007 SS-18 ACM Investigation was to fill data gaps to determine the existence of a chromium source area and if groundwater quality downgradient of the chromic acid spill (south side of Building 281) had been impacted. If a source area was identified, the primary objective of the initial ACM was to remove, through excavation, and properly dispose of the chromium contaminated soil. Although the soil analytical results from the 2007 ACM investigation did not contain any analyzed constituents above regulatory action levels (NMED or U.S. Environmental Protection Agency [USEPA]) a plume of 1-1-dichloroethene (1,1-DCE) was detected above the current USEPA Maximum Contaminant Level (MCL) (USEPA, 2009) of 7 micrograms per liter (µg/L) in 5 of the 7 monitoring wells sampled during this investigation.

The 2009 SS-18 ACM Addendum Investigation objectives were to define the nature and extent of volatile organic compounds (VOC) detected in groundwater during the SS-18 2007 ACM Investigation and if identified remove via excavation the source of VOC contaminated soil. The 2009 ACM Addendum Investigation identified four VOCs (1,1-dichloroethane [1,1-DCA], 1,1-DCE, tetrachloroethylene [PCE], and TCE) above their applicable action levels (NMED and USEPA) in 9 of the 21 SS-18 monitoring wells. In addition, no VOC soil source area (that could have impacted the groundwater quality at SS-18) was identified during this investigation.

As a result of the extent of the VOC groundwater contamination delineated during the 2009 SS-18 ACM Addendum Investigation, the objectives of the 2012 Supplemental ACM (SACM) were to further delineate the boundaries of the VOC groundwater contamination (above action levels), locate a potential residual VOC source area in the vicinity of Buildings 281 and 279 and remove via excavation the source of VOC contaminated soil (if located during the SACM Investigation). Upon completing the SACM Investigation, the primary objective of the SS-18 SACM is to perform a risk assessment to determine if there is an acceptable level of risk from complete exposure pathways to human receptors (current and future) at the site. If the risk is acceptable, HAFB will request a No Further Action (NFA) Status under NFA Criterion 5 (Appendix 4-B [NMED, 2004]) and obtain a Class III permit modification to remove SS-18 (AOC-H)

from Table A of the HAFB Hazardous Waste Facility Permit No. NM6572124422. NFA Criterion 5 states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

1.2 Report Organization

This ACM Completion Report is organized into the following ten sections:

- Section 1 – Introduction
- Section 2 – Site Background and Regulatory Requirements
- Section 3 – Environmental Setting
- Section 4 – Summary of Previous SS-18 Investigations (1982 – 2009)
- Section 5 – Field Activities Supplemental ACM (2012)
- Section 6 – Laboratory Analysis and Data Validation Summary Supplemental ACM (2012)
- Section 7 – Nature and Extent of Contamination Supplemental ACM (2012)
- Section 8 – Risk Based Evaluation
- Section 9 – Conclusions and Recommendations
- Section 10 – References

The tables and figures referenced throughout this report are included in the following attachments and appendices (located after Section 10):

- Attachment A – NMED Correspondence
- Attachment B – *SS-18 CSIA Study, Holloman Air Force Base, NM* (Microseeps, 2013)
- Appendix A – Historical Data from Previous Investigations
- Appendix B – Supplemental ACM Soil Boring Logs
- Appendix C – Supplemental ACM Monitoring Well Construction Diagrams
- Appendix D – Supplemental ACM Monitoring Well Development Forms
- Appendix E – Supplemental ACM Monitoring Well Sample Collection Forms
- Appendix F – Supplemental ACM Analytical Data Packages (Provided on Enclosed CD)
- Appendix G – Supplemental ACM Data Validation Reports

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2 SITE BACKGROUND AND REGULATORY REQUIREMENTS

2.1 HAFB Facility Description and Operational History

HAFB is located in south central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Figure 2-1). HAFB has a population of 6,000, and supports approximately 21,000 active-duty Air Force, National Guard, Air Force Reserve, retirees, civilians, and their family members. HAFB occupies approximately 60,000 acres in the northeast quarter of Section 1, Township 17 South, Range 8 East. The White Sands Missile Range testing facilities occupy additional land extending northward from the Base. Private and public owned lands border the remainder of HAFB. The major highway servicing HAFB is Highway 70, which runs southwest from the town of Alamogordo and separates HAFB from publicly owned lands to the south. Alamogordo is located approximately 7 miles east of the base and has a population of approximately 35,000.

HAFB was first established in 1942 as Alamogordo Army Air Field (AAF). From 1942 through 1945, Alamogordo AAF served as the training ground for over 20 different flight groups, flying primarily B-17s, B-24s, and B-29s. After World War II, most operations had ceased at the Base. In 1947, Air Material Command announced the air field would be its primary site for the testing and development of un-manned aircraft, guided missiles, and other research programs. On January 13, 1948, the Alamogordo installation was renamed Holloman Air Force Base, in honor of the late Col. George V. Holloman; a pioneer in guided missile research. In 1968, the 49th Tactical Fighter Wing arrived at HAFB and has remained since, conducting fighter aircraft training and operations. HAFB has also served as the German Air Force's Tactical Training Center since 1996.

2.2 SS-18 Site Description and Background

The Chromic Acid Spill Area (SS-18) is located within the eastern portion of the main base industrial area at HAFB (Figure 2-2). Specifically the site is located along the south side of Building 281 (Figure 2-3). The 479th Component Repair Squadron (CRS) maintained a chrome plating shop in Building 281 until the late 1970s. When the operation was discontinued, the full chromic acid vats were temporarily stored along the south wall inside Building 281. It was estimated that 500 gallons of chromic acid were spilled on the ground in this storage area with some of the acid reaching the surface drainage ditch just west of the storage area. The spill site occupies an area of approximately 30 feet (ft) by 75 ft (Figure 2-3). In 1982, 10 yellow stained surface soil samples were collected and composited for hexavalent chromium extraction procedure (EP) toxicity analysis (CH2M Hill, 1983). The extraction result for hexavalent chromium found in the composite sample was equivalent to 0.600 milligrams per liter (mg/L), and

was well below the USEPA toxicity characteristic standard for chromium (5 mg/L) (CH2M Hill, 1983).

2.3 Regulatory Requirements and Applicable Screening Criteria

On February 24, 2004, the NMED issued the *Holloman Air Force Base Hazardous Waste Facility Permit No. NM6572124422* (NMED, 2004). The regulatory requirements for this project as specified in the HAFB permit include the following:

- Permit Part 4, *Corrective Action*, Section L, *Voluntary Corrective Measures*
- Permit Part 4, Appendix 4-A, Table A Solid Waste Management Units (SWMUs) and AOCs Requiring Corrective Action (NMED, 2012a)
- Permit Part 4, Appendix 4-B, Section III, Determination of No Further Action
- Permit Part 4, Appendix 4-F, *Action Levels and Cleanup Levels*

Soil and groundwater analytical data obtained from the 2007 ACM, 2009 ACM Addendum and the most recent 2012 SACM investigations conducted at Site SS-18 is evaluated against the applicable regulatory action levels and cleanup levels which are presented in Appendix 4-F of the HAFB Hazardous Waste Permit (NMED, 2004). The soil and groundwater data collected from these investigations will consist of a direct comparison to the applicable action levels. The concentrations of each contaminant detected above the method detection limit (MDL) will be used for comparison. The applicable action levels are presented in the analytical data summary tables for the analytes and media of concern for each investigation. The following sections present the regulatory criteria used to evaluate soil and groundwater samples collected at Site SS-18.

2.3.1 Soil Screening Criteria

2.3.1.1 VOCs, SVOCs, PCBs, and TAL Metals

The risk based action levels for unrestricted land use provided in Appendix A, Table A-1 (NMED Soil Screening Levels [SSLs]), *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b) will be used as the primary action levels for VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and target analyte list (TAL) metals. As per the HAFB Permit, Appendix 4-F V.1 (NMED, 2004) if a NMED soil cleanup level has not been established for a particular chemical of potential concern (COPC) (e.g. 2-methylnaphthalene) that constituent will be compared to the USEPA Region 6 Human Health Medium Specific Screening Level (HHMSSL). However, under an Interagency Agreement as an update of the USEPA Region 3 Risk-Based Concentration (RBC) Table, Region 6 HHMSSL Table, and the Region 9 Preliminary Remediation Goal (PRG) Table; the Region 6 HHMSSLs have been combined into the Regional Screening Level (RSL) Summary Table (USEPA, 2012). Additionally, all detected TAL metals will be compared to their respective NMED approved background levels (NMED, 2011).

2.3.1.2 Total Petroleum Hydrocarbons

The action levels for total petroleum hydrocarbons (TPH) are established in Table 6-3 (TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater) of NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b). Since it is unknown what type of petroleum contamination is present, the TPH screening guideline (residential direct exposure) for an unknown oil (1,000 milligrams per kilogram [mg/kg]) (Table 6-3, NMED, 2012b) will be used as the action level for comparing detected concentrations of TPHs (combined gasoline range organics [GRO], diesel range organics [DRO], and oil range organics [ORO]).

2.3.2 Groundwater Screening Criteria

2.3.2.1 VOCs, SVOCs, PCBs, and TAL Metals

As per Appendix 4-F (NMED, 2004), there are two applicable action levels for VOCs, SVOCs, PCBs, and TAL metal contaminants detected in groundwater, the New Mexico Water Quality Control Commission (NMWQCC) groundwater cleanup levels for contaminants (New Mexico Administrative Code [NMAC] 20.6.2.3103) and the USEPA's *National Primary Drinking Water Regulations* (USEPA, 2009) MCLs. If both the NMWQCC groundwater standard and a USEPA MCL have been established for an individual constituent, the lower of the two values will be used as the action level for clean up. Additionally, all detected TAL metals will be compared their respective NMED approved HAFB Background Levels (NMED, 2011).

2.3.2.2 Total Petroleum Hydrocarbons

The action levels for TPH are established in Table 6-3 (TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater) of NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b). The NMED TPH screening guideline for an unknown oil (50 mg/L) will be the action level that will be compared to the TPH concentrations (GRO, DRO, and ORO) detected in groundwater.

2.3.2.3 Total Dissolved Solids

There are also two applicable standards for total dissolved solids (TDS), the NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103) and the USEPA's *National Primary Drinking Water Regulations* Secondary MCLs (USEPA, 2009). The lower of the two standards (500 mg/L) will be used as the action level for TDS.

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3 ENVIRONMENTAL SETTING

The following subsections present the environmental setting. This information was obtained primarily from the *Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites* (Radian, 1992), unless cited otherwise.

3.1 Physiography and Topography

HAFB is located within the Sacramento Mountains Physiographic Province on the western edge of the Sacramento Mountains. HAFB is approximately 60,000 acres in area, and is located at a mean elevation of 4,093 feet above mean sea level (amsl). The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. The Base is located within the Tularosa Basin, which is part of a 170 mile long structural depression. The boarding mountains rise abruptly to altitudes of 7,000 to 12,000 feet amsl. The San Andres Mountains bound the basin to the west (about 30 miles) with the Sacramento Mountains approximately 10 miles to the east. At its widest point, the basin is about 60 miles east to west and stretches approximately 150 miles north to south (Figure 2-1).

The Tularosa Basin is a closed basin that contains all of the surface flow within its boundaries. Surface runoff from the surrounding mountains has deposited alluvial fans on the interior of the plain. Around the Base, the ground surface is undulating comprised of alluvial fan deposits, eolian dunes, and flat bottomed playas (pan shaped depressions carved by wind erosion). To the west of the Base lie the gypsum sand dune fields of the White Sands National Monument. A topographic map of the base is provided as Figure 3-1.

Site SS-18 is located in the eastern portion of the industrialized main base area north of Delaware Avenue (Figure 3-1). The local ground surface is relatively flat and as shown in Figure 2-3 entirely paved with asphalt in the vicinity of SS-18 (Building 281).

3.2 Surface Water and Hydrology

Within the boundaries of the Base, surface water runoff is controlled by several arroyos that trend to the southwest (Figure 3-2). Because of the high net evaporation of rainfall, there are no natural perennial streams within the boundary of Holloman AFB. Intermittent streams and arroyos in the basin lowlands are important only during infrequent periods of heavy rainfall. The Tularosa Basin contains all of the surface flow within its boundaries. The nearest inflow of surface waters to the Base comes from the Lost River, located in the north-central region of the Base. The Lost River Drainage Basin is the main drainage area within the boundaries of HAFB (Figure 3-2). Surface water is not present at Site SS-18. Due to the flat topography and asphalt pavement the local drainage is generally radial during rainfall events, however some rainwater will

drain toward the storm sewer culvert which is located 30 feet south of Building 281.

HAFB is dissected by several other southwest trending arroyos that control the surface drainage. Hay Draw arroyo is located in the far north. Malone and Rita's Draw, which drain into the Lost River and Dillard Draw arroyos are located along the eastern perimeter of the Base (Figure 3-2). Approximately 10,000 years ago, indications are of a much wetter climate. The present day Lake Otero encompassed a much larger area, possibly upwards of several hundred square miles. Its remains are the Alkali Flat and Lake Lucero. Lake Lucero is a temporary feature of merely a few inches in depth during the rainy season.

Potable water is available from municipal wells along the margins of the basin with more saline water towards the center. The principal sources of potable water are located in a long narrow north-south trending area on the upslope sides of Tularosa and Alamogordo and in the far southern part of the basin. HAFB is also supplied potable water from Lake Bonito, which is in the Pecos River Basin.

The hydrology of the southern portion of the Base (south of the wastewater treatment plant) is dominated by several manmade features that form a connected hydrologic system. The principal components of this system are: the stormwater drainage canal, Lagoon G, Lake Holloman, and Lake Stinky. In addition, there are both natural and constructed wetlands in this area, some of which are related to and dependent on the manmade surface water features.

HAFB currently generates under 1 million gallons per day (MGD) of wastewater. This effluent is eventually discharged to a holding tank for irrigating the HAFB Golf Course; the excess effluent is routed to Lagoon G and diverted to Lake Holloman located north of Highway 70. A berm surrounding this lagoon prevents stormwater from flowing into the lagoon. The stormwater drainage canal starts at a point north of Lagoon G, and then extends southwest of the lagoon into Lake Holloman. The canal is about 2 feet wide and 1 mile long with an elevation change of about 5 feet between Lagoon G and Lake Holloman. The canal also receives effluent from Lagoon G.

Lake Holloman was created in 1965 to receive excess flow from the previous sewage treatment lagoon system. It was formed by the construction of a non-engineered earthen dam midway along an existing ephemeral lake (playa) that normally received runoff from HAFB. Lake Holloman receives water from the stormwater drainage canal, Lagoon G, and effluent from the wastewater treatment plant (WWTP). The amount of effluent going to Lake Holloman can be adjusted depending on the water requirements of Lagoon G and the constructed wetlands. The lake is in a state of dynamic equilibrium, rising and falling with seasonal and annual variations in runoff, local shallow groundwater, and treated effluent from the WWTP.

Lake Stinky encompasses as much as 35 acres of playa below Lake Holloman. This area represents a remnant of the original playa grassland present in the project area

prior to the construction of the lagoon system for the original wastewater treatment system in 1948. Persistent seepage from Lake Holloman is sufficient to maintain a limited surface water expression in Lake Stinky, as well as a substantial growth of wetland vegetation (tamarisk and saltgrass) at the base of the dam separating Lake Stinky and Lake Holloman. During most years, total annual discharge to Lake Holloman is sufficient to result in overflow to Lake Stinky. On these occasions, Lake Stinky extends south from the dam through culverts underneath U.S. Highway 70/82 to encompass as much as 61 acres.

There are approximately 119 acres of jurisdictional wetlands on the main base (United States Air Force, 1996), the majority of which are located south of the WWTP near Lagoon G and Lake Holloman (79 acres). Some of these areas are fed partly by seepage from artificial impoundments (e.g., north end of Lake Stinky; west and south of Lagoon G). Others may have an independent existence, or be only slightly affected by the impoundments. These latter areas seem to be remnants of the wetlands that existed before the construction of the present system. Many of the wetlands located south of the WWTP are important foraging areas for resident and migrating birds and/or bats.

3.3 Regional Geology

The Tularosa Basin is the easternmost extension of the Basin and Range Province of the western United States. The Basin and Range was created by Cenozoic extensional (normal) faulting of Precambrian- through Tertiary-age sedimentary and igneous rocks. The basin is a graben, or downthrown block, bounded by the upthrown fault blocks of the San Andres and Sacramento Mountains.

During the Permian period of the Paleozoic era (approximately 270 million years ago), southern New Mexico was covered by a shallow sea. Limestone and sandstone were deposited, forming thick sedimentary units. Toward the end of the Mesozoic era (approximately 70 million years ago), the major mountain building activities that formed the Rocky Mountains took place. During these events, southern New Mexico emerged from the ocean as the earth's crust upwarped gently in this region. During the Cenozoic era (beginning approximately 70 million years ago), basin and range formation was initiated in what is now the southwestern United States. Approximately 10 million years ago, Cenozoic faulting formed the graben structure known as the Tularosa Basin. During this process, arched portions of rock collapsed between large-scale, north-south trending faults. The Tularosa Basin is a central downthrown area, bounded on the east and west by fault block mountains. Bedded Permian strata can be seen along the faces of the Sacramento and San Andres Mountains. Permian limestones also occur west of HAFB in a low bedrock outcrop near Hurtz Spring. In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e. Tularosa Basin). Water carrying eroded limestone, dolomite, gravel, and other matter continue to flow into the basin. A generalized cross-section of the Tularosa Basin is shown in Figure 3-3.

As the Tularosa Basin is a bolson, which is a basin with no surface drainage outlet, sediments carried by surface water into a closed basin are bolson deposits. The overlying alluvium generally consists of unconsolidated gravels, sands, and clays. The bolson sediments within the Tularosa Basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite, and gypsum. Coarser material is deposited at the base of the mountains while finer material is carrier to the basin's interior. The bolson fill deposits thin out from Alamogordo to less than 100 feet near Hurtz Spring. Bolson fill deposits are 8,000 feet thick or more in the central portion of the Tularosa Basin.

Near-surface geologic conditions at HAFB have been established during this and numerous other ERP investigations. The near-surface bolsom deposits at HAFB consist of sediments that are alluvial, eolian, and lacustrine in origin. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable because the wind simultaneously reworks alluvial fan sediments and deposits gypsum sands resulting in an intermingling of the two sediment types. The playa, or lacustrine deposits, consist of medium to high plastic clay containing gypsum crystals and are contiguous with the alluvial fan and eolian deposits throughout HAFB. There has been the identification of stiff caliche layers, varying in thickness, at different areas of the Base. A generalized near surface cross-section for HAFB is shown in Figure 3-4.

3.4 Soils

The United States Department of Agriculture (USDA) Soil Conservation Service has identified two soil associations in the vicinity of HAFB; the Holloman-Gypsum Land-Yesum complex, and the Mead silty clay loam. The permeability of these horizons ranges from $4x10^{-4}$ to 1 $x10^{-3}$ centimeters per second. The distribution of soils in the vicinity of HAFB is depicted on Figure 3-5 (USDA, 1981).

The Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes soil consists of large areas of shallow and deep, well drained soils and areas of exposed gypsum. The Holloman soil makes up about 35 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 13 inches of the substratum is pink very fine sandy loam that is very high in gypsum. Below that, the substratum is white gypsum to a depth of more than 60 inches. This soil is calcareous and mildly alkaline to moderately alkaline throughout. Permeability is moderate, and available water capacity is very low.

Gypsum land makes up about 30 percent of the Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes. Typically, less than 1 inch of very fine sandy loam overlies soft to hard, white gypsum. The deep Yesum very fine sandy loam makes up about 20 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 9 inches of the substratum is light brown

fine sandy loam that is very high in gypsum. Below that, the substratum is pink very fine sandy loam to a depth of more than 60 inches. The soil is calcareous throughout and is mildly alkaline. Permeability is moderate, and available water capacity is moderate. Many fine gypsum crystals are found throughout the profile.

The soil type located across the main drainage area for the installation is Mead silty clay loam, 0 to 1 percent slopes. This deep, poorly drained, nearly level soil is on outer fringes of alluvial fans. This soil formed in fine textured alluvium over lacustrine lake sediment. It is very high in salt content because of periodic flooding and poor drainage. Slopes are smooth and concave. Typically, the surface layer is reddish brown silty clay loam and clay loam about 5 inches thick. The substratum, to a depth of 48 inches, is light reddish brown clay that has a high content of salts. Below that, the substratum is lacustrine material of variable texture and color to a depth of more than 60 inches. Included with this soil are areas of Holloman soils and Gypsum land along the margins of the unit of steep, short gully sides and knolls. These inclusions make up about 15 percent of the map unit for this soil type. Individual areas are generally smaller than 10 acres. This soil is moderately calcareous throughout and is moderately to strongly alkaline. It has a layer of salt that is more soluble than gypsum. Permeability is very slow, and available water capacity is low.

3.5 Regional Hydrogeology

The majority (over 70 %) of the ERP Sites, SWMUs, and AOCs located across HAFB have groundwater monitoring wells containing water with an average TDS concentration greater than 10,000 mg/L. This TDS data supports the hypothesis that TDS concentrations below 10,000 mg/L at HAFB are caused by dilution of natural groundwater from leaking water lines and surface irrigation from the domestic water supply. TDS concentrations greater than 10,000 mg/L exceed the NMWQCC limit as potable water (NMAC 20.6.2.3103) and thus, the groundwater beneath HAFB has been designated as unfit for human consumption. Likewise, USEPA guidelines (USEPA, 1986) have identified the groundwater as a Class IIIB water source, characterized by TDS concentrations exceeding 10,000 mg/L (therefore, the naturally occurring groundwater at HAFB is not regulated). Figure 3-6 shows the general groundwater flow direction at the Base. Groundwater quality in the Tularosa Basin is of potable quality at the recharge areas in close proximity to the Sacramento Mountains and becomes increasingly mineralized (high total dissolved solids) toward the central portion of the basin and discharge areas.

The preponderance of the groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream run-off along the western edge of the Sacramento Mountains. Surface water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area only leaves either through

evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath HAFB, the water table ranges from 5 to 50 ft below ground surface (bgs). Flow for the Base is generally towards the southwest with localized influences from the variations in the topography of the Base. The ground surface slopes at a slightly higher rate than the water table such that the depth to groundwater in the northern areas of the Base is comparably greater (25 to 40 ft bgs) than in the southern areas of the Base (less than 10 ft bgs). Near the arroyos, groundwater flows directly toward the surface drainage feature.

In addition, there are no potable water wells on HAFB. Potable water for the Base (Boles, Douglas and San Andres well fields) and the city of Alamogordo is derived from the foot of the nearby Sacramento Mountains, just south of Alamogordo. According to the groundwater well inventory (Table 3-1) prepared by the New Mexico Office of the State Engineer, there are approximately 25 domestic, 15 commercial, 7 irrigation, and 3 livestock wells located within a 4-mile radius of HAFB (New Mexico Water Rights Reporting System [NMWRRS] database, 2009). As shown on Figure 3-7 these wells are located along HAFB's northern and eastern boundaries (upgradient and cross gradient respectively).

3.6 Site Specific Geology and Hydrogeology

This section presents the site specific geology and hydrogeology for SS-18.

3.6.1 SS-18 Geology

Site specific geologic information was obtained from the compilation of lithologic data from the soil borings drilled during the ACM, ACM Addendum, and SACM Investigations conducted in 2007, 2009, and 2012, respectively. The subsurface profile underlying SS-18 consists primarily of interbedded silty sands containing varying degrees of moisture. From grade to approximately 4 ft bgs, soils are predominantly reddish brown, moist, silty sands. Saturated soils are generally encountered between 4 and 5 ft bgs in light reddish brown to pink, silty sand. A reddish brown, silty sand layer with fine grained gypsum crystal inclusions was present in most boreholes from approximately 8 to 13 ft bgs. A cemented silt/silty sand caliche layer was present throughout the majority of the site from approximately 13 to 15 ft bgs. The groundwater table occurs at approximately 5 to 8 ft bgs.

3.6.2 SS-18 Hydrogeology

To determine the groundwater flow direction, and horizontal hydraulic gradient, groundwater elevations were measured at 34 monitoring wells located throughout the SS-18 monitoring well network on August 29, 2012. Groundwater onsite occurs within a silty-sand in a shallow unconfined aquifer approximately 3.5 to 7.7 ft bgs. Static water elevations at Site SS-18 ranged from 4,073.617 ft amsl at SS18-MW24 to 4,063.875 ft amsl at SS18-MW30. Tables 3-2 and 3-3 present the August 2012 groundwater

elevation data and the SS-18 monitoring well network construction details, respectively.

A potentiometric surface map of SS-18 was developed using the data collected on August 29, 2012 (Figure 3-8). The SS-18 groundwater flow direction is generally toward the south-southwest and mimics the 2009 gradient. Additionally, the groundwater flow at SS-18 mimics the south-southwest basewide flow direction at HAFB. Table 3-2 and Figure 3-8 also include the groundwater elevation data that was collected from the downgradient monitoring well network associated with ERP Site OT-45 (Old AGE Refueling Station) on August 29, 2012. The OT-45 monitoring well network consists of five wells (S51-MW1, S51-MW3 through S51-MW5, and S51-MW7) which were installed in 1988 and 1989.

The horizontal hydraulic gradient was calculated along the groundwater flow lines within the SS-18 monitoring well network. The horizontal gradient for SS-18 is approximately 0.006 and was calculated using water levels obtained from monitoring wells SS18-MW24 (upgradient) and SS18-MW30 (downgradient). Although slug tests (slug test data is used to calculate hydraulic conductivity) were not performed during any of the ACM investigations, the hydraulic conductivity at adjacent ERP sites SD-08 and OT-14 is 3.48×10^{-3} feet/minute and 3.47×10^{-3} feet/minute, respectively (Radian, 1992). ERP Sites SD-08 and OT-14 are also located within the Main Base Area and have very similar geology and hydrogeology as SS-18. Therefore, based on the data from slug tests conducted at these sites the groundwater velocity at SS-18 is estimated to be approximately 19 feet/year.

3.7 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature range (Western Regional Climate Center [WRCC], 2003). The climate of the Central Closed Basins varies with elevation. The Base is found in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100 degrees Fahrenheit (°F) in the summer months and are in the middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid night time cooling resulting in average diurnal temperature ranges of 25 to 35°F. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation, usually less than 10 inches. The very low rainfall amounts resulting in the arid conditions, which with the topographically induced wind patterns combining with the sparse vegetation, tend to cause localized “dust devils”. The annual rainfall for Alamogordo is 12 inches per year[1]. Much of the precipitation falls during the mid-summer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating to 30 to 40% of the annual total rainfall.

[1] http://countrystudies.us/united-states/weather/new-mexico/

3.8 Current and Future Land Use

The land surrounding HAFB consists of residential areas to the east and northeast (City of Alamogordo), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. The desert terrain of the area immediately surrounding HAFB has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the Base. HAFB is an active military installation and is expected to remain active for the foreseeable future. No transfer of military property to the public is anticipated, and public access to the Base is restricted (Foster Wheeler, 2002). The area surrounding SS-18 is classified as industrial, containing aircraft hangars and numerous maintenance buildings.

Residential development on the Base is limited by environmental and operational constraints imposed by the 100-year floodplain, historic sites, and areas identified under the Installation Restoration Program. Safety and noise zones also limit residential development on HAFB. Future plans for residential development on the Base include renovation of existing structures, replacement of inefficient buildings, and expansion into open areas in the southeast corner of the Base (HAFB, 2000). Future land use is not expected to differ significantly from current land use practices (Foster Wheeler, 2002).

3.9 Current and Future Water Use

At present, the primary fresh water resource for the City of Alamogordo and HAFB is Lake Bonita, 60 miles northeast of the Tularosa Basin. Currently, there are no potable supplies of groundwater or surface water located on the Base. HAFB obtains its water supply from the City of Alamogordo and the HAFB wells in the Boles, San Andres, and Douglas well fields at the base of the Sacramento Mountains. No water supply wells are located on or near the Base because of poor groundwater quality (TDS greater than 10,000 mg/L).

4 SUMMARY OF PREVIOUS SS-18 INVESTIGATIONS (1982 – 2009)

This section presents an overview of the previous historical investigations (1982 – 1985), and a detailed summary of the SS-18 ACM (conducted by Bhate in 2007), and the more recent SS-18 ACM Addendum (conducted by NationView in 2009) investigations. Since 1982, Site SS-18 has been the subject of a series of environmental investigations related to evaluating the soil and groundwater conditions. The 2009 ACM Addendum Investigation determined that the SS-18 VOC groundwater contamination has migrated downgradient and impacted some of the monitoring wells present at Site OT-45 (Figure 2-2). The VOC groundwater contamination appears to be originating from the same unknown source area, which is suspected to be located in the vicinity of Buildings 281 and 279 (Figure 2-3).

The initial investigations conducted at SS-18 were the Installation Restoration Program (IRP) Records Search (CH2M Hill, 1983) and the IRP Phase II – Stage 1 investigation (Dames & Moore, 1987). The Records Search concluded that Site SS-18 did not present a significant concern for adverse effects on human health or the environment. Based on the site description and background provided in the IRP Records Search (see Appendix A-1 of this report), the SS-18 Phase II – Stage 1 investigation was conducted on the wrong side of Building 281. The Records Search and recent interviews conducted with Building 281 personnel indicate that the chromic acid vat storage area (spill source area) was located in the southeast corner of Building 281 (Figure 2-3) and not in the southwest corner of the building where the Phase II investigation was conducted. The following information was obtained from the IRP Phase II – Confirmation/ Quantification Stage 1 report (Dames & Moore, 1987). The scope of work for the Phase II investigation included the following field activities:

- One soil boring (18B1) and one monitoring well (18W1) were installed adjacent to the northwest corner of Building 281 (see Figure 10 in Appendix A-2 of this report).
- Both boreholes were completed to a depth of 21.5 ft bgs. Six soil samples, three from each boring, were collected from the surface to 6.5 ft bgs and analyzed for total and hexavalent chromium (EP toxicity analysis).
- The monitoring well, 18W1, was installed at 21.5 ft bgs with a 10 foot screened interval. The groundwater sample was also analyzed for total and hexavalent chromium.

All six soil sample results were below the EP detection limits of 0.05 and 0.004 mg/L, respectively for total and hexavalent chromium. These detection limits are well below the Resource Conservation and Recovery Act (RCRA) toxicity characteristic standard of 5.0 mg/L (Table 1, 40 Code of Federal Regulations [CFR] § 261.24). Hexavalent

chromium was detected in the groundwater sample from monitoring well 18W1 with a concentration of 0.007 mg/L and total chromium was less than the detection limit of 0.1 mg/L. It is possible that total chromium could be above the NMWQCC standard of 0.05 mg/L (half the detection limit); while the hexavalent chromium detection is below the USEPA MCL (0.1 mg/L) and the NMWQCC standard. Misidentification of the source area would explain the lack of significant chromium detections. The analytical results and sample locations for the subsurface soil and groundwater samples collected during the Phase II investigation are included in Appendix A-2 of this report.

The following subsections summarize the SS-18 ACM and ACM Addendum Investigations conducted in 2007 and 2009 respectively. The soil and groundwater analytical data tables, figures, drilling logs, monitoring well construction diagrams, monitoring well development/sample collection forms and laboratory analytical data packages (and Data Validation Reports) for the SS-18 ACM and ACM Addendum Investigations were previously submitted in the NMED approved *Final Release Assessment Report SS-18 Holloman Air Force Base, New Mexico* (NationView, 2011). Selected data summary tables and figures from this report are provided in Appendix A-3. **Note:** A summary of the recent SS-18 Supplemental ACM conducted in 2012 is provided in Section 5 (Field Activities), Section 6 (Laboratory Analysis and Data Validation), and Section 7 (Nature and Extent of Contamination) of this report.

4.1 SS-18 ACM Investigation (2007)

The initial SS-18 ACM investigation was conducted by Bhate in June and October 2007. The objectives of the ACM investigation at SS-18 were to delineate a potential chromium contaminated soil source area (along the southeast side of Building 281) and to evaluate the groundwater conditions at the site. In order to accomplish these objectives the following field activities were performed at SS-18 during the 2007 ACM investigation:

- Three soil borings (SS18-DP01 through SS18-DP03) were drilled and sampled in June 2007 to delineate the potential chromium source area associated with a 500-gallon chromic acid spill along the southeastern side of Building 281 that occurred in the late 1970s.

- Three soil borings (SS18-DP04 through SS18-DP06) were drilled, sampled, and converted into three permanent monitoring wells (SS18-MW02 through SS18-MW04) using direct push technology (DPT) drilling techniques in June 2007 to determine and quantify groundwater quality at the site.

- Soil and groundwater samples were collected and analyzed for VOCs, SVOCs, TPH (soil only), TAL metals, hexavalent chromium (soil only), and TDS (groundwater only) in June/July 2007.

- Two geotechnical samples were collected in June 2007 from soil borings SS18-DP04 and SS18-DP06, to provide geotechnical data of non-impacted soils at the site.
- Four additional permanent monitoring wells (SS18-MW05 through SS18-MW08) were installed in October 2007 to determine if the source of 1,1-DCE (detected above the USEPA MCL in two of three previously installed wells) was from Building 281 or an unknown upgradient source.
- Groundwater samples collected from monitoring wells SS18-MW05 through SS18-MW08 in October 2007 were analyzed for VOCs and TDS.
- In October 2007 a round of groundwater elevation measurements was collected from monitoring wells SS18-MW02 through SS18-MW08 to develop a potentiometric surface map.

4.1.1 SS-18 Soil Analytical Results

The locations for the six soil borings (SS18-DP01 through SS18-DP06) which were advanced during the 2007 ACM investigation are depicted on Figure 4-1 in Appendix A-3. One soil sample was collected above the water table (capillary fringe) from each of the six soil borings. All VOCs, SVOCs, TPH fractions (GRO, DRO and ORO), TAL metals, and hexavalent chromium were detected at concentrations below applicable SSLs and RSLs. The analytical results for the seven soil samples collected for chemical analysis during the 2007 ACM are presented in Table 6-1 in Appendix A-3 and the geotechnical results for two samples collected during this investigation are shown in Table 6-2 in Appendix A-3 of this report.

4.1.2 SS-18 Groundwater Analytical Results

In June 2007, groundwater samples were collected from three monitoring wells (SS18-MW02 through MW04). Due to elevated concentrations of VOCs, SS18-MW04 was re-sampled in July 2007. Based on the VOC results of this sampling event, four additional monitoring wells (SS18-MW05 through SS18-MW08) were installed and sampled for VOCs and TDS in October 2007. Due to an obstruction in the well, a groundwater sample was not collected from monitoring well 18W1 (installed during the 1984 Phase II investigation). Figure 4-1 in Appendix A-3 of this report presents the locations of all monitoring wells that were installed and sampled during the 2007 SS-18 ACM investigation. The analytical results for the eight groundwater samples (including one duplicate) collected during the 2007 ACM are presented in Table 6-3 in Appendix A-3 of this report.

During the June/July 2007 groundwater sampling event, 1,1-DCE was detected in monitoring wells SS18-MW02 (12 µg/L) and SS18-MW04 (18 and 40 µg/L) above the current USEPA MCL (7 µg/L) and the NMWQCC standard (5 µg/L). 1,1-DCE was not detected in monitoring well SS18-MW03. In order to determine the extent of the 1,1-DCE groundwater contamination, four additional wells (three upgradient [SS18-MW05

through MW07] and one downgradient [SS18-MW08]) were installed and sampled for VOCs in October 2007 (see Figure 4-1 in Appendix A-3). Note: subsurface soil samples were not collected from the soil borings which were advanced for these four monitoring wells. 1,1-DCE was detected above the USEPA MCL and the NMWQCC standard in two upgradient wells; SS18-MW05 (16 µg/L) and -MW07 (13 µg/L) and the new downgradient well SS18-MW08 (120 µg/L). Figure 6-1 in Appendix A-3 presents a 1,1-DCE isocontour map showing the distribution of 1,1-DCE concentrations detected in groundwater from the two SS-18 groundwater sampling events conducted in 2007.

In summary, seven VOCs (chloroform; 1,1-DCA; 1,2-dichloroethane; 1,1-DCE; 1,1,1-trichloroethane [1,1,1-TCA]; sec-butylbenzene; and 4-isopropyltoluene) were detected above the reporting limit during the June/July and October 2007 sampling events. The most frequently detected VOCs were chloroform (5 wells); 1,1-DCA (5 wells); and 1,1-DCE (5 wells). However, 1,1-DCE was the only VOC that was detected above the USEPA MCL (7 µg/L) and the NMWQCC standard (5 µg/L). In addition, all SVOCs were detected below their applicable screening criteria.

Arsenic and manganese were the only two metals detected above their applicable USEPA MCLs and/or NMWQCC groundwater standards. Arsenic was detected above the USEPA MCL (10 µg/L) in monitoring well SS18-MW03 and its duplicate sample with concentrations of 17 and 18 µg/L respectively. Manganese was detected in the groundwater samples collected from SS18-MW02 (650 µg/L), SS18-MW03 and its duplicate sample (97 and 92 µg/L), and in the SS18-MW04 samples collected in June and July 2007 (870 and 450 µg/L) above the NMWQCC groundwater water standard for a domestic water supply (200 µg/L) and the secondary USEPA MCL (50 µg/L).

TDS concentrations in all the groundwater samples ranged from 2,900 mg/L (SS18-MW05) to 22,000 JQ (estimated detection with an elevated reporting limit) mg/L (SS18-MW08) and exceeded the NMWQCC groundwater standard of 1,000 mg/L and the USEPA Secondary MCL (500 mg/L). TDS concentrations less than 10,000 mg/L in several of the monitoring wells (SS18-MW02, and –MW04 through –MW07) is most likely due to leaking underground water lines that traverse the site in the vicinity of these wells. Figure 6-2 in Appendix A-3 of this report presents all of the organic and inorganic constituents that were detected above their respective USEPA MCLs and/or the NMWQCC standards during the 2007 groundwater sampling event.

4.2 SS-18 ACM Addendum Investigation (2009)

The SS-18 ACM Addendum Investigation was conducted by NationView from August through October 2009. The primary objectives of the SS-18 ACM Addendum were to define the nature and extent of VOCs detected in groundwater at SS-18 during the 2007 ACM Investigation and to determine the location(s) of potential VOC soil source areas at and upgradient of Site SS-18. Although a chromium source area was not identified during the previous SS-18 ACM Investigation, the VOC 1,1-DCE was detected above the USEPA MCL (7 µg/L) and the NMWQCC screening levels (5 µg/L) in five of the seven SS-18 monitoring wells sampled during the 2007 ACM investigation. Three of

these wells (SS18-MW02, SS18-MW05, and SS18-MW07) are located upgradient of the SS-18 chromic acid spill area (shown on Figure 6-2 in Appendix A-3 of this report). Based on upgradient concentrations ranging from 13 µg/L to 16 µg/L (SS18-MW07 and SS18-MW05 respectively), the 1,1-DCE plume appeared to originate upgradient of SS-18 in the vicinity of Building 282 and 283 and it does not appear to be associated with the chromic acid spill that occurred at Building 281 in the 1970s.

Based on their upgradient proximity to SS-18, SWMUs 9, 10, and 85 were re-investigated as potential source areas for the VOC (1,1-DCE) contamination that has impacted the groundwater quality at SS-18 (see Figure 4-2 in Appendix A-3 of this report). SWMUs 9 (Building 282 Oil/Water Separator [OWS]), 10 (Building 283 OWS), and 85 (Building 283 Washrack) are located approximately 300 feet upgradient of SS-18 and are listed on Table B (no further corrective action required) of the HAFB Hazardous Waste Facility Permit (NMED, 2012a). The secondary objective of the SS-18 ACM Addendum Investigation was to characterize the subsurface soil to determine if a VOC source area(s) is associated with SWMU 9, 10, and/or 85.

In order to accomplish the objectives of the SS-18 ACM Addendum, the following field activities were performed by NationView from August through October 2009:

- Seventeen DPT soil borings (SS18-DP07 through SS18-DP23) were advanced to a maximum depth of 15 ft bgs with continuous soil sampling and the collection of two soil samples per borehole for offsite chemical analysis in order to delineate the potential upgradient VOC source area locations.
- Soil samples were analyzed at an offsite laboratory for VOCs by USEPA method 8260B; SVOCs by USEPA Method 8270C; TPH (GRO, DRO, and ORO) by USEPA Method 8015/8015M; PCBs by USEPA Method 8082; and TAL metals by USEPA Method 6010B/7471A.
- Six of the DPT boreholes were converted into permanent monitoring wells (SS18-MW09 through SS18-MW13 and SS18-MW22). These wells were located in the vicinity of the potential upgradient source area(s).
- Eight additional permanent monitoring wells (SS18-MW14 through SS18-MW21) were installed to delineate the horizontal extent of downgradient VOC contamination. Soil samples for offsite analysis were not collected from the boreholes advanced for these wells.
- All new monitoring wells were developed to remove fine particulates and to improve hydraulic communication with the surrounding saturated material.
- One round of groundwater level measurements was collected from the 21 new and existing permanent monitoring wells at SS-18 (SS18-MW02 through SS18-MW22) and five wells at OT-45 (S51-MW1, S51-MW3 through S51-MW5, and S51-MW7). Previously installed monitoring well 18W1 was not sampled as access to the water table within this well is blocked.

- Groundwater samples were analyzed at an offsite laboratory for VOCs by USEPA Method 8260B; SVOCs by USEPA Method 8270C; TPH (GRO, DRO, and ORO) by USEPA Method 8015/8015M; PCBs by USEPA Method 8082; TAL metals by USEPA Method 6010B/7470A; and TDS by Method 2540C.
- Two undisturbed soil samples were collected from upgradient soil boring SS18-DP22 to establish geotechnical information for a site specific risk based evaluation.

4.2.1 SS-18 Soil Analytical Results

The locations for the 17 soil borings (SS18-DP07 through SS18-DP23) advanced during the 2009 ACM Addendum investigation are depicted on Figure 6-3 in Appendix A-3 of this report. With the exception of one detection of naphthalene, TPH-GRO, and TPH-DRO, all other VOCs, SVOCs, TPH-ORO, TAL metals, and PCBs were detected at concentrations below applicable SSLs and RSLs. The analytical results for 37 subsurface soil samples that were collected around the perimeter of the three SWMUs for chemical analysis during the 2009 ACM Addendum Investigation are presented in Table 6-4 in Appendix A-3 of this report.

The highest concentrations of VOCs were detected in sample SS18-DP15-6 collected at SWMU 10, where n-butylbenzene was reported at 6,060 micrograms per kilogram (µg/kg); sec-butylbenzene at 4,220 µg/kg; ethylbenzene at 7,740 µg/kg; isopropylbenzene at 3,230 µg/kg; p-isopropyltoluene at 5,020 µg/kg; naphthalene at 56,500 µg/kg; n-propylbenzene at 7,300 µg/kg; 1,2,4-trimethylbenzene at 27,600 µg/kg; 1,3,5-trimethylbenzene at 11,800 µg/kg; and m,p-xylene at 6,090 µg/kg. Naphthalene detected in soil sample SS18-DP15-6 at a concentration of 56,500 µg/kg (56.5 mg/kg) was the only VOC detected above its respective current SSL (43 mg/kg) (NMED, 2012b).

TPH fractions GRO ($C_6 – C_{10}$) and DRO ($C_{10} – C_{22}$), were detected in soil sample SS18-DP15-6 (SWMU 10) above the NMED TPH screening guideline for unknown oil (1,000 mg/kg [NMED 2012b, Table 6-3]) at concentrations of 1,210 mg/kg and 3,200 mg/kg respectively. Additionally, this was the only soil sample that had combined and/or singular concentrations of TPH fractions (GRO, DRO, and ORO) that were above the current NMED TPH screening guideline for unknown oil of 1,000 mg/kg (NMED 2012b, Table 6-3). Figure 6-3 in Appendix A-3 of this report presents the singular detections of naphthalene, TPH-GRO, and TPH-DRO which exceeded the NMED SSLs and the TPH screening guidelines.

Additionally, two geotechnical samples collected from an offset borehole at SS18-DP22 were analyzed for bulk density, fractional organic carbon, moisture content, and specific gravity. The geotechnical analytical results are presented in Table 6-5 in Appendix A-3 of this report.

4.2.2 SS-18 Groundwater Analytical Results

Groundwater samples were collected from 7 previously installed monitoring wells (SS18-MW02 through SS18-MW08) and the 14 new monitoring wells (SS18-MW09 through SS18-MW22) during the SS-18 ACM Addendum sampling event (August/October 2009). One well installed during the 1984 IRP Phase II investigation (18W1) was blocked and was not sampled during the ACM Addendum Investigation. The groundwater samples collected from the SS-18 monitoring well network were analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), PCBs, TAL metals, and TDS. The analytical results for this sampling event are presented in Table 6-6 in Appendix A-3 of this report and the SS-18 (including OT-45) monitoring well network is shown on Figure 6-4 in Appendix A-3. The following narrative provides a summary of the groundwater data which exceeded the applicable screening criteria (USEPA MCLs and/or the NMWQCC groundwater standards).

4.2.2.1 Volatile Organic Compound Results

Nine of the twenty-one SS-18 monitoring wells had one or more VOCs (1,1-DCA, 1,1-DCE, PCE, and TCE) detected above the applicable NMWQCC groundwater standards (NMAC 20.6.2.3103) and/or the USEPA MCLs (USEPA, 2009). 1,1-DCE was the most widely distributed VOC detected above a USEPA MCL and/or a NMWQCC groundwater standard. 1,1-DCE was detected in 8 wells above the NMWQCC groundwater standard (5 µg/L) with concentrations ranging from 5.6 µg/L (SS18-MW22) to 193 µg/L (SS18-MW08). PCE and TCE were detected in 3 wells (SS18-MW08, -MW18, and -MW19) above the USEPA MCL (5 µg/L for both PCE and TCE) with concentrations ranging from 12.9 to 48.8 µg/L (PCE) and 5.9 to 95.6 µg/L (TCE). Additionally, 1,1-DCA was detected in two monitoring wells above the NMWQCC Standard (25 µg/L) with concentrations of 37.5 µg/L (SS18-MW08) and 548 µg/L (SS18-MW19). Figure 6-4 in Appendix A-3 presents the VOC groundwater isoconcentration map which illustrates the approximate boundaries of the 1,1-DCA, 1,1-DCE, PCE, and TCE groundwater plumes with respect to each VOC specific action level. Based on the VOC isocontours, it appears that the primary source area for 1,1-DCA, 1,1-DCE, PCE, and TCE groundwater contamination originates in an area southwest of Building 281 and slightly northeast of Building 279. Furthermore it appears that the primary source of the 1,1-DCE groundwater contamination originates between Buildings 282 and 283.

Based on the distribution of 1,1-DCA, 1,1-DCE, PCE, and TCE detected within the SS-18 monitoring well network during the 2009 ACM Addendum Investigation, it became apparent that the groundwater plumes for these constituents had migrated downgradient and impacted the groundwater quality in the vicinity of the ERP Site OT-45 (Old AGE Refueling Station, Figures 2-2 and 2-3). Site OT-45 is located approximately 850 ft southwest and hydraulically downgradient of SS-18 (see Figure 3-8 in Appendix A-3 if this report). During the 2007 ACM investigation conducted at OT-45 (Bhate, 2008), six groundwater samples (including one duplicate) were collected from the OT-45 monitoring well network (S51-MW1, S51-MW3 through S51-MW5, and

S51-MW7). The OT-45 groundwater samples were analyzed for VOCs, SVOCs, and TDS. The groundwater analytical results from the 2007 OT-45 ACM Investigation are presented in Table 6-7 in Appendix A-3 of this report. The OT-45 monitoring well locations are shown on Figure 6-4 in Appendix A-3.

In summary, 16 VOCs were detected above the MDL in the 6 groundwater samples collected at OT-45 (see Table 6-7 in Appendix A-3 of this report). Based on the type of soil contamination detected in the upgradient soil boring SS18-DP15-6 (in the vicinity of upgradient SWMUs 10 and 85) it appears that the upgradient soil contamination (TPH and naphthalene [aliphatic hydrocarbons]) is primarily related to petroleum hydrocarbons from the previously removed oil water separators. Groundwater beneath and downgradient of SS-18 has been impacted with chlorinated solvents (ethenes and ethanes), which appears to be originating in an area southwest of Building 281 and slightly northeast of Building 279 (see Figure 6-4 in Appendix A-3 of this report). TCE was the only VOC detected above its respective USEPA MCL and/or the NMWQCC groundwater standard. TCE (6.5 µg/L) was detected in the upgradient OT-45 monitoring well S51-MW3, at a concentration which is slightly above the USEPA MCL (5 µg/L). This data suggests that the source of the OT-45 TCE groundwater contamination is located upgradient and that it is not related to the former Old AGE fueling station leak (OT-45). Furthermore, concentrations of 1,1-DCE (2.8 µg/L), 1,1-DCA (2.5 µg/L), and PCE (0.59 J µg/L) that were detected in the S51-MW3 groundwater sample were each below their respective USEPA MCL and NMWQCC groundwater standard. Figure 6-4 in Appendix A-3 illustrates the location of OT-45 monitoring wells in relationship to SS-18 and presents the 2007 1,1-DCA, 1,1-DCE, PCE, and TCE concentrations for the OT-45 monitoring wells.

Based on the configuration of the TCE plume, it appears that the source of the VOC contaminants detected in monitoring well S51-MW3 are also located upgradient in the vicinity of Buildings 279 and 281. Additionally, low levels (below USEPA MCLs and NMWQCC groundwater standards) of 1,1-DCA, 1,1-DCE, PCE, and TCE were detected in OT45 monitoring wells S51-MW1, S51-MW4, and S51-MW7. Based on the 2007 OT-45 VOC groundwater data, the leading edges of the SS-18 VOC groundwater plumes (1,1-DCA, 1,1-DCE, PCE, and TCE) with respect to applicable USEPA MCL and NMWQCC groundwater standards have been delineated. A detailed summary of the 2007 OT-45 groundwater sampling event is presented in the *Final Accelerated Corrective Measures Completion Report Sites OT-03 and OT-45, Holloman Air Force Base, New Mexico* (Bhate, 2008).

4.2.2.2 Semi-Volatile Organic Compound Results

Low estimated concentrations of three SVOCs (butyl benzyl phthalate, dibenzofuran, and di-n-butyl phthalate) were detected in groundwater samples collected from monitoring wells SS18-MW04, SS18-MW07, and SS18-MW20. Currently there are no NMWQCC standards or USEPA MCLs for these compounds. All other SVOCs were not detected in the groundwater samples collected during the 2009 SS-18 ACM Addendum Investigation.

4.2.2.3 Total Petroleum Hydrocarbon Results

Individual and combined TPH fractions GRO (C_6 – C_{10}), DRO (C_{10} – C_{22}), and ORO (C_{22} – C_{36}) were detected at concentrations which were well below the NMED TPH screening guideline for and unknown oil of 50.0 mg/L (Table 6-3, NMED, 2012b).

4.2.2.4 Polychlorinated Biphenyls

PCBs were not detected in any of the groundwater samples that were collected during the 2009 SS-18 ACM Addendum Investigation.

4.2.2.5 TAL Metals Results

Six TAL metals (aluminum, arsenic, antimony, iron, manganese, and thallium) were detected above their respective USEPA MCLs, USEPA Secondary MCLs, and/or NMWQCC groundwater standards (see Table 6-6 in Appendix A-3 of this report). In addition, Figure 6-5 in Appendix A-3 presents the distribution of TAL metals detected in groundwater which exceeded applicable USEPA MCLs, USEPA Secondary MCLs, and/or NMWQCC groundwater standards at SS-18.

4.2.2.6 Total Dissolved Solids Results

TDS concentrations ranged from 2,850 mg/L (SS18-MW06) to 29,900 mg/L (SS18-MW08) and exceeded the NMWQCC groundwater standard of 1,000 mg/L and the USEPA Secondary MCL (500 mg/L) in all SS-18 monitoring wells (see Table 6-6 in Appendix A-3 of this report).

4.2.2.7 Nature and Extent of SS-18 Groundwater Contamination

Groundwater within the SS-18 monitoring well network has been impacted with VOCs that are chlorinated ethenes (1,1-DCE, PCE, and TCE) and ethanes (1,1-DCA). Therefore, the petroleum contaminated soil detected in soil sample SS18-DP15-6 which is located adjacent to upgradient SWMUs 10 and 85 (see Figure 6-3 in Appendix A-3 of this report) is not the source area for the downgradient chlorinated VOC groundwater contamination (see Figure 6-4 in Appendix A-3). Based on the chemical properties of 1,1-DCA, 1,1-DCE, PCE, and TCE, the impacted groundwater at SS-18 is not attributed to the petroleum hydrocarbon contamination (TPH and naphthalene [aliphatic hydrocarbons]) that was detected in the upgradient soil boring (SS18-DP15). Based on the 2007/2009 VOC groundwater data, the 1,1-DCA, 1,1-DCE, PCE, and TCE plumes appear to be migrating to the southwest toward ERP site OT-45 (see Figures 3-8 and 6-4 in Appendix A-3). By using the OT-45 VOC groundwater data which was collected during the 2007 ACM Investigation (Bhate 2008), the downgradient extent of the four VOC plumes was better defined (i.e., below current USEPA and/or NMWQCC groundwater screening criteria) through combination of the OT-45 and SS-18 monitoring well networks (see Figure 6-4, Appendix A-3).

Based on the aliphatic hydrocarbons (TPH-GRO, TPH-DRO, and naphthalene) detected above SSLs in soil sample SS18-DP15-6, it appears that the residual soil contamination in the vicinity of upgradient SWMUs 10 and 85 is related to petroleum hydrocarbons. It also appears that a secondary residual source for the 1,1-DCE plume is originating from the taxiway between Buildings 282 and 283. However, the ACM and ACM Addendum Investigations did not locate a VOC source area related to the SS-18 VOC groundwater contamination in this area.

5 FIELD ACTIVITIES SUPPLEMENTAL ACM (2012)

This section presents a summary of the SS-18 Supplemental ACM Investigation field activities performed by NationView in August/September 2012. Although the previous ACM investigations (conducted in 2007 and 2009) had significantly defined the nature and extent of chlorinated VOC groundwater contamination at SS-18, neither of these investigations identified a VOC soil source area. Therefore, the primary objective of the SACM investigation was to locate and characterize a potential residual VOC soil source area in the vicinity of Buildings 281 and 279. If identified (via additional subsurface soil sampling and analysis), the source area would be remediated through excavation and compliantly disposed offsite. The second objective was to install additional groundwater monitoring wells to further delineate the boundaries of CVOC contamination previously detected within the SS-18 (and OT-45) monitoring well network. The ultimate object of the SS-18 SACM is to achieve NFA approval for site closure from the NMED. The NFA status will be achieved via a site specific human health risk assessment which addresses the residual soil and groundwater contamination. The risk assessment is presented in Section 8 of this report.

In order to accomplish the objectives of the SS-18 SACM the following field activities were performed by NationView from August through September 2012:

- Fifteen DPT soil borings (SS18-DP24 through SS18-DP38) were advanced to 15 ft bgs with continuous sampling. One soil sample per borehole was collected from within the saturated zone (interval with the highest organic vapor reading) for chemical analysis. These boreholes were drilled in the vicinity of Buildings 281 and 279 to locate a potential VOC soil source area.

- Soil samples were analyzed at an offsite laboratory for VOCs by USEPA method 8260B, SVOCs by USEPA method 8270D, TPH (GRO, DRO, and ORO) by USEPA method 8015C, PCBs by USEPA Method 8082A, and TAL metals by USEPA method 6010C/7471B.

- Eight DPT soil borings (SS18-DP39 through SS18-DP46) were converted into permanent monitoring wells (SS18-MW23 through SS18-MW30) to further delineate the boundaries of the 1,1-DCA, 1,1-DCE, PCE, and TCE groundwater plumes. One soil sample also was collected from each monitoring well borehole from within the saturated zone (interval with the highest organic vapor reading) for chemical analysis. Each of these soil samples were also analyzed for VOCs, SVOCs, TPH, PCBs, and TAL metals.

- All eight new monitoring wells were developed to remove fine particulates and to improve hydraulic communication with the surrounding saturated material.

- One round of groundwater level measurements was collected from the 29 new and existing permanent monitoring wells at SS-18 (SS18-MW02 through SS18-MW30) and 5 wells at OT-45 (S51-MW1, S51-MW3 through S51-MW5, and S51-MW7). Monitoring well 18W1 (installed in 1984) was not sampled as access to the water table within this well is blocked.

- Collected one round of groundwater samples from the entire SS-18 monitoring well network (34 wells total including five existing OT-45 wells).
- Groundwater samples were analyzed by an offsite laboratory for VOCs by USEPA method 8260B, SVOCs by USEPA method 8270D, TPH (GRO, DRO, and ORO) by USEPA method 8015C, PCBs by USEPA Method 8082, TAL Metals (total and dissolved) by USEPA Methods 6010C/7470A or 200.7/245.1, and TDS by USEPA Method 2540C.

- All new soil boring and monitoring well locations were surveyed with a survey grade global positioning system (GPS).

Table 5-1 presents a summary of the sampling and analysis (soil and groundwater) that was conducted during the 2012 SS-18 SACM Investigation. Figures 5-1 and 5-2 present the soil boring and monitoring well locations for SACM sampling event.

5.1 Subsurface Soil Sampling

Based on the configuration of the SS-18 CVOC plumes in 2009 (see Figure 6-4 in Appendix A-3 of this report) it appears that the primary source area of the PCE, TCE, and 1,1-DCE soil contamination is located between Buildings 279 and 281. Therefore, source area soil sampling was designed to define the source area of these CVOC plumes which is centered between Buildings 279 and 281. As shown on Figure 5-1, a total of 15 soil borings (SS18-DP24 through SS18-DP38) were advanced to delineate a potential CVOC soil source area. In addition, eight soil borings (SS18-DP39 through SS18-DP46) were installed along the boundaries of the four VOC plumes and converted into permanent monitoring wells (SS18-MW23 through SS18-MW30) to define the lateral and downgradient extent of the groundwater contamination (Figure 5-1).

The soil borings were advanced in accordance with HAFB standard operating procedures (SOPs) provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003) using a Geoprobe Systems® 6600 Series combination direct push/hollow-stem auger drill rig equipped with a Geoprobe Systems® DT325 Dual Tube Soil Sampling System. These soil borings were sampled continuously to a maximum depth of 15 ft bgs. One soil sample was collected from each borehole for offsite laboratory chemical analysis. Details regarding monitoring well installation are provided below in Section 5.2.

Soils were visually classified in the field by a geologist according to the Unified Soil Classification System (USCS). Soils were screened using a MiniRae® 2000

photoionization detector (PID), with soil-headspace screening techniques to aid in selecting samples for laboratory chemical analysis. Soil sampling criteria was based on the highest PID readings. In the event that screening did not identify contamination, the soil samples were collected from the top of the water table (saturated zone). Soil samples were placed in the appropriate containers, packed on ice at 4 degrees Celsius (ºC), and delivered under chain-of-custody to Accutest Laboratories in Orlando, Florida. The soil boring logs for the 2012 borings are included in Appendix B of this report. A summary of soil boring locations, analyses, and sample intervals is provided in Table 5-1.

5.2 Monitoring Well Installation and Development

As previously stated, eight soil borings (SS18-DP39 through SS18-DP46) were converted into permanent monitoring wells (SS18-MW23 through SS18-MW30) to assist with delineating the upgradient, downgradient, and lateral extent of VOC contamination detected in 10 wells (SS18-MW02, -MW04, -MW05, -MW07, -MW08, -MW09, -MW18, -MW19, -MW22, and S51-MW4 [Site OT-45]) during the 2007 ACM and 2009 ACM Addendum Investigations. The locations of the eight new wells and the entire SS-18 monitoring well network are shown on Figure 5-2.

The eight new permanent monitoring wells (SS18-MW23 through SS18-MW30) installed during the SACM Investigation were constructed using hollow stem auger drilling methods. Upon borehole completion (approximately 15-ft bgs), a 10-foot section of 2-inch diameter, schedule 40 polyvinyl chloride (PVC) prepack well screen (0.010-inch factory slot) with an end cap was lowered to the bottom of the hollow stem auger tool sting and connected to 2-inch, PVC flush joint riser pipe in 5-ft length sections to the ground surface. As the hollow stem auger tool string was retracted, 10/20 mesh silica sand was tremmied into the boring to a height of 2-ft above the top of the well screen to provide an additional sand filter pack for the monitoring well. Following placement of the sand filter pack, a bentonite chip seal was installed above the sand filter pack, extending to a height of 1-ft bgs and hydrated with potable water. The annulus above the bentonite seal was grouted to the surface with a mixture of Portland cement and water. The monitoring wells were completed at the ground surface with an 8-inch protective flush mount cover, and a 2-inch locking cap at the well head. Monitoring well construction diagrams are provided in Appendix C and a summary of monitoring well construction details is included in Table 3-3.

Monitoring wells SS18-MW23 through SS18-MW30 were developed using a combination of surging and pumping. Prior to well development, a water-level measurement was taken at each well using an electronic water-level probe. This information, in addition to well depth, and well diameter, was used to calculate the volume of water in each well. Each newly installed monitoring well was surged in 2-to-3 ft intervals from the bottom of the screened interval to agitate and remove the fine grained sediment from the filter pack. At the completion of surging the groundwater was removed using a Proactive stainless steel Mini-Monsoon® submersible pump attached

to 3/8-inch polyethylene tubing. Development was performed by over-pumping the well until at least five well volumes had been removed, and the pH, turbidity, dissolved oxygen, specific conductivity, and temperature had stabilized by +/- 10 percent for at least three consecutive readings with a multi-parameter groundwater meter. The Monitoring Well Development Forms for each of the newly installed wells at SS-18 are provided in Appendix D of this report.

5.3 Groundwater Sampling

During September 2012, groundwater samples were collected from the 26 existing monitoring wells (SS18-MW02 through SS18-MW22 and S51-MW1, -MW3, -MW4, -MW5, and -MW7 [OT-45 wells]) and the 8 newly installed wells (SS18-MW23 through SS18-MW30) which are shown on Figure 5-2. Prior to sampling, groundwater levels were collected from each monitoring well and then the wells were purged with low flow purging techniques using a peristaltic pump, new dedicated ¼-inch polyethylene tubing, and multi-parameter groundwater meter equipped with a flow-thru cell. Field parameters were recorded for every well volume of groundwater removed. Field parameters were considered stable when the pH measurements remained constant within 0.1 units; specific conductivity, dissolved oxygen and temperature varied by no more than 10 percent, and turbidity by no more than 5 nephelometric turbidity units. Groundwater samples were not collected until three consecutive field parameter measurements met stabilization criteria. Appendix E of this report provides monitoring well sample collection forms which contain the groundwater purging data recorded prior to sample collection. Groundwater samples collected for VOC analysis were collected prior to other analytes, using a new disposable Teflon® bailer. Following the collection of samples for VOC analysis, groundwater samples for the remaining analytes (SVOCs, TPH, PCBs, TDS, and TAL metals) were collected using a peristaltic pump and low-flow sampling techniques. Samples collected for TAL metals analysis were field filtered using dedicated 0.45 micron disposable filters. Groundwater samples were placed in the appropriate containers, packed on ice at 4 ºC, and delivered under chain-of-custody to Accutest Laboratories located Orlando, Florida. A summary of monitoring well locations and analyses is provided in Table 5-1.

5.4 Surveying

All sample locations were surveyed in accordance with methods described in the *Basewide Quality Assurance Project Plan* (Bhate, 2003). The locations, referenced with horizontal coordinates, and top of casing elevations were obtained for each monitoring well using a survey grade Trimble® Geometrics Pro XR GPS. All elevations are referenced to the North American Vertical Datum (NAVD) 1983. All horizontal coordinates are referenced to the State Plane Coordinate System, New Mexico Central. Elevations and coordinates are surveyed to the closest 0.001 foot. Table 3-2 includes the survey data and the depth to groundwater measurements collected on August 29, 2012.

5.5 Equipment Decontamination

All drilling equipment associated with soil sampling and monitoring well installation (DPT tooling, hollow stem augers etc.) was decontaminated in accordance with the HAFB SOPs provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003).

5.6 Waste Handling

All investigation derived waste (IDW) produced during the investigation process was handled in accordance with the HAFB SOPs provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003).

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6 LABORATORY ANALYSIS DATA VALIDATION SUMMARY SUPPLEMENTAL ACM (2012)

This section presents the data validation summaries for the SS-18 SACM investigation conducted by NationView (in August/September 2012). The analysis of soil and groundwater samples collected during this investigation followed the proposed methodologies presented in the *Supplemental Accelerated Corrective Measures Work Plan SS-18 (AOC-H), Holloman Air Force Base, New Mexico* (NationView, 2012). All analytical procedures followed the USEPA SW-846 protocol with the samples being analyzed for the following:

- VOCs by USEPA Method 8260B
- SVOCs by USEPA Method 8270D
- TPH-GRO, -DRO and -ORO by USEPA Method 8015C
- TAL Metals by USEPA 6010C/7471B/7470A or 200.7/245.1
- PCBs by USEPA Method 8082A

The groundwater samples included the following additional parameter:

- TDS by Method 2540C

All of the laboratory data generated as part of the work conducted at SS-18 was validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including trip blanks, equipment blank, matrix spikes, and matrix spike duplicates were collected to document field and laboratory QA/QC. The soil and groundwater analytical data packages are provided in Appendix F of this report. The Data Validation Reports are provided in Appendix G of this report. Accutest Laboratories in Orlando, Florida performed the analysis of all samples collected.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the data validation reports (Appendix G) with the following sections providing a synopsis of each analyte group that required qualification.

6.1 Volatile Organic Compounds

The soil vials for the volatiles analysis of samples SS18-DP26-8, SS18-DP28-7, SS18-DP35-5 and SS18-DP36-7 were not preserved within 48 hours of sampling. The positive results were considered estimated and flagged “J”.

The volatile analysis of sample SS18-MW05 was re-run at dilution outside of the requisite hold time. Only compound 1,1-DCA was reported from the second run and was qualified as estimated, “J”.

Multiple method blanks reported detectable concentrations of 1,2,3-trichlorobenzene associated with numerous samples. Sample SS18-MW22-A was adversely affected by possible laboratory contamination since it yielded a positive detection less than 5 times the blank concentration for this compound. 1,2,3-Trichlorobenzene was qualified as estimated, “J”, in this sample.

The relative percent difference (RPD) for PCE and TCE were above project defined control limits for sample SS18-MW08 and its field duplicate SS18-MW08-A. These compounds were qualified as estimated, “J”.

The volatile laboratory control spike (LCS) recoveries for acetone, chlorobenzene, o-dichlorobenzene, and vinyl acetate were above control limits associated with samples SS18-MW16, SS18-MW02, SS18-MW30, SS18-MW30-A and SS18-MW28. The compound o-dichlorobenzene was detected in samples SS18-MW30 and SS18-30-A and was qualified as estimated, “J”.

6.2 Semi-Volatile Organic Compounds

The semi-volatile LCS recovery for isophorone was below QC limits associated with samples S51-MW3, S51-MW3-A, SS18-MW29, SS18-MW06, SS18-MW16, SS18-MW02, SS18-MW30, SS18-MW30-A, SS18-MW28, SS18-MW18, SS18-MW21, SS18-MW03, SS18-MW19, and SS18-MW13. This non-detected compound was qualified as estimated non-detected, “UJ”.

Additionally, the semi-volatile matrix spike/matrix spike duplicate (MS)/(MSD) recoveries for isophorone, associated with SS18-MW18, SS18-MW21, SS18-MW03, SS18-MW19, and SS18-MW13 were outside control limits. Isophorone yielded both MS and LCS recoveries outside control limits and was qualified accordingly.

6.3 Total Petroleum Hydrocarbons (GRO/DRO/ORO)

Sample SS18-DP35-5 was re-extracted and reanalyzed beyond hold time for the extractable TPH analysis. The results (TPH-DRO and ORO) were qualified as estimated, “J”.

The LCS recovery for TPH-DRO was above QC limits associated with samples SS18-DP26-8, SS18-DP28-7, SS18-DP29-8, SS18-DP30-11, SS18-DP33-8, SS18-DP31-11, SS18-DP31-11-A, SS18-DP33-8-A, SS18-DP37-8, SS18-DP35-5, SS18-DP36-7, and SS18-DP44-7. The detected concentrations in samples SS18-DP26-8 and SS18-DP35-5 were qualified as estimated, “J”. Additionally, the MS/MSD recoveries for TPH-DRO were slightly above QC limits. Since the LCS recovery was also outside control limits in

the above mentioned samples (SS18-DP26-8 and SS8-DP35-5) they were qualified appropriately.

6.4 TAL Metals (Total and Dissolved)

6.4.1 Soil

The MS and/or MSD recoveries of multiple metals, associated with all soil samples, were reported outside control limits. Where the sample concentration exceeded the spiked concentration by a factor of four or more, control limits were not applicable. Possible matrix interference was the basis for the exceedences where control limits did apply; the positively identified metals (see individual data validation reports) were qualified as estimated, “J”.

The serial dilution percent difference of multiple metals were outside control limits associated with samples SS18-DP35-5, SS18-DP36-7, SS18-DP44-7, SS18-DP34-8, SS18-DP42-5, SS18-DP43-5, SS18-DP38-8, SS18-DP38-8-A, SS18-DP27-8, SS18-DP25-8, SS18-DP32-12, SS18-DP41-7, SS18-DP45-8, and SS18-DP46-8. Only calcium had concentrations exceeding 50 times the MDL and was qualified as estimated, “J”, in each of these samples.

The RPD for the laboratory duplicate of aluminum, antimony, beryllium, calcium, chromium, copper, magnesium, manganese, sodium, zinc, mercury and thallium were outside control limits associated with samples SS18-DP26-8, SS18-DP28-7, SS18-DP29-8, SS18-DP30-11, SS18-DP33-8, SS18-DP31-11, SS18-DP31-11-A, SS18-DP33-8-A, and SS18-DP37-8. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable for antimony, beryllium, chromium, copper, sodium, thallium, mercury and zinc. Aluminum, calcium, magnesium, and manganese were affected by possible sample non-homogeneity and were qualified as estimated, “J”.

The RPD between sample SS18-DP31-11 and its field duplicate was outside project defined control limits for aluminum, arsenic, barium, calcium, iron, manganese, nickel, and potassium. These compounds were qualified as estimated, “J”.

6.4.2 Groundwater (Total/Dissolved)

The total and/or dissolved MS/MSD recoveries of multiple metals were outside control limits. Where the sample concentration exceeded the spiked concentration by a factor of four or more control limits were not applicable. Possible matrix interference was the basis for the exceedences where control limits did apply; the positively identified metals (see individual data validation reports) were qualified as estimated, “J”.

The RPD for total aluminum was outside project defined control limits for samples SS18-MW22, SS18-MW08, and SS18-MW30 and their associated field duplicate samples; total selenium for sample SS18-MW08 and the field duplicate SS18-MW08-A;

and for total iron in samples SS18-MW30 and S51-MW3 and the associated field duplicates. These compounds were qualified as estimated, “J”.

The serial dilution percent difference for multiple total and dissolved metals were outside control limits associated with all aqueous samples. Samples SS18-MW15, SS18-MW08, SS18-MW12, SS18-MW09, SS18-MW10, and SS18-MW11 yielded dissolved vanadium concentrations exceeding 50 times the MDL. Samples S51-MW3, S51-MW3-A, SS18-MW16, SS18-MW30, and SS18-MW30-A yielded total and dissolved potassium concentrations exceeding 50 times the MDL. Finally, the concentrations of the following metals were greater than 50 times the MDL in the subsequent samples: total and dissolved nickel in samples SS18-MW19 and SS18-MW25; total copper in sample SS18-MW04; and dissolved sodium in samples SS18-MW04 and SS18-MW20. These compounds were qualified as estimated, “J”.

6.5 Polychlorinated Biphenyls

No PCB data warranted qualification.

6.6 Total Dissolved Solids

No TDS data warranted qualification.

7 NATURE AND EXTENT OF CONTAMINATION SUPPLEMENTAL ACM (2012)

This section presents the soil and groundwater analytical results from the SS-18 SACM investigation conducted by NationView in August/September 2012. This section also presents the current nature and extent of soil and groundwater contamination which was detected during this investigation. The soil and groundwater sampling locations are presented on Figures 7-1 and 7-2, respectively. The complete analytical laboratory results conducted by Accutest are included in Appendix F (on CD only).

The primary objectives of the SS-18 SACM were to: 1) locate and characterize a potential residual CVOC soil source area in the vicinity of Buildings 281 and 279; 2) to install additional groundwater monitoring wells to further delineate the boundaries of the CVOC plumes previously detected within the SS-18/OT-45 monitoring well network; 3) if a source area is identified (CVOC soil contamination above applicable regulatory action levels) the source area would be remediated by excavation and compliant offsite disposal; and 4) perform a site specific human risk assessment to determine if there is an acceptable level of risk due to complete exposure pathways at the site.

The soil and groundwater analytical results from samples collected during this SACM are summarized in Tables 7-1 and 7-2, respectively. Duplicate samples were collected from soil borings SS18-DP31 (11 ft bgs), -DP33 (8 ft bgs) and –DP38 (8 ft bgs) in addition, duplicate groundwater samples were collected from SS18-MW08, -MW22, -MW30, and S51-MW3.

7.1 Soil Analytical Results

In August 2012, 26 subsurface soil samples (including 3 duplicates) were collected from 23 soil borings during the SS-18 SACM investigation. Soil borings SS18-DP24 through –DP38 were drilled in the vicinity of Buildings 281 and 279 to locate a residual CVOC source area and soil borings SS18-DP39 through –DP46 were converted into permanent monitoring wells to assist with the up, down and cross gradient delineation of CVOC groundwater plumes. Soil samples were analyzed for VOCs, SVOCs, TPH (DRO, GRO and ORO), PCBs, and TAL metals. The subsurface soil samples collected during the SS-18 SACM Investigation were collected from within the saturated zone (5 to 12 ft bgs). The last digit of the sample identification number indicates the bottom of the sample interval. The analytical results for these soil samples are summarized in Table 7-1. Concentrations of contaminants detected above applicable action levels are presented on Figure 7-1.

7.1.1 Volatile Organic Compounds

A total of 11 VOCs were detected above the MDL in the 26 subsurface soil samples collected. One or more VOCs were detected above the MDL in 9 of the 23 boreholes. Four of the source area boreholes (SS18-DP28, -DP30, -DP31 and –DP32) had

detections of three to five VOCs above the MDL. In addition, four other source area boreholes (SS18-DP27, -DP29, -DP35 and –DP36) and soil boring SS18-DP45 had one to four VOCs that were detected at low or estimated concentrations above the MDL (Table 7-1). However, all detected VOCs were at least two orders of magnitude below their applicable NMED SSLs (NMED, 2012b). The maximum concentrations of 1,1-DCA (14.5 µg/kg); 1,1-DCE (25.8 µg/kg); cis-1,2-dichloroethylene (cis-1,2-DCE) (2.9J µg/kg); PCE (94.9 µg/kg); and TCE (9.6 µg/kg) were detected in three of the source area boreholes (SS18-DP28, -DP30, and –DP32) located between Buildings 279 and 281 (Figure 7-1). Based on the data, a VOC source area requiring excavation and disposal was not located in the vicinity of Buildings 279 and 281.

7.1.2 Semi-Volatile Organic Compounds

Semi-volatile organic compounds were not detected in any of the 26 subsurface soil samples collected during the SS-18 SACM Investigation.

7.1.3 Total Petroleum Hydrocarbons

TPH fractions GRO (C_6 – C_{10}), DRO (C_{10} – C_{22}), and/or ORO (C_{22} – C_{36}) were detected above the MDL in 5 samples collected from 5 of the 23 boreholes (Table 7-1). TPH-GRO was detected in one sample (SS18-DP45-8) at a concentration of 1,440 mg/kg, TPH-DRO was detected in three samples ranging from 4.56J (SS18-DP35-5) to 1,590 mg/kg (SS18-DP45-8) and TPH-ORO was detected in five samples ranging from 5.34J (SS18-DP34-8) to 356J mg/kg (SS18-DP45-8). The maximum concentration of combined TPH-GRO, -DRO and -ORO (3,386 mg/kg) was detected in soil sample SS18-DP45-8 (Figure 7-1). This sample was visibly stained (gray) and had a petroleum hydrocarbon odor with a PID reading of 203 parts per million (ppm). Additionally, this was the only soil sample that had combined and/or singular concentrations of TPH fractions (GRO, DRO, and ORO) that were above the NMED TPH screening guideline for unknown oil of 1,000 mg/kg (NMED 2012b, Table 6-3). However, it is not feasible that the TPH exceedence detected in soil boring SS18-DP45 is related to VOC contamination associated with Site SS-18 (located 1,200 ft to the north) or Site OT-45 (located 250 ft to the east). As documented in NMED approved *Final Accelerated Corrective Measures Completion Report Sites OT-03 and OT-45, Holloman Air Force Base, New Mexico* (Bhate, 2008), all petroleum contaminated soil (PCS) above regulatory action levels at Site OT-45 was completely excavated and treated in 1991 and 2008.

As shown on Figure 7-1, soil boring SS18-DP45 is located approximately 125 ft of east Building 301 and ERP Site OT-44 (AOC-P, Building 301 Fuel Tank Leak). AOC-P (OT-44) has recently been approved for Corrective Action Complete Without Controls status (NMED, 2012d) and has been transferred to Table B of the HAFB Hazardous Waste Facility Permit (NMED 2012a). The TPH exceedence detected in the saturated soil collected at 8 ft bgs from boring SS18-DP45 most likely represents residual TPH contamination associated with the former 25,000-gallon underground storage tank leaking pipeline at Site OT-44.

7.1.4 Polychlorinated Biphenyls

All PCBs were not detected in any of the soil samples that were collected during this investigation.

7.1.5 TAL Metals

Eighteen of the twenty-three TAL metals were detected above the MDL. As shown on Table 7-1, with the exception of arsenic in one sample, all detected TAL metals were below their respective NMED SSLs (NMED, 2012b) and/or NMED approved background levels. The singular isolated exceedance of arsenic (4.4 mg/kg) was detected slightly above the SSL (3.9 mg/kg) and the NMED approved background level (3.7 mg/kg) in soil sample SS18-DP31-11 (Figure 7-1).

7.2 Groundwater Analytical Results

Groundwater samples were collected from 26 previously installed monitoring wells (SS18-MW02 through SS18-MW22 and S51-MW1, -MW3, -MW4, -MW5, and -MW7) and 8 new monitoring wells (SS18-MW23 through SS18-MW30) during the SS-18 SACM investigation conducted in September 2012. One well installed during the 1984 IRP Phase II investigation (18W1) was blocked and was not sampled during the SACM investigation. The SS-18 monitoring well network also includes 5 previously installed wells at OT-45 which is located approximately 850 ft downgradient of SS-18. The groundwater samples collected from the SS-18 network were analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), PCBs, TAL metals, and TDS. The analytical results are presented in Table 7-2 and the monitoring well locations are shown on Figure 7-2. The following sections summarize the groundwater data which exceeds the current screening criteria (USEPA MCLs and/or the NMWQCC groundwater standards) and NMED approved background levels.

7.2.1 Volatile Organic Compounds

Twenty-two VOCs were detected above the MDL in the 38 groundwater samples collected from the SS-18 monitoring well network during the SACM investigation (Table 7-2). The most frequently detected VOCs were chloroform; 1,1-DCA; 1,1-DCE; 1,2-DCA; cis-1,2-DCE; trans-1,2-DCE; 1,1,1-TCA; PCE; TCE; dichlorodifluoromethane; o-dichlorobenzene; p-dichlorobenzene; methyl tert butyl ether; and vinyl chloride. Of the 22 VOCs detected above the MDL, five CVOCs (1,1-DCA; 1,1-DCE; cis-1,2-DCE; PCE; and TCE) were detected above the applicable NMWQCC groundwater standards (NMAC 20.6.2.3103) and/or USEPA MCLs (USEPA, 2009a). Eight of the thirty-four SS-18/OT-45 monitoring wells had concentrations of one or more CVOCs detected above applicable action levels (Table 7-2). TCE detected in six wells, was the most widely distributed CVOC detected above a USEPA MCL and/or a NMWQCC groundwater standard followed by 1,1-DCA; 1,1-DCE; and PCE (four wells) and cis-1,2-DCE (three wells). These CVOCs are common groundwater contaminants which most likely come from unknown improper disposal practices and/or accidental spills of metal cleaning

solvents. Concentrations of the five CVOCs detected above applicable action levels are presented on Figure 7-2. In addition, groundwater action level isocontours for the five CVOCs are illustrated on Figure 7-3. The following subsections provide a description of the nature and extent for the five CVOCs which were detected above their applicable NMWQCC groundwater standard or USEPA MCL.

7.2.1.1 1,1-Dichloroethane

1,1-DCA was the most widely detected CVOC (18 detections above the MDL), and was detected in groundwater samples collected from four monitoring wells above the NMWQCC groundwater standard (25 µg/L) with concentrations ranging from 25.2 µg/L (SS18-MW04) to 497 µg/L (SS18-MW19). Figure 7-4 presents the NMWQCC groundwater standard isocontour (25 µg/L) for 1,1-DCA. Based on the configuration of the NMWQCC isocontour, the boundary of the plume has been delineated. The 1,1-DCA plume is approximately 775 ft (length) by 200 ft (width). The 1,1-DCA groundwater contamination appears to originate in the vicinity of Buildings 282 and 283 (Figure 7-2). 1,1-DCA is a common groundwater contaminant associated with 1,1,1-TCA solvent spills. During natural degradation, the 1,1,1-TCA molecule is converted into 1,1-DCA by reductive dechlorination. Furthermore, low levels of 1,1,1-TCA (below action level) were detected in three of the 1,1-DCA plume upgradient wells (SS18-MW04, -MW05 and -MW12).

7.2.1.2 1,1-Dichloroethylene

1,1-DCE was detected 17 times above the MDL and was detected in four monitoring wells above the NMWQCC groundwater standard (5 µg/L) and the USEPA MCL (7 µg/L) with concentrations ranging from 35.9 µg/L (SS18-MW04) to 97.6 µg/L (SS18-MW08 duplicate sample). The 1,1-DCE NMWQCC groundwater standard isocontour (5 µg/L) is depicted on Figure 7-5. Based on the 5 µg/L isocontour (NMWQCC action level), the boundary of the 1,1-DCE plume has been defined. The dimensions of the 1,1-DCE plume are approximately 700 ft (length) by 165 ft (width). The 1,1-DCE groundwater plume also appears to originate in the vicinity of Buildings 282 and 283 (Figure 7-5). 1,1-DCE groundwater contamination is typically related to chlorinated solvent spills (e.g. PCE/TCE and/or 1,1,1-TCA) and is produced by either the reductive dechlorination of the TCE molecule or by dehydrohalogeneation of the 1,1,1-TCA molecule during degradation. Based in the alignment of the 1,1-DCE plume and the 1,1-DCA plume, it is likely that 1,1-DCE is the result dehydrohalogeneation from a 1,1,1-TCA release.

7.2.1.3 cis-1,1-Dichloroethylene

Volatile cis-1,2-DCE was detected in seven samples above the MDL and was above the USEPA MCL (70 µg/L) in groundwater samples collected from three wells with concentrations ranging from 99.9 µg/L (S51-MW3 duplicate sample) to 199 µg/L (SS18-MW16). Figure 7-6 illustrates the USEPA MCL isocontour for cis-1,2-DCE (70 µg/L). Based on the outline of the MCL isocontour, the boundary of the cis-1,2-DCE plume has

been defined. The cis-1,2-DCE plume boundaries are approximately 650 ft (length) by 90 ft (width). Typically, cis-1,2-DCE groundwater contamination is associated with chlorinated solvent spills (e.g. TCE and/or PCE). During degradation, the TCE molecule is converted into cis-1,2-DCE by reductive dechlorination. Therefore, based on TCE degradation into cis-1,2-DCE (fate) and the southwesterly groundwater flow direction (transport), the cis-1,2-DCE groundwater contamination appears to originate in the vicinity of Buildings 279 and 281 where the PCE and TCE plumes originate (Figures 7-2 and 7-3).

7.2.1.4 Tetrachloroethylene

PCE was detected in 11 samples above the MDL and was above the USEPA MCL (5 µg/L) in groundwater samples collected from four wells with concentrations ranging from 16.3 µg/L (SS18-MW08 duplicate sample) to 150 µg/L (SS18-MW19). The MCL isoconcentration contour of PCE above the USEPA MCL (5 µg/L) is shown on Figure 7-7. Based on the MCL isocontour, the boundary of the PCE plume above the MCL has been defined. The dimensions of the PCE plume are approximately 775 ft (length) by 225 ft (width). The PCE groundwater contamination appears to originate in the vicinity of Buildings 279 and 281 (Figure 7-2).

7.2.1.5 Trichloroethylene

TCE was detected 14 times above the MDL and was detected in six monitoring wells above the USEPA MCL (5 µg/L) with concentrations ranging from 6.5 µg/L (SS18-MW08) to 111 µg/L (SS18-MW18). Figure 7-8 illustrates the USEPA MCL isocontour of TCE (5 µg/L). The concentration of TCE (9.5 µg/L) detected above the MCL in monitoring well SS18-MW29 was not included in the TCE MCL isocontour that originates near Buildings 279 and 281 as TCE was not detected in the two wells (S51-MW1 and SS18-MW27) located upgradient from SS18-MW29. Therefore, the TCE detected in SS18-MW29 most likely represents residual groundwater contamination associated with ERP Site OT-44. TCE was detected above the MCL in two OT-44 monitoring wells during the Phase II Investigation conducted in 1985 (Dames and Moore, 1987). Site OT-44 is located approximately 125 ft east (cross-gradient) from SS18-MW29. Based on the outline of the MCL isocontour, the boundary of the TCE groundwater plume associated with Buildings 279 and 281 (SS-18) has been defined. The TCE plume boundary is approximately 790 ft (length) by 250 ft (width). In addition, the TCE groundwater contamination also appears to co-originate with the PCE plume in the vicinity of Buildings 279 and 281 (Figure 7-2).

7.2.2 Semi-Volatile Organic Compounds

Low estimated concentrations of four SVOCs (pentachlorophenol; 1,2-dichlorobenzene dibenzofuran; and 1-methylnapthalene) were detected in groundwater samples collected from monitoring wells S51-MW4, SS18-MW29, SS18-MW07, and SS18-MW24, respectively. A singular estimated concentration (6.0J µg/L) of pentachlorophenol detected in the groundwater sample collected from S51-MW5 was

the only SVOC detected above an applicable action level. The maximum detections of 1,2-dichlorobenzene (0.98J µg/L) and 1-methylnapthalene (0.60J µg/L) were each below their applicable action levels. Currently there is not a NMWQCC standard or USEPA MCL for dibenzofuran (Table 7-2). All other SVOCs were not detected in the groundwater samples collected during the 2012 SS-18 SACM Investigation.

7.2.3 Total Petroleum Hydrocarbons

Low concentrations of TPH fractions GRO (C_6 – C_{10}), DRO (C_{10} – C_{22}), and/or ORO (C_{22} – C_{36}) were detected above the MDL in the groundwater samples collected from 21 of the SS-18/OT-45 monitoring wells (Table 7-2). The maximum concentration of TPH-GRO (0.486 mg/L), TPH-DRO (1.10 mg/L), and TPH-ORO (0.309 mg/L) were detected in the groundwater samples collected from SS18-MW19, -MW07, and -MW29, respectively. The groundwater sample collected from SS18-MW07 also contained the maximum combined TPH-GRO, DRO, and ORO concentration (1.3016 mg/L). Each of these individual and combined TPH-GRO, DRO, and ORO detections is below the NMED TPH screening guideline for an unknown oil of 50 mg/L (Table 6-3, NMED, 2012b).

7.2.4 Polychlorinated Biphenyls

PCBs were not detected in any of the groundwater samples that were collected during the 2012 SS-18 SACM Investigation.

7.2.5 TAL Metals

TAL Metals were analyzed via USEPA SW-846 Method 6010C/7470A or USEPA Method 200.7/245.1 for dissolved and total matrices. The following subsections summarize the dissolved and total TAL metals findings.

7.2.5.1 Dissolved TAL Metals

Nineteen (19) dissolved (filtered) TAL metals were detected above the MDL. Six of the TAL metals (aluminum, antimony, arsenic, cobalt, manganese, and thallium) were detected above their respective USEPA MCLs, Secondary MCLs, NMWQCC groundwater standards and/or NMED approved background levels (Table 7-2). In addition, there were six dissolved metals (barium, calcium, chromium, iron, nickel, and vanadium) which were detected above their respective NMED approved background levels (NMED, 2011) but below their applicable action levels.

The following subsections provide a summary of results for the six dissolved TAL metals which were detected above their applicable actions levels and NMED approved background levels. Figure 7-9 presents the distribution of dissolved TAL metals detected in groundwater which exceeded applicable USEPA MCLs, USEPA Secondary MCLs, and/or NMWQCC groundwater standards at SS-18.

Aluminum

Aluminum was detected in the groundwater samples collected from 16 monitoring wells within the USEPA Secondary MCL (50 – 200 µg/L) at concentrations ranging from 51.3J µg/L (SS18-MW09) to 151J µg/L (SS18-MW25). However, aluminum was not detected above 200 µg/L (the upper end of the Secondary MCL range) in any of the groundwater samples collected during the SACM. Based on a recommendation from the NMED regarding the determination of site specific background levels for metal detections above action levels (NMED, 2012e), these detections of aluminum most likely represent the natural variability of groundwater geochemistry at SS-18 as the maximum aluminum concentration (151J µg/L) was detected in monitoring well SS18-MW25 which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, VOCs were not detected in the SS18-MW25 groundwater sample. In addition, aluminum was detected above the NMED approved background level (54 µg/L) in 14 wells.

Antimony

Antimony was detected in the groundwater samples collected from four monitoring wells above the USEPA MCL and the NMED approved background level (6 µg/L) at concentrations ranging from 6.7 µg/L (SS18-MW08) to 8.9J µg/L (SS18-MW03). The four exceedences of antimony most likely represent the natural variability of groundwater geochemistry at SS-18 as they are below the HAFB Basewide Background (dissolved metals in groundwater) Upper Tolerance Limit (UTL) (10.0 µg/L) (NationViewIBhate JV III, 2011). In addition, the highest exceedence of antimony (8.9J µg/L) was detected in monitoring well (SS18-MW03) which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, the only VOC detected in the groundwater sample collected from SS18-MW03 was an estimated concentration of chloroform (a common lab contaminant).

Arsenic

Arsenic was detected in the groundwater samples collected from 26 monitoring wells above the USEPA MCL and the NMED approved background level (10 µg/L) with concentrations ranging from 10.3 µg/L (SS18-MW09) to 33.4 µg/L (SS18-MW26). However these exceedences of arsenic most likely represent the natural variability of groundwater geochemistry at SS-18 as the maximum arsenic concentration (33.4 µg/L) was detected in monitoring well SS18-MW26 which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, VOCs were not detected in the SS18-MW26 groundwater sample. In addition, with the exception of two samples (SS18-MW26 and S51-MW1) all of the arsenic exceedences were below the HAFB Basewide Background (dissolved metals in groundwater) UTL for arsenic of 28.53 µg/L (NationView|Bhate JV III, 2011).

Cobalt

Cobalt was detected in the groundwater sample collected from one monitoring well (SS18-MW25) above the NMWQCC groundwater standard (50 µg/L) at a concentration of 90.0 µg/L. However this exceedence of cobalt most likely represents the natural variability of groundwater geochemistry at SS-18 as maximum cobalt concentration (90.0 µg/L) was detected in monitoring well SS18-MW25 which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, VOCs were not detected in the SS18-MW25 groundwater sample. In addition, cobalt was detected above the NMED approved background level (2.6 µg/L) in three wells.

Manganese

Manganese was detected in groundwater samples collected from 19 monitoring wells above the USEPA MCL and the NMED approved background level (50 µg/L) with concentrations ranging from 63.3 µg/L (SS18-MW10) to 1,430 µg/L (SS18-MW29). However these exceedences of manganese most likely represent the natural variability of groundwater geochemistry at SS-18 as the second highest manganese concentration (1,260 µg/L) was detected in monitoring well SS18-MW25 which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, VOCs were not detected in the SS18-MW25 groundwater sample.

Thallium

Thallium was detected in the groundwater samples collected from four monitoring wells above the USEPA MCL and the NMED approved background level (2 µg/L) at concentrations ranging from 2.1J µg/L (SS18-MW27) to 8.6J µg/L (SS18-MW20). The four exceedences of thallium most likely represent the natural variability of groundwater geochemistry at SS-18 as they are below the HAFB Basewide Background (dissolved metals in groundwater) UTL (15.0 µg/L) (NationViewIBhate JV III, 2011). In addition, the maximum detection of antimony (8.6J µg/L) was detected in monitoring well (SS18-MW20) which is located outside the boundaries of the five CVOC plumes (Figure 7-3). Furthermore, the only VOC detected in the groundwater sample collected from SS18-MW20 was an estimated concentration of chloroform (a common lab contaminant).

7.2.5.2 Total TAL Metals

Twenty one (21) total (unfiltered) TAL metals were detected above the MDL. Eight of the total TAL metals (aluminum, antimony, arsenic, chromium, cobalt, iron, manganese, and thallium) were detected above their respective USEPA MCLs, Secondary MCLs, NMWQCC groundwater standards, and/or NMED approved background levels (Table 7-2). In addition, there were seven total metals (barium, calcium, copper, mercury, nickel, vanadium, and zinc) which were detected above their respective NMED approved background levels (NMED, 2011) but below their applicable action levels. Based on recent NMED correspondence (NMED, 2012c) HAFB is only required to analyze mercury for total (unfiltered) analysis and that dissolved (filtered) analysis is used for all

other metals. Because total mercury did not exceed its MCL there is no further discussion of the total metals results from the SACM Investigation.

7.2.6 Total Dissolved Solids

TDS concentrations ranged from 2,720 mg/L (SS18-MW24) to 20,600 mg/L (SS18-MW30) and exceeded the NMWQCC groundwater standard of 1,000 mg/L and the USEPA Secondary MCL (500 mg/L). In addition, six monitoring wells (SS18-MW03, -MW08, -MW20, -MW30, S51-MW3, and S51-MW4) located throughout the entire SS-18 monitoring well network had TDS concentrations which exceed 10,000 mg/L; therefore this aquifer is classified by the USEPA as a Class III B aquifer which is designated as unfit for human consumption (USEPA, 1986). As a result of this classification, the human ingestion of groundwater at Site SS-18 is not a valid pathway. Furthermore, the TDS concentrations less than 10,000 mg/L are most likely anthropogenic, due to leaking underground water lines which traverse the site. Figure 7-10 presents all of the TDS concentrations that were detected above the USEPA Secondary MCL and the NMWQCC groundwater standard during the 2012 groundwater sampling event.

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8 RISK BASED EVALUATION

This section presents the methodology used by the Risk Assessment Management (RAM) Group for risk evaluation for the SS-18 Site. The methodology consists of the following:

1. Compilation of data (refer to Section 8.1);
2. Identification of chemicals of potential concern (COPCs) (refer to Section 8.2);
3. Development of exposure model (EM) (refer to Section 8.3);
4. Calculation of representative concentrations (refer to Section 8.4);
5. Calculation of risk for complete exposure pathways (refer to Section 8.5);
6. Calculation of cumulative risk (refer to Section 8.6); and
7. Uncertainty analysis (refer to Section 8.7).

Each of the above steps is discussed in detail below.

8.1 Compilation of Data

Following is a summary of the soil data available at the SS-18:

Date	Sample Locations	No. of Sample Locations	No. of Samples
1984	18B1, 18W1	2	6*
June 2007	DP01 to DP06	6	7**
August 2009	DP07 to DP23	17	37#
August 2012	DP24 to DP46	23	26##

Notes:
* Samples collected in 1984 were not used for the risk assessment (RA) as they are over 29 years old and not representative of current conditions. Recent samples are available from this area.
** One duplicate sample was collected from DP01-4.
# Two samples were collected from each of 17 locations. One duplicate sample was collected from each of three locations DP12-8A, DP14-7A, and DP17-6A. Soil data collected from DP15 were not used for the RA as this soil boring is located immediately adjacent to upgradient SWMU 10 (former oil/water separator).
One duplicate sample was collected from each of three locations DP31, DP-33, and DP38. Soil data collected from DP45 were not used for the RA as this soil boring is located adjacent to ERP Site OT-44.

Following is a summary of the groundwater data available at the SS-18:

Monitoring Well	No. of Sampling Events	Sampling Date
18W1	1	1984#
SS18-MW02, SS18-MW03*	3	Jun. 2007, Aug. 2009, Sep. 2012
SS18-MW04	4	Jun. 2007, Jul. 2007, Aug. 2009, Sep. 2012
SS18-MW05, SS18-MW06**, SS18-MW07, SS18-MW08***	3	Oct. 2007, Aug. 2009, Sep. 2012
SS18-MW09, SS18-MW10, SS18-MW11, SS18-MW12	2	Sep. 2009, Sep. 2012
SS18-MW13	2	Oct. 2009, Sep. 2012
SS18-MW14, SS18-MW15, SS18-MW-16+, SS18-MW17, SS18-MW18	2	Sep. 2009, Sep. 2012
SS18-MW19, SS18-MW20	2	Oct. 2009, Sep. 2012
SS18-MW21, SS18-MW22++	2	Sep. 2009, Sep. 2012
SS18-MW23, SS18-MW24, SS18-MW25, SS18-MW26, SS18-MW27, SS18-MW28	1	Sep. 2012
SS18-MW29	1	Sep. 2012##
SS18-MW30***	1	Sep. 2012
S51-MW1	2	Jun. 2007, Sep. 2012
S51-MW3***	2	Jun. 2007, Sep. 2012
S51-MW4, S51-MW5	2	Jun. 2007, Sep. 2012
S51-MW7*	2	Jun. 2007, Sep. 2012

Note:
* One duplicate sample was collected in June 2007.
** One duplicate sample was collected in August 2009.
*** One duplicate sample was collected in September 2012.
\+ One duplicate sample was collected in September 2009.
++ One duplicate sample was collected in September 2009 and September 2012.
\# Groundwater data collected in 1984 were not used for the RA since these samples are too old and are not representative of current conditions.
Groundwater data collected from SS18-MW29 were not used for the RA as this monitoring well is located adjacent to ERP Site OT-44.

Summary of Data Used for Risk Assessment

Based on the above, the soil data used for the RA are summarized below:

Date	Sample Locations	No. of Sample Locations	No. of Samples
June 2007	DP01 to DP06	6	7
August 2009	DP07 to DP14, DP16 to DP23	16	35
August 2012	DP24 to DP44, DP46	22	25

Figures 4-1 and 6-3 of Appendix A-3, and Figure 5-1 show the locations of the soil samples used for the RA.

Based on the above, the groundwater data used for the RA are summarized below:

Monitoring Well	No. of Sampling Events	Sampling Date
SS18-MW02, SS18-MW03	3	Jun. 2007, Aug. 2009, Sep. 2012
SS18-MW04	4	Jun. 2007, Jul. 2007, Aug. 2009, Sep. 2012
SS18-MW05 to SS18-MW08	3	Oct. 2007, Aug. 2009, Sep. 2012
SS18-MW09 to SS18-MW12	2	Sep. 2009, Sep. 2012
SS18-MW13	2	Oct. 2009, Sep. 2012
SS18-MW14 to SS18-MW18	2	Sep. 2009, Sep. 2012
SS18-MW19, SS18-MW20	2	Oct. 2009, Sep. 2012
SS18-MW21, SS18-MW22	2	Sep. 2009, Sep. 2012
SS18-MW23 to SS18-MW28	1	Sep. 2012
SS18-MW30	1	Sep. 2012
S51-MW1	2	Jun. 2007, Sep. 2012
S51-MW3 to S51-MW5	2	Jun. 2007, Sep. 2012
S51-MW7	2	Jun. 2007, Sep. 2012

Figure 5-2 shows the location of the groundwater samples used for the RA.

Chemicals with at least one detected concentration anywhere on the site were considered for the RA. Tables 8-1(a) and 8-2(a) present the analytical data for chemicals with at least one detected concentration for soil and groundwater, respectively.

For chemicals not detected, reporting limits are presented. The data compiled in Tables 8-1(a) and 8-2(a) were quantitatively evaluated for use in the RA as follows:

- Conservatively, data with laboratory qualifiers “B”, “J”, and “L” were considered as detected concentrations.
- TPH concentrations reported as TPH-GRO (C_6-C_{10}) were not considered in the RA since individual compounds that contribute TPH-GRO (e.g., benzene, toluene, ethylbenzene, xylenes, and naphthalene) are evaluated. This is consistent with methodology per the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).
- TPH concentrations reported as TPH-DRO (C_{10}-C_{22}) and TPH-ORO (>C_{22}-C_{36}) were added as follows and are shown as TPH (C_{10}-C_{36}):
    - If both TPH-DRO and TPH-ORO fractions contained detectable concentrations, the sum of the two concentrations were taken and considered as detected;

  - If one of the two concentrations was reported as a detectable concentration and the other concentration was below the reporting limit, the latter was replaced with half the reporting limit and the sum of the two concentrations was used and considered as detected; and
  - If both concentrations were below the reporting limits, the reporting limits were added and considered as not detected.

- All duplicate samples were averaged as follows:
  - If both samples contained detectable concentrations, the average of the two were taken and considered as detected;
  - If one of the samples contained a detected concentration and the other was below the reporting limit, the result below the reporting limit was replaced with half the reporting limit and average of the two were taken and considered as detected; and
  - If both samples had concentrations below the reporting limits, the average of two reporting limits was taken and the sample was considered as not detected.

- For metals in groundwater, results using total metal and dissolved metal analyses are available. Total metal results were considered and dissolved metal results were not considered. This is the conservative approach since total metal results are typically at higher concentrations than dissolved metal results.

Based on the above considerations, Tables 8-1(b) and 8-2(b) present the soil and groundwater data used for the RA. Further, Tables 8-1(c) and 8-2(c) present summary information for the soil and groundwater data used for the RA.

8.2 Identification of Chemicals of Potential Concern

To identify COPCs, the maximum detected concentration of each chemical that had at least one detected concentration was compared with its applicable screening level as discussed below.

8.2.1 Chemicals of Potential Concern in Soil

As described in Section 2.3.1, the screening levels for soil were obtained from the following sources:

- NMED SSLs for residential land use (NMED, 2012b);
- USEPA RSLs for residential land use (USEPA, 2012); and

- NMED Approved HAFB Background Levels (NMED, 2011).

For chemicals not listed in the NMED (2012b) and the USEPA (2012), SSLs for residential land use were developed per the methodology in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

Table 8-1(d) presents the comparison of maximum detected concentrations with screening levels for soil. The chemicals with the maximum detected concentrations greater than the screening levels were considered as COPCs. Based on this comparison, none of the maximum detected concentrations exceeded the screening levels. Therefore, no COPC in soil was identified.

8.2.2 Chemicals of Potential Concern in Groundwater

As described in Section 2.3.2, the screening levels for groundwater were obtained from the following sources:

- NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103);
- USEPA National Priority Drinking Water Regulation MCLs (USEPA, 2009);
- TPH Screening Guidelines in the *Risk Assessment Guidance for Investigations and Remediation* (NMED, 2012b); and
- NMED Approved HAFB Background Levels (NMED, 2011).

Table 8-2(d) presents the comparison of maximum detected concentrations with screening levels for groundwater. The chemicals with the maximum detected concentrations greater than the screening levels and the chemicals without screening levels were considered as COPCs. Based on this comparison, 34 COPCs in groundwater were identified. Table 8-3 summarizes the COPCs in groundwater.

8.3 Development of Exposure Model

This section presents the EM for the SS-18. The EM identifies the potential receptors and the exposure pathways under current and anticipated future conditions.

8.3.1 Receptors

The SS-18 site is located on the south side of Building 281 (Chrome Plating Shop) as shown on Figure 2-3. Therefore, a commercial/industrial worker is considered a receptor of concern under current conditions.

As discussed in Section 3.8 of this report, residential development at the HAFB is limited and future land use is not expected to differ significantly from current land use

practices; however, conservatively it was assumed that residential development at or near the SS-18 site could potentially occur. Therefore, a resident is considered a receptor of concern under future conditions. Additionally, in the future, construction activities may occur; hence, potential future construction workers are also considered a receptor of concern.

8.3.2 Exposure Pathways

Tables 8-4(a), 8-4(b), and 8-4(c) present the EMs for current commercial/industrial workers, future residents, and future construction workers, respectively.

For the current commercial/industrial worker, indoor inhalation of vapors from groundwater is considered a complete exposure pathway and was quantitatively evaluated.

For future residents, indoor inhalation of vapors from groundwater is considered a complete exposure pathway and was quantitatively evaluated.

For future construction workers, the following complete exposure pathways were quantitatively evaluated:

- Dermal contact with groundwater; and
- Outdoor inhalation of vapors from groundwater.

8.4 Calculation of Representative Concentrations

The representative concentrations for each of the COPCs and each pathway-receptor combination were estimated using the following methodology:

- For the indoor inhalation of vapors from groundwater by the current commercial/industrial worker and by the future resident, groundwater data from SS18-MW16, SS18-MW18, SS18-MW19, and S51-MW3 were used since these wells have the higher impact of volatile COPCs.
- For the dermal contact with and outdoor inhalation of vapors from groundwater for the construction worker, representative concentrations of groundwater were calculated using all the groundwater data collected.
- Non-detect concentrations were replaced with half the reporting limit for the calculation of representative concentrations.
- Representative concentrations were based on the arithmetic average concentrations.

The representative concentrations of groundwater for the current commercial/industrial

worker and the future resident are presented in Table 8-5(a). The representative concentrations of groundwater for the future construction worker are presented in Table 8-5(b).

8.5 Calculation of Risks

This section discusses the methodology used to calculate risk for the complete exposure pathways identified in Section 8.3 of this report. As per the EM discussed in Section 8.3, the risks were calculated for the current commercial/industrial worker, the future resident, and the future construction worker. Using the representative concentrations calculated in Section 8.4 and the target levels, the carcinogenic and non-carcinogenic risks of each COPC were calculated by taking the ratio of the representative concentration to the target level and multiplying the NMED's target risk levels of 1×10^{-5} for carcinogenic effects and 1.0 for non-carcinogenic effects. The development of target levels is discussed below.

8.5.1 Indoor Inhalation of Vapors from Groundwater

For this pathway, the target levels were calculated for the current commercial/industrial worker and the future resident. Since this pathway is not included in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b) and the *Regional Screening Level (RSL) Summary Table November 2012* (USEPA, 2012), the methodology as per the Johnson & Ettinger (J&E) model presented in the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (USEPA, 2004a) was used to calculate the target level.

This section describes the input parameters used to calculate the target levels for indoor inhalation of vapors from groundwater. The calculated target levels for the commercial/industrial worker and residents are presented in Tables 8-9(a) and 8-9(b), respectively. The target levels for this pathway were developed only for the volatile chemicals. As per the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b), a chemical was considered volatile if it's Henry's law constant (H) is 1×10^{-5} atmospheric-cubic meters per mole (atm-m^3/mol) (unitless H of 4.2×10^{-4}) or greater and it's molecular weight is 200 grams/mole or less. Using these criteria, of the 34 COPCs in groundwater, 19 COPCs were considered volatile.

The calculation of risk requires the following:

- Toxicity values;
- Physical and chemical properties;
- Exposure factors;
- Source parameters;
- Geotechnical parameters; and
- Building parameters.

Each of these is discussed below.

8.5.1.1 Toxicity Values

The toxicity of chemicals with carcinogenic and non-carcinogenic adverse health effects is quantified using unit risk and reference concentration respectively. The inhalation toxicity values for the volatile COPCs are presented in Table 8-6(a) and were obtained from the following sources:

- *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b);
- RSL Summary Table (USEPA, November 2012); and
- Texas Commission on Environmental Quality (TCEQ), 2012. Texas Risk Reduction Program Rule Tables.

Note that the USEPA (2012) followed the same hierarchy of human health toxicity values as recommended by the NMED (2012b). For the volatile COPCs which are included in the NMED guidance (2012b), toxicity values from the NMED (2012b) are the same as ones from the USEPA (2012).

As per Table 8-6(a), four volatile COPCs in groundwater (sec-butylbenzene, tert-butylbenzene, p-isopropyltoluene, and dibenzofuran) do not have inhalation toxicity values. These COPCs were detected in only two to four groundwater samples. In addition, tert-butylbenzene and dibenzofuran were not detected in any soil samples and sec-butylbenzene and p-isopropyltolune were detected in only one to two soil samples. Therefore, these COPCs were not further evaluated for this pathway.

8.5.1.2 Physical and Chemical Properties

The physical and chemical properties for COPCs are presented in Table 8-6(a) and were obtained from the same sources as the toxicity values. These values were used to run the USEPA spreadsheet implementation of the J&E model accessible at http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm.

8.5.1.3 Exposure Factors

The exposure factors for indoor inhalation of vapors from groundwater by the commercial/industrial worker and the resident are presented in Table 8-6(b).

The exposure factors were obtained from the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

8.5.1.4 Source Parameters

The following source parameters are required to evaluate indoor inhalation of vapors.

- **Average soil temperature:** The site-specific average groundwater temperature

is 24.8 °C at the SS-18 site. Therefore, the average groundwater temperature of 24.8 °C was considered as the approximate soil temperature at the site.

- **Depth below grade to water table:** As per Section 3.6.2 of this report, depth to groundwater at the SS-18 site is generally 3.5 to 7.7 ft bgs. An average depth to the water table of 5.6 ft bgs (171 centimeters [cm]) was used for the depth below grade to the top of contamination.
- **Thickness of capillary fringe zone:** As per Section 3.6.1 of this report, the vadose zone soil type at the SS-18 site is silty sand. Therefore, a value of 18.8 cm for loamy sand representative of silty sand was used as per the USEPA (2004a).

These parameters are presented in Table 8-6(c).

8.5.1.5 Geotechnical Parameters

The geotechnical parameters used are presented in Table 8-6(c). Specifically, the following geotechnical parameters are required to evaluate indoor inhalation of vapors from groundwater.

- Soil dry bulk density (ρ_b);
- Soil total porosity (n); and
- Soil water-filled porosity (θ_{wv}).

For the SS-18 site, the site-specific geotechnical parameters were analyzed for the vadose zone soil (see Table 6-5 in Appendix A of this report). However, default values for silty sand soil type as per the USEPA (2004a) were used for the following reason:

The estimated volumetric water-filled porosity exceeds the estimated total porosity as per the calculation below:

$$n = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.35}{1.85} = 0.27$$

$$\theta_{wv} = \theta_{wg} \times \frac{\rho_b}{\rho_l} = 0.222 - \frac{1.35}{1} = 0.3$$

where,

n = Total porosity (cubic centimeters per cubic centimeters [cm^3/cm^3]),

ρ_b = Soil dry bulk density (grams per cubic centimeter [g/cm^3]),

ρ_s = Soil specific gravity (unitless),

ρ_l = Water density (g/cm^3),

θ_{wv} = Volumetric water-filled porosity (cm^3/cm^3), and

θ_{wg} = Gravimetric water-filled porosity (grams per gram [g/g]).

These types of discrepancies are often observed at such sites due to significant

variability in the geotechnical parameters. Hence, default values of 1.62 g/cm^3, 0.39 cm^3/cm^3, and 0.351 cm^3/cm^3 were used for soil dry bulk density, total porosity, and water-filled porosity, respectively.

For the capillary fringe zone, it was assumed that the soil total porosity was the same as for the vadose zone and 90% of the soil total porosity was the soil water-filled porosity.

8.5.1.6 Building Parameters

The following building parameters are required to evaluate indoor inhalation of vapors:

- Depth below grade to bottom of enclosed space floor;
- Enclosed space floor thickness;
- Enclosed space floor length;
- Enclosed space floor width;
- Enclosed space height;
- Floor-wall seam crack width;
- Indoor air exchange rate; and
- Average vapor flow rate into building.

The building parameter values used and the source are presented in Table 8-6(c).

8.5.2 Dermal Contact with Groundwater

For this pathway, the target levels were calculated for the future construction worker. This section describes the procedure used to calculate the target levels for the dermal contact with groundwater by construction workers as per the *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual Part E Supplemental Guidance for Dermal Risk Assessment* (USEPA, 2004b). The calculated target levels for the construction worker are presented in Table 8-9(c).

The calculation of target levels requires the following:

- Toxicity parameters;
- Chemical-specific parameters for dermal contact with water; and
- Exposure factors.

Each of these is discussed below.

8.5.2.1 Toxicity Values

Dermal toxicity values are not as readily available as ingestion values; therefore, these values were calculated as follows per the *Risk Assessment Guidance for Superfund*

Volume I: Human Health Evaluation Manual, Part E Supplemental Guidance for Dermal Risk Assessment (USEPA, 2004b):

$$SF_d = \frac{SF_o}{ABS_{GI}}$$

$$RfD_d = RfD_o \times ABS_{GI}$$

where,

- SF_o = Slope factor for oral exposure (milligrams per kilogram per day [mg/kg-day])$^{-1}$,
- RfD_o = Reference dose for oral exposure (mg/kg-day),
- SF_d = Slope factor for dermal exposure (mg/kg-day)$^{-1}$,
- RfD_d = Reference dose for dermal exposure (mg/kg-day), and
- ABS_{GI} = Fraction of contaminants absorbed in gastrointestinal tract (dimensionless).

The above approach is consistent with the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b). The dermal toxicity values are presented in Table 8-7(a).

8.5.2.2 Chemical-Specific Parameters for Dermal Contact with Water

The development of target levels requires chemical-specific parameters for dermal contact pathways. The chemical-specific parameters for dermal contact pathways are presented in Table 8-7(a).

8.5.2.3 Exposure Factors

The exposure factors for dermal contact with groundwater for a construction worker and the source of these parameters are presented in Table 8-7(b).

8.5.3 Outdoor Inhalation of Vapors from Groundwater

For this pathway, the target levels were calculated for the future construction worker. This section describes the procedure used to calculate the target levels for the outdoor inhalation of vapors from groundwater as per the *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites* (ASTM International [ASTM], 1995). The target levels for this pathway were developed only for the volatile chemicals. The calculated target levels for the construction worker are presented in Table 8-9(c).

Specifically, the calculation of target levels requires the following:

- Toxicity parameters;
- Physical and chemical properties;
- Exposure factors; and
- Fate and transport parameters.

Each of these is discussed below

8.5.3.1 Toxicity Values

As discussed in Section 8.5.1.1, the inhalation toxicity values for COPCs are presented in Table 8-8(a).

8.5.3.2 Physical and Chemical Properties

The physical and chemical properties for COPCs are presented in Table 8-8(a).

8.5.3.3 Exposure Factors

The exposure factors for outdoor inhalation of vapors from groundwater by construction workers and the source of the values are presented in Table 8-8(b).

8.5.3.4 Fate and Transport Parameters

The fate and transport parameters for outdoor inhalation of vapors from groundwater are presented in Table 8-8(c).

8.6 Calculation of Cumulative Risks

The risk to human health was calculated for each COPC, for each complete exposure pathway, and for each receptor. The cumulative risk for each receptor, i.e., sum of risks for all chemicals and for all complete exposure pathways, was compared with target risks. The following are the target risks for each receptor:

- For potential carcinogenic health effects, the cumulative individual excess lifetime cancer risk (IELCR) for each receptor of 1×10^{-5}; and
- For potential non-carcinogenic health effects, the cumulative hazard index (HI) for each receptor of 1.0.

These target risks are consistent with the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012b).

For the SS-18 site, the current commercial/industrial worker, the future resident, and the future construction worker are receptors of concern. The calculated cumulative risks for the current commercial/industrial worker, the future resident, and the future construction worker are presented in Tables 8-9(a), 8-9(b), and 8-9(c), respectively.

The results indicate:

- For the current commercial/industrial worker,
  - Cumulative IELCR for carcinogenic effects is 5.0×10^{-7}, which is below the acceptable target risk level of 1×10^{-5}.
  - Cumulative HI for non-carcinogenic effects is 0.056, which is below the acceptable target risk level of 1.0.
- For the future resident,
  - Cumulative IELCR for carcinogenic effects is 4.7×10^{-6}, which is below the acceptable target risk level of 1×10^{-5}.
  - Cumulative HI for non-carcinogenic effects is 0.44, which is below the acceptable target risk level of 1.0.
- For the future construction worker,
  - Cumulative IELCR for carcinogenic effects is 1.7×10^{-6}, which is below the acceptable target risk level of 1×10^{-5}.
  - Cumulative HI for non-carcinogenic effects is 0.15, which is below the acceptable target risk level of 1.0.

Based on the above, the current residual concentration of soil and groundwater are protective of current commercial/industrial worker, future resident, and future construction worker.

8.7 Uncertainty Analysis

As in any RA, the estimated carcinogenic and non-carcinogenic risks contain several sources of uncertainties. However, the general approach used in this RA has been to use conservative assumptions regarding exposure estimates, so that the estimated carcinogenic and non-carcinogenic risks represent an upper bound estimate of the risk. The following sections present the inherent sources of uncertainty and conservative assumptions used in this RA.

8.7.1 Inherent Sources of Uncertainty

The RA process is designed to provide a conservative estimate or evaluation of risks to human health. However, some degree of uncertainty is inherent to the process. Sources of uncertainty typically relate to seven areas:

- Site characterization;
- COPCs;

- Representative concentration;
- Exposure evaluation;
- Toxicity values;
- Physical and chemical properties; and
- Fate and transport parameters and models.

Inherent sources of uncertainty relating to the site characterization include:

- Field sampling location bias (sample locations were biased toward areas of highest contamination) and likely overestimation of risks.

- No consideration for source depletion, natural degradation, or attenuation of chemicals over time which is a conservative approach.

Inherent sources of uncertainty relating to the COPCs include:

- Consideration of 18 constituents in groundwater without groundwater screening levels as COPCs which is a conservative approach.

Inherent sources of uncertainty relating to the representative concentrations include:

- Use of current concentrations for future resident and future construction worker. This would overestimate the future risks since the concentrations would decrease due to natural attenuation processes.

Inherent sources of uncertainty relating to the exposure evaluation include:

- Assumption of frequent or routine exposure over prolonged durations, for example, the assumption that a resident stays at the same location for 30 years. This would likely overestimate the risks.

- Assumption that some pathways are negligible in comparison to others (e.g., outdoor inhalation of vapors from groundwater by current commercial/industrial worker and future resident were not quantitatively evaluated since indoor inhalation of vapors from groundwater was evaluated). This would likely underestimate the cumulative risk.

Inherent sources of uncertainty relating to the toxicity values include:

- Use of reference dose and slope factor derived by conservative methods. For example, animal testing is typically performed at very high doses and the information is used to extrapolate to humans. To compensate for lack of sufficient and detailed information regarding the human toxicity of these chemicals, USEPA typically makes substantial conservative assumptions that result in very conservative quantitative toxicity values (slope factor and reference dose).

- Derivation of dermal toxicity values from ingestion toxicity values.

- Chemicals without toxicity values. For example, indoor inhalation of vapors from groundwater by resident was not evaluated for sec-butylbenzene, tert-butylbenzene, p-isopropyltoluene, and dibenzofuran. However, these chemicals were detected in only two to four groundwater samples. Therefore, the underestimation of risks may not be significant.

The above first and second sources associated with toxicity values may not estimate the true health effects of COPCs. However, typically the toxicity values are based on very conservative assumptions that result in an overestimate of the risks.

Inherent sources of uncertainty relating to the physical and chemical properties include:

- Derivation of physical and chemical properties based on a single chemical which does not consider the effects of presence of multiple chemicals. This would overestimate the risks because the presence of multiple chemicals reduces volatility and solubility.

Inherent sources of uncertainty relating to the fate and transport parameters and models include:

- Assumption of an infinite non-depleting source which is conservative.

8.7.2 Overall Impact of Uncertainties

As discussed above, there are numerous sources of uncertainty in the parameters used to calculate the potential risks. The above discussion indicates that the risks have been estimated using generally conservative assumptions for most of sources; therefore, overall the risks have been overestimated.

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9 CONCLUSIONS AND RECOMMENDATIONS

Site specific analytical results from soil samples collected at Site SS-18 during the ACM (2007), ACM Addendum (2009), or the SACM (2012) investigations did not contain any VOCs, SVOCs, TPH, PCBs, or RCRA metals in excess of the current SSLs. However, the groundwater at Site SS-18 has been impacted with 1,1-DCA, 1,1-DCE, cis-1,2-DCE, PCE, and TCE above applicable action levels. The SS-18 groundwater data collected in 2007, 2009 and 2012 indicated that biodegradation is occurring but it was unclear if there is a potential for complete biodegradation.

To investigate the potential for biodegradation, a compound specific isotope analysis (CSIA) was conducted for CVOC contamination. In December 2012, NationView collected groundwater samples from seven Site SS-18 monitoring wells and submitted them to Microseeps, Inc, for analysis of 1,1-DCA, 1,1-DCE, cis-1,2-DCE, PCE, TCE, 1,1,1-TCA, vinyl chloride (VC), and dissolved methane, ethane, and ethene. Compound specific isotope analysis is an analytical method that measures the ratios of naturally occurring stable isotopes in groundwater samples and can be used to determine potential contaminant sources and the extent of degradation. The following narrative provides a brief summary of the CSIA study and findings. The complete SS-18 CSIA Report, Holloman Air Force Base (Microseeps, 2013) is presented in Attachment B.

In order to evaluate the potential for biodegradation, groundwater samples were collected along two transects (A and B) each parallel to the direction of groundwater flow extending from the origin to the distal edge of the CVOC plumes identified in Figure 7-3. Transect A includes SS18-MW05, SS18-MW16, and SS18-MW18, and the B transect includes SS18-MW04, SS18-MW08, SS18-MW19, and S51-MW3. The wells in each transect are hydraulically downgradient of the one before it.

In summary, the CSIA study provides evidence regarding the slow biodegradation of 1,1,1-TCA along both transects and PCE/TCE along transect B. The active mechanisms appear to be a mix of reductive dechlorination and biological oxidation. A review of the historical CVOC concentrations shows little change over approximately five years (2007 through 2012). In addition, the isotopic results presented in the SS-18 CSIA Report (Microseeps, 2013) suggest that there is not a single source for the observed groundwater contamination but multiple small sources. Furthermore, the subsurface soil data collected in 2007, 2010, and 2012 have not determined a CVOC source area(s) in the vicinity of the impacted groundwater which agrees with the conclusions presented in the CSIA Report. The groundwater flow at SS-18 is less than 20 feet/year and the TDS concentrations from six monitoring wells located throughout the SS-18 monitoring well network exceeded 10,000 mg/L, therefore this aquifer is classified by the USEPA as a Class III B aquifer which is designated as unfit for human consumption (USEPA, 1986). Due to this classification, the groundwater exposure pathway at SS-18 is considered incomplete.

As a result of the CVOC (1,1-DCA, 1,1-DCE, cis-1,2-DCE, PCE, and TCE) and TAL metal (aluminum, antimony, arsenic, cobalt, manganese, and thallium) exceedences above USEPA MCLs and/or NMWQCC standards detected in groundwater, a risk assessment was performed for current commercial/industrial workers, future residents, and future construction workers. The risk to human health was calculated for each COPC, for each complete exposure pathway, and for each receptor. The cumulative risk for each receptor (i.e., the sum of risks for all chemicals and for all complete exposure pathways) was compared with target risks. The cumulative risk for each potential receptor was found to be less than the target risk level for each potential receptor. Therefore, the current residual concentration of COPCs in groundwater at Site SS-18 (AOC-H) are protective of current commercial/industrial workers, future residents, and future construction workers. Furthermore, none of the maximum detected concentrations of soil contaminants exceeded screening levels therefore; no COPCs in soil were identified.

Based upon the soil and groundwater laboratory analytical results and the site specific human health risk-based evaluation; No Further Action is recommended for site SS-18 (AOC-H) at Holloman Air Force Base, New Mexico. NFA for Site SS-18 is based upon NMED Closure Criterion #5 which states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

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TABLES

Table 3-1
Groundwater Wells
Located within a 4-Mile Radius
of Holloman Air Force Base
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman AFB, New Mexico

Well Identification Number	Use	NAD 83 UTM (meters)		Well Depth (feet)
		Northing	Easting	
T 00078	Commercial	398468	3648755	428
T 00868	Domestic	400972	3650377	215
T 03794	Irrigation	403280	3651057	250
T 04855	Domestic	403784	3651965	235
T 04967	Domestic	403480	3652067	200
T 00518	Domestic	405819	3646323	305
T 00518 S	Domestic	405819	3646323	220
T 00614	Domestic	404503	3646838	245
T 00995	Domestic	405824	3646730	308
T 01868	Domestic	405824	3646730	280
T 02650	Domestic	405619	3646523	265
T 03230	Domestic	403699	3647252	160
T 04728	Domestic	404503	3646838	216
T 05079 POD1	Domestic	401365	3646757	406
T 01167	Livestock	404993	3644302	170
T 01235	Irrigation	404995	3644706	200
T 03062	Commercial	403678	3644412	295
T 03455	Domestic	403365	3644318	150
T 03483	Domestic	402565	3644318	140
T 03934	Commercial	403578	3644915	160
T 05201 POD1	Irrigation	403380	3644374	295
T 05202 POD1	Irrigation	403381	3644374	250
T 00146	Livestock	402960	3642700	110
T 03245	Commercial	406609	3643887	190
T 04228	Domestic	405295	3643589	180
T 04386 S-6	Commercial	404903	3640666	290
T 04386 S-9	Commercial	404895	3640673	320
T 00172 S	Irrigation	406088	3640755	125
T 00776	Irrigation	406391	3640650	120
T 00782	Domestic	406187	3640854	120
T 00818	Irrigation	406391	3640650	125
T 02431	Domestic	405987	3640654	152
T 03909	Livestock	404765	3639453	140
T 04386 S	Commercial	404886	3638830	290
T 04386 S-2	Commercial	404888	3638830	310
T 04386 S-3	Commercial	404886	3638837	300
T 04386 S-4	Commercial	404886	3638841	295
T 04386 S-5	Commercial	404903	3640661	310
T 03147	Domestic	406380	3638633	135
T 04080	Domestic	406481	3638734	170
T 03228	Domestic	404290	3637226	160
T 00347	Domestic	403131	3634704	182
T 00972	Domestic	404882	3636009	150
T 01602	Domestic	406510	3635592	135
T 05041 POD1	Domestic	406205	3635697	200
T 01012	Commercial	401072	3634316	72
T 01277	Commercial	404434	3633172	104
T 01327	Commercial	400958	3633604	90
T 01526	Commercial	401368	3633601	152
T 01623	Domestic	400743	3633202	260

Source: New Mexico Water Rights Reporting System database, 2009
Notes:
NAD - North American Datum
UTM - Universal Transverse Mercator

Table 3-2
Survey Data and Groundwater Elevation Summary (August 2012)
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Site	Well	Northing	Easting	Elevation TOC (ft above msl)	DTW from TOC (ft below TOC)	Groundwater Elevation August 29, 2012 (ft above msl)
SS-18	SS18-MW02	671135.388	1692158.976	4077.594	7.63	4,069.964
	SS18-MW03	671005.247	1692074.775	4074.395	5.65	4,068.745
	SS18-MW04	671060.143	1692020.331	4075.111	6.28	4,068.831
	SS18-MW05	671267.576	1692066.568	4076.159	5.08	4,071.079
	SS18-MW06	671250.258	1692237.183	4078.745	7.70	4,071.045
	SS18-MW07	671232.186	1691939.095	4075.032	4.51	4,070.522
	SS18-MW08	671027.264	1691995.371	4074.259	5.38	4,068.879
	SS18-MW09	671312.003	1691942.341	4076.479	5.59	4,070.889
	SS18-MW10	671338.229	1691952.931	4077.123	5.96	4,071.163
	SS18-MW11	671443.009	1692079.395	4078.088	5.86	4,072.228
	SS18-MW12	671415.193	1692128.043	4078.262	6.00	4,072.262
	SS18-MW13	671497.299	1692145.906	4078.955	6.02	4,072.935
	SS18-MW14	671432.328	1692206.935	4079.425	6.81	4,072.615
	SS18-MW15	671245.965	1691844.741	4074.223	4.40	4,069.823
	SS18-MW16	670987.556	1691748.860	4073.703	5.47	4,068.233
	SS18-MW17	670964.402	1692177.892	4076.413	7.03	4,069.383
	SS18-MW18	670850.933	1691611.447	4072.659	5.19	4,067.469
	SS18-MW19	670855.070	1691860.524	4074.082	5.83	4,068.252
	SS18-MW20	670862.929	1692003.347	4073.688	5.01	4,068.678
	SS18-MW21	670580.212	1691929.689	4073.884	5.95	4,067.934
	SS18-MW22	671394.791	1692014.096	4076.844	5.04	4,071.804
	SS18-MW23	671652.708	1691875.838	4077.814	4.81	4,073.004
	SS18-MW24	671625.272	1692080.592	4079.267	5.65	4,073.617
	SS18-MW25	670931.096	1691524.847	4072.683	5.03	4,067.653
	SS18-MW26	670793.580	1691424.336	4070.712	3.51	4,067.202
	SS18-MW27	670645.781	1691339.967	NA	5.62	NA
	SS18-MW28	670522.571	1691697.023	4070.884	4.25	4,066.634
	SS18-MW29	670316.022	1691035.294	4071.226	7.16	4,064.066
	SS18-MW30	670218.249	1691171.037	4070.415	6.54	4,063.875
OT-45	S51-MW1	670457.310	1691277.000	4072.086	6.92	4,065.166
	S51-MW3	670537.310	1691490.000	4071.622	5.67	4,065.952
	S51-MW4	670249.310	1691336.000	4071.465	6.89	4,064.575
	S51-MW5	670318.310	1691413.000	4070.851	5.82	4,065.031
	S51-MW7	670339.310	1691209.000	4070.455	5.99	4,064.465

Notes:
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
SS18 = Spill Site SS-18 (Chromic Acid Spill Site)
OT45 = Old AGE Refueling Station Site
MW = Monitoring Well
NA = Not available

Table 3-3
Monitoring Well Construction Details (2012)
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Site	Well Identification	Installation Date	Project Phase	Sampled 2012	Diameter (inches)	Screen Interval (ft bgs)	Depth to Water (ft below TOC)	Total depth (feet)	Status
SS-18	18-W1	9/25/1994	IRP- Phase II	0	2	11.5 - 21.5	N/A	21.5	Inactive
	SS18-MW02	6/5/2007	ACM	1	1	4.2 - 14.2	7.63	14.2	Active
	SS18-MW03	6/6/2007	ACM	1	1	4.9 - 14.9	5.65	14.9	Active
	SS18-MW04	6/6/2007	ACM	1	1	4.2 -14.2	6.28	14.2	Active
	SS18-MW05	10/16/2007	ACM	1	2	3.5 - 13.5	5.08	14.0	Active
	SS18-MW06	10/17/2007	ACM	1	2	4.5 - 14.5	7.70	15.0	Active
	SS18-MW07	10/17/2007	ACM	1	2	4.5 - 14.5	4.51	15.0	Active
	SS18-MW08	10/17/2007	ACM	1	2	4.5 - 14.5	5.38	15.0	Active
	SS18-MW09	8/20/2009	ACM Addendum	1	1	4.75 - 14.75	5.59	15.0	Active
	SS18-MW10	8/19/2009	ACM Addendum	1	1	4.75 - 14.75	5.96	15.0	Active
	SS18-MW11	8/18/2009	ACM Addendum	1	1	4.75 - 14.75	5.86	15.0	Active
	SS18-MW12	8/18/2009	ACM Addendum	1	1	4.75 - 14.75	6.00	15.0	Active
	SS18-MW13	8/18/2009	ACM Addendum	1	1	4.75 - 14.75	6.02	15.0	Active
	SS18-MW14	8/19/2009	ACM Addendum	1	1	4.75 - 14.75	6.81	15.0	Active
	SS18-MW15	8/20/2009	ACM Addendum	1	1	3.75 - 13.75	4.40	14.0	Active
	SS18-MW16	8/20/2009	ACM Addendum	1	1	4.75 - 14.75	5.47	15.0	Active
	SS18-MW17	8/22/2009	ACM Addendum	1	1	4.75 - 14.75	7.03	15.0	Active
	SS18-MW18	8/21/2009	ACM Addendum	1	1	4.75 - 14.75	5.19	15.0	Active
	SS18-MW19	8/21/2009	ACM Addendum	1	1	4.75 - 14.75	5.83	15.0	Active
	SS18-MW20	8/21/2009	ACM Addendum	1	1	4.75 - 14.75	5.01	15.0	Active
	SS18-MW21	8/21/2009	ACM Addendum	1	1	4.75 - 14.75	5.95	15.0	Active
	SS18-MW22	8/19/2009	ACM Addendum	1	1	4.75 - 14.75	5.04	15.0	Active
	SS18-MW23	8/16/2012	SACM	1	2	4.75 - 14.75	4.81	15.0	Active
	SS18-MW24	8/16/2012	SACM	1	2	4.75 - 14.75	5.65	15.0	Active
	SS18-MW25	8/17/2012	SACM	1	2	4.75 - 14.75	5.03	15.0	Active
	SS18-MW26	8/18/2012	SACM	1	2	4.75 - 14.75	3.51	15.0	Active
	SS18-MW27	8/17/2012	SACM	1	2	4.75 - 14.75	5.62	15.0	Active
	SS18-MW28	8/17/2012	SACM	1	2	4.75 - 14.75	4.25	15.0	Active
	SS18-MW29	8/17/2012	SACM	1	2	4.75 - 14.75	7.16	15.0	Active
	SS18-MW30	8/17/2012	SACM	1	2	4.75 - 14.75	6.54	15.0	Active
OT-45	S51-MW1	3/27/1988	RI	1	2	2.0 - 17.0	6.92	18.0	Active
	S51-MW3	3/24/1988	RI	1	2	2.0 - 17.0	5.67	18.0	Active
	S51-MW4	3/22/1988	RI	1	2	2.0 - 17.0	6.89	18.0	Active
	S51-MW5	3/22/1988	RI	1	2	2.0 - 17.0	5.82	18.0	Active
	S51-MW7	1/22/1989	RI	1	2	3.0 - 18.0	5.99	18.0	Active

Notes:
ft bgs - Feet below ground surface
ft below TOC - Feet below Top of Casing (based on August 29, 2012, groundwater elevation)
N/A = Not applicable (inactive well)
SS18 = Spill Site SS-18 (Chromic Acid Spill Site)
MW = Monitoring Well

IRP = Installation Restoration Program
ACM = Accelerated Corrective Measures
SACM = Supplemental Accelerated Corrective Measures
RI = Remedial Investigation

Table 5-1
SACM Sampling and Analysis Summary (2012)
SS-18 Accelerated Corrective Measures Report
Holloman Air Force Base, New Mexico

Sample Identification	Sample Location	Sample Depth (ft bgs)	Sample Type	Collection Date	VOCs (USEPA SW846 Method 8260B)	SVOCs (USEPA SW846 Method 8270D)	TPH (USEPA SW846 Method 8015C)	TAL Metals (USEPA SW846 Methods 6010C/7471B/7470A)	PCBs (USEPA SW846 Method 8082A)	TDS (SM19 2540C)	Moisture Content (SM19 2540G)
Soil Samples											
SS18-DP24-10	SS-18	9.0 - 10.0	VOC Source Area Delineation Soil Sample	8/14/2012	X	X	X	X	X	NA	X
SS18-DP25-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP26-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/14/2012	X	X	X	X	X	NA	X
SS18-DP27-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP28-7	SS-18	6.0 - 7.0	VOC Source Area Delineation Soil Sample	8/14/2012	X	X	X	X	X	NA	X
SS18-DP29-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP30-11	SS-18	10.0 - 11.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP31-11	SS-18	10.0 - 11.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP31-11-A	SS-18	10.0 - 11.0	VOC Source Area Delineation Soil Sample- Duplicate	8/15/2012	X	X	X	X	X	NA	X
SS18-DP32-12	SS-18	11.0 - 12.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP33-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP33-8-A	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample- Duplicate	8/15/2012	X	X	X	X	X	NA	X
SS18-DP34-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/16/2012	X	X	X	X	X	NA	X
SS18-DP35-5	SS-18	4.0 - 5.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP36-7	SS-18	6.0 - 7.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP37-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/15/2012	X	X	X	X	X	NA	X
SS18-DP38-8	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample	8/16/2012	X	X	X	X	X	NA	X
SS18-DP38-8-A	SS-18	7.0 - 8.0	VOC Source Area Delineation Soil Sample- Duplicate	8/16/2012	X	X	X	X	X	NA	X
SS18-DP39-8	SS-18	7.0 - 8.0	Upgradient Soil Sample	8/14/2012	X	X	X	X	X	NA	X
SS18-DP40-8	SS-18	7.0 - 8.0	Upgradient Soil Sample	8/14/2012	X	X	X	X	X	NA	X
SS18-DP41-7	SS-18	6.0 - 7.0	Upgradient Soil Sample	8/17/2012	X	X	X	X	X	NA	X
SS18-DP42-5	SS-18	4.0 - 5.0	Upgradient Soil Sample	8/16/2012	X	X	X	X	X	NA	X
SS18-DP43-5	SS-18	4.0 - 5.0	Upgradient Soil Sample	8/16/2012	X	X	X	X	X	NA	X
SS18-DP44-7	SS-18	6.0 - 7.0	Downgradient Soil Sample	8/16/2012	X	X	X	X	X	NA	X
SS18-DP45-8	SS-18	7.0 - 8.0	Downgradient Soil Sample	8/17/2012	X	X	X	X	X	NA	X
SS18-DP46-8	SS-18	7.0 - 8.0	Downgradient Soil Sample	8/17/2012	X	X	X	X	X	NA	X
Groundwater Samples											
SS18-MW02	SS-18	NA	Cross-gradient Monitoring Well	9/13/12	X	X	X	X	X	X	NA
SS18-MW03	SS-18	NA	Downgradient Monitoring Well	9/14/12	X	X	X	X	X	X	NA
SS18-MW04	SS-18	NA	Monitoring Well Adjacent to SS18	9/14/2012 - 9/17/2012	X	X	X	X	X	X	NA
SS18-MW05	SS-18	NA	Upgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
SS18-MW06	SS-18	NA	Upgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
SS18-MW07	SS-18	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW08	SS-18	NA	Downgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW08-A	SS-18	NA	Downgradient Monitoring Well - Duplicate	9/10/2012	X	X	X	X	X	X	NA
SS18-MW09	SWMU 9	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW10	SWMU 9	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW11	SWMU 10	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW12	SWMU 85	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW13	SWMU 85	NA	Upgradient Monitoring Well	9/12/2012 - 9/14/2012	X	X	X	X	X	X	NA
SS18-MW14	SWMU 85	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW15	SS-18	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW16	SS-18	NA	Downgradient Monitoring Well	9/13/2012	X	X	X	X	X	X	NA
SS18-MW17	SS-18	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
SS18-MW18	SS-18	NA	Downgradient Monitoring Well	9/13/2012	X	X	X	X	X	X	NA
SS18-MW19	SS-18	NA	Downgradient Monitoring Well	9/13/2012 - 9/14/2012	X	X	X	X	X	X	NA
SS18-MW20	SS-18	NA	Downgradient Monitoring Well	9/14/2012 - 10/1/2012	X	X	X	X	X	X	NA
SS18-MW21	SS-18	NA	Downgradient Monitoring Well	9/13/2012	X	X	X	X	X	X	NA
SS18-MW22	SWMU 9/10	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW22-A	SWMU 9/10	NA	Upgradient Monitoring Well - Duplicate	9/11/2012	X	X	X	X	X	X	NA
SS18-MW23	SS-18	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW24	SS-18	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW25	SS-18	NA	Upgradient Monitoring Well	9/10/2012	X	X	X	X	X	X	NA
SS18-MW26	SS-18	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW27	SS-18	NA	Upgradient Monitoring Well	9/11/2012	X	X	X	X	X	X	NA
SS18-MW28	SS-18	NA	Downgradient Monitoring Well	9/13/2012	X	X	X	X	X	X	NA
SS18-MW29	SS-18	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
SS18-MW30	SS-18	NA	Downgradient Monitoring Well	9/13/2012	X	X	X	X	X	X	NA
SS18-MW30-A	SS-18	NA	Downgradient Monitoring Well - Duplicate	9/13/2012	X	X	X	X	X	X	NA
S51-MW1	OT-45	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
S51-MW3	OT-45	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
S51-MW3-A	OT-45	NA	Downgradient Monitoring Well - Duplicate	9/12/2012	X	X	X	X	X	X	NA
S51-MW4	OT-45	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
S51-MW5	OT-45	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA
S51-MW7	OT-45	NA	Downgradient Monitoring Well	9/12/2012	X	X	X	X	X	X	NA

Notes:
ft bgs = feet below ground surface
VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound
TPH = Total Petroleum Hydrocarbons
TAL = Target Analyte List
SWMU = Solid Waste Management Unit
SS18 = Spill Site 18 (Chromic Acid Spill Site)
DP = Direct Push Soil Sample
MW = Monitoring Well
A = Sample suffix denoting a duplicate sample
SW846 = USEPA Office of Solid Waste
NA = Not Applicable
USEPA = U.S. Environmental Protection Agency
TDS = Total Dissolved Solids
SM = Standard Method

Table 7-1
SACM Soil Analytical Results (August 2012)
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP24-10			SS18-DP25-8			SS18-DP26-8			SS18-DP27-8			SS18-DP28-7			SS18-DP29-8			SS18-DP30-11			SS18-DP31-11			SS18-DP31-11-A		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Levels [2]	F95903-1			F96005-2			F95948-1			F96005-1			F95948-2			F95948-3			F95948-4			F95949-1			F95949-2		
Date Sampled:			8/14/2012			8/15/2012			8/14/2012			8/15/2012			8/14/2012			8/15/2012			8/15/2012			8/15/2012			8/15/2012		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	66,600	NV	20	U		22	U		19	U		24	U		21	U		21	U		19	U		20	U		22	U	
n-Butylbenzene	3,900 [4]	NV	1.3	U		1.5	U		1.3	U		1.6	U		1.4	U		1.3	U		1.2	U		1.3	U		1.5	U	
sec-Butylbenzene	NV [5]	NV	1.6	U		1.8	U		1.6	U		1.9	U		1.7	U		1.7	U		1.5	U		1.6	U		1.8	U	
Carbon disulfide	1,530	NV	2.0	U		2.2	U		1.9	U		2.4	U		2.1	U		2.1	U		1.9	U		2.0	U		2.2	U	
1,1-Dichloroethane	64.5	NV	1.1	U		1.2	U		1.1	U		2.8	J		6.3		J	5.5			7.7			2.7	J		2.5	J	
1,1-Dichloroethylene	449	NV	1.4	U		1.6	U		1.4	U		10.9			25.8		J	4.4	J		3.1	J		17.4			18.2		
cis-1,2-Dichloroethylene	156	NV	1.5	U		1.7	U		1.5	U		1.8	U		1.6	U		1.6	U		2.9	J		1.5	U		1.7	U	
Isopropylbenzene	2,430	NV	1.1	U		1.2	U		1.1	U		1.3	U		1.2	U		1.1	U		1.0	U		1.1	U		1.2	U	
Tetrachloroethylene	7.02	NV	0.98	U		1.1	U		0.97	U		1.2	U		21.7		J	1.0	U		94.9			2.6	J		1.1	U	
Toluene	5,270	NV	1.2	U		1.3	U		1.2	U		1.5	U		1.3	U		1.2	U		1.1	U		1.2	U		1.3	U	
Trichloroethylene	8.77	NV	1.2	U		1.3	U		1.2	U		1.5	U		4.2	J	J	1.2	U		9.6			1.2	U		1.3	U	
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All SVOCs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	3.5	U		3.4	U		3.3	U		4.2	U		3.8	U		3.6	U		2.9	U		3.6	U		3.9	U	
Diesel Range Organics (C10-C22)	1,000 [6]	NV	4.4	U		4.2	U		11.5		J	4.7	U		4.5	U		4.4	U		4.0	U		4.3	U		4.9	U	
Oil Range Organics (>C22-C36)	1,000 [6]	NV	4.4	U		4.2	U		65.0			4.7	U		4.5	U		4.4	U		4.0	U		4.3	U		4.9	U	
PCBs	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	3,240		J	5,820			3,200		J	3,480			5,810		J	3,980		J	5,130		J	6,300		J	503		J
Antimony	31.3	1.6	1.4	J	J	1.2	U		1.1	U		1.0	U		1.2	J	J	1.0	U		1.1	U		0.95	U		1.1	U	
Arsenic	3.9	3.7	2.9	J		1.9	J		1.6	J		1.7	J		1.9	J		1.9	J		2.2	J		**4.4**		J	2.1	J	J
Barium	15,600	169.3	34.6	J		56.4	J		53.4			28.6	J		51.2			47.4	J		27.8	J		62.0		J	13.1	J	J
Beryllium	156	1.6	0.47	U		0.30	U		0.26	U		0.25	U		0.29	J		0.25	U		0.30	J		0.26	J		0.28	U	
Calcium	NV [5]	317,332	193,000			171,000		J	217,000		J	157,000		J	193,000		J	189,000		J	148,000		J	139,000		J	233,000		J
Chromium	117,000	25	4.5	J		5.6	J		5.8		J	3.0	J		6.1		J	3.1	J	J	4.5	J	J	4.7	J	J	0.57	U	
Cobalt	23 [4]	7.7	1.1	J		1.7	J		1.1	J		1.1	J		1.7	J		1.2	J		1.6	J		4.5	J		0.28	U	
Copper	3,130	13	2.5	J		2.4	J		3.5	J		1.5	J		2.8	J		3.7	J		2.8	J		4.2	J		2.6	J	
Iron	54,800	23,049	3,590		J	5,210			3,060		J	2,920			4,910		J	2,850		J	4,510		J	5,480		J	322		J
Lead	400	10.9	2.2	J		0.60	U		1.6	J		0.51	U		2.8	J		2.1	J		2.1	J		2.3	J		0.57	U	
Magnesium	NV [5]	16,991	2,480			3,520		J	3,990		J	2,890		J	4,820		J	3,610		J	6,730		J	3,840		J	4,590		J
Manganese	1,860	393	87.5			71.0			84.9		J	37.4			73.5		J	54.2		J	39.4		J	378		J	7.9		J
Nickel	1,560	17.4	3.0	J		5.0	J		3.5	J		2.5	J		5.3	J		3.0	J		4.4	J		8.3	J	J	0.80	J	J
Potassium	NV [5]	5,077	854	J		1,330	J		772	J	J	880	J		1,320	J	J	883	J	J	1,100	J	J	1,450	J	J	164	J	J
Sodium	NV [5]	5,196	520	U		330	U		290	U		1,350	J	J	2,030	J	J	280	U		883	J	J	1,330	J	J	310	U	
Vanadium	391	42.6	10.9	J		13.3	J		8.9	J		9.2	J		13.5			14.6			16.3			14.9			12.4	J	
Zinc	23,500	54.6	12.2			11.3	J	J	12.4			7.0	J	J	13.4			20.0			10.8	J		12.9			2.8	U	
General Chemistry	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	75.6			78.8			80.4			71.0			73.9			75.9			82.4			76.2			68.0		

Notes:
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
SVOC = Semi-Volatile Organic Compounds
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
% = percent
Q = Laboratory Qualifier
Q1 = Valadating Chemist Qualifier
Qualifiers
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature
SS18 = Chromic Acid Spill Site
DP = Direct Push Soil Sample
A = Sample suffix denoting a field duplicate sample
Final digit(s) equals the ending depth of the sample interval

[1] Table A-1, NMED Residential Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (November 2012)
[5] No Value established for NMED Residential SSL (June 2012) and USEPA RSL (November 2012)
[6] Table 6-3, TPH Screening Guidelines for Unknown oil, Residential Direct Exposure. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June 2012) or TPH results above NMED TPH Screening Guidelines
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Unknown oil, Residential Direct Exposure, Table 6-3)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL

Table 7-1
SACM Soil Analytical Results (August 2012)
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP32-12			SS18-DP33-8			SS18-DP33-8-A			SS18-DP34-8			SS18-DP35-5			SS18-DP36-7			SS18-DP37-8			SS18-DP38-8			SS18-DP38-8-A		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Levels [2]	F96005-3			F95948-5			F95949-3			F96004-1			F96003-1			F96003-2			F95949-4			F96004-4			F96004-5		
Date Sampled:			8/15/2012			8/15/2012			8/15/2012			8/16/2012			8/15/2012			8/15/2012			8/15/2012			8/16/2012			8/16/2012		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	66,600	NV	20	U		22	U		21	U		19	U		22	U		24.8	J	J	22	U		21	U		21	U	
n-Butylbenzene	3,900 [4]	NV	1.3	U		1.4	U		1.3	U		1.2	U		1.4	U		1.3	U		1.4	U		1.4	U		1.4	U	
sec-Butylbenzene	NV [5]	NV	1.6	U		1.8	U		1.6	U		1.5	U		1.8	U		1.7	U		1.7	U		1.7	U		1.7	U	
Carbon disulfide	1,530	NV	2.0	U		2.2	U		2.1	U		1.9	U		2.2	U		2.1	U		2.2	U		2.1	U		2.1	U	
1,1-Dichloroethane	64.5	NV	14.5			1.2	U		1.1	U		1.0	U		1.2	U		1.1	U		1.2	U		1.2	U		1.1	U	
1,1-Dichloroethylene	449	NV	6.4			1.5	U		1.4	U		1.3	U		1.6	U		1.5	U		1.5	U		1.5	U		1.5	U	
cis-1,2-Dichloroethylene	156	NV	1.5	U		1.7	U		1.5	U		1.4	U		2.4	J	J	1.6	U		1.6	U		1.6	U		1.6	U	
Isopropylbenzene	2,430	NV	1.1	U		1.2	U		1.1	U		1.0	U		1.2	U		1.1	U		1.2	U		1.2	U		1.1	U	
Tetrachloroethylene	7.02	NV	22.7			1.1	U		1.0	U		0.94	U		1.1	U		1.0	U		1.1	U		1.1	U		1.0	U	
Toluene	5,270	NV	1.8	J		1.3	U		1.2	U		1.1	U		1.3	U		1.2	U		1.3	U		1.3	U		1.2	U	
Trichloroethylene	8.77	NV	5.4			1.3	U		1.2	U		1.1	U		1.3	U		1.2	U		1.3	U		1.3	U		1.2	U	
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All SVOCs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	3.3	U		4.2	U		3.7	U		3.7	U		3.7	U		3.6	U		3.7	U		3.6	U		3.8	U	
Diesel Range Organics (C10-C22)	1,000 [6]	NV	4.1	U		4.4	U		4.6	U		4.5	U		4.56	J	J	4.5	U		4.4	U		4.5	U		4.5	U	
Oil Range Organics (>C22-C36)	1,000 [6]	NV	4.1	U		4.4	U		4.6	U		5.34	J		7.91	J	J	4.5	U		4.4	U		4.5	U		4.5	U	
PCBs	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	6,050			3,760		J	3,280		J	3,810		J	1,210		J	3,830		J	5,440		J	4,610		J	5,000		J
Antimony	31.3	1.6	0.51	U		1.2	U		1.1	U		1.1	U		1.3	U		1.0	U		0.65	U		1.1	U		0.95	U	
Arsenic	3.9	3.7	3.2			2.7	J		3.0			1.1	J		1.2	J		1.7	J		1.9	J		1.9	J		2.7		
Barium	15,600	169.3	28.1	J		36.9	J		40.9	J		32.9	J		28.9	J		40.7	J		52.6	J		50.2	J		56.9		
Beryllium	156	1.6	0.25	U		0.30	U		0.28	U		0.27	U		0.33	U		0.25	U		0.33	U		0.27	U		0.24	U	
Calcium	NV [5]	317,332	116,000		J	175,000		J	198,000		J	193,000		J	215,000		J	139,000		J	162,000		J	155,000		J	179,000		J
Chromium	117,000	25	6.5			3.0	J	J	2.8	J	J	3.2	J		0.78	J		3.2	J		4.8		J	4.7	J		5.7		
Cobalt	23 [4]	7.7	2.0	J		1.0	J		0.95	J		1.2	J		0.45	J		1.1	J		1.8	J		1.8	J		1.9	J	
Copper	3,130	13	2.4	J		2.1	J		2.0	J		2.3	J		2.3	J		2.2	J		2.6	J		2.9	J		3.0	J	
Iron	54,800	23,049	5,150			2,840		J	2,430		J	3,370			993			3,320			4,350		J	4,760			5,120		
Lead	400	10.9	2.8	J	J	1.5	J		1.8	J		1.3	J		0.71	J		1.5	J		2.0	J		2.2	J		2.8	J	
Magnesium	NV [5]	16,991	5,120		J	4,400		J	3,940		J	2,180			913	J		3,180			4,660		J	4,440			4,860		
Manganese	1,860	393	70.5			46.9		J	34.8		J	40.7		J	11.5		J	40.5		J	69.3		J	65.6		J	71.2		J
Nickel	1,560	17.4	5.1	J		2.7	J		2.1	J		3.2	J		1.2	J		2.7	J		4.5	J		4.9	J		5.1	J	
Potassium	NV [5]	5,077	1,360	J		808	J	J	673	J	J	902	J		314	J		832	J		1,250	J	J	1,090	J		1,140	J	
Sodium	NV [5]	5,196	1,370	J	J	320	U		310	U		333	J		360	U		342	J		360	U		307	J		324	J	
Vanadium	391	42.6	18.6			11.2	J		10.9	J		15.2			4.4	J		12.8	J		15.8	J		13.5			14.7		
Zinc	23,500	54.6	12.7		J	8.7	J		8.9	J		8.5	J		4.0	J		9.0	J		12.1			12.1			13.5		
General Chemistry	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	79.8			74.3			73.1			73.6			74.8			74.8			75.0			74.3			74.2		

Notes:
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
SVOC = Semi-Volatile Organic Compounds
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
% = percent
Q = Laboratory Qualifier
Q1 = Valadating Chemist Qualifier
Qualifiers
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature
SS18 = Chromic Acid Spill Site
DP = Direct Push Soil Sample
A = Sample suffix denoting a field duplicate sample
Final digit(s) equals the ending depth of the sample interval

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (November, 2012)
[5] No Value established for NMED Residential SSL (June, 2012) and USEPA RSL (November, 2012)
[6] Table 6-3, TPH Screening Guidelines for Unknown oil, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Unknown oil, Residential Direct Exposure, Table 6-3)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL

Table 7-1
SACM Soil Analytical Results (August 2012)
Site SS-18
Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP39-8			SS18-DP40-8			SS18-DP41-7			SS18-DP42-5			SS18-DP43-5			SS18-DP44-7			SS18-DP45-8			SS18-DP46-8		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Levels [2]	F95903-3			F95903-2			F96080-1			F96004-2			F96004-3			F96003-3			F96080-2			F96080-4		
Date Sampled:			8/14/2012			8/14/2012			8/17/2012			8/16/2012			8/16/2012			8/16/2012			8/17/2012			8/17/2012		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	66,600	NV	20	U		22	U		19	U		21	U		20	U		24	U		21	U		19	U	
n-Butylbenzene	3,900 [4]	NV	1.3	U		1.4	U		1.2	U		1.4	U		1.3	U		1.5	U		10.0			1.3	U	
sec-Butylbenzene	NV [5]	NV	1.6	U		1.7	U		1.5	U		1.7	U		1.6	U		1.9	U		107			1.6	U	
Carbon disulfide	1,530	NV	2.0	U		2.2	U		1.9	U		2.1	U		2.0	U		2.4	U		7.6			1.9	U	
1,1-Dichloroethane	64.5	NV	1.1	U		1.2	U		1.0	U		1.2	U		1.1	U		1.3	U		1.2	U		1.1	U	
1,1-Dichloroethylene	449	NV	1.4	U		1.5	U		1.3	U		1.5	U		1.4	U		1.7	U		1.5	U		1.4	U	
cis-1,2-Dichloroethylene	156	NV	1.5	U		1.6	U		1.4	U		1.6	U		1.5	U		1.8	U		1.6	U		1.5	U	
Isopropylbenzene	2,430	NV	1.1	U		1.2	U		1.0	U		1.2	U		1.1	U		1.3	U		48.4			1.1	U	
Tetrachloroethylene	7.02	NV	1.0	U		1.1	U		0.95	U		1.0	U		1.0	U		1.2	U		1.1	U		0.97	U	
Toluene	5,270	NV	1.2	U		1.3	U		1.1	U		1.3	U		1.2	U		1.4	U		1.3	U		1.2	U	
Trichloroethylene	8.77	NV	1.2	U		1.3	U		1.1	U		1.3	U		1.2	U		1.4	U		1.3	U		1.2	U	
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All SVOCs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND		
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	3.5	U		3.8	U		3.4	U		3.4	U		4.0	U		3.9	U		**1,440**			3.4	U	
Diesel Range Organics (C10-C22)	1,000 [6]	NV	4.3	U		4.5	U		4.2	U		4.9	U		4.6	U		4.8	U		**1,590**			4.4	U	
Oil Range Organics (>C22-C36)	1,000 [6]	NV	8.26	J		4.5	U		4.2	U		4.9	U		4.6	U		4.8	U		356	J		4.4	U	
PCBs	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
All PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	2,370		J	2,790		J	5,440			5,020		J	1,350		J	3,490		J	3,710			4,660		
Antimony	31.3	1.6	1.2	U		1.1	U		0.88	U		1.4	U		1.8	U		1.3	U		0.92	U		1.2	U	
Arsenic	3.9	3.7	1.3	J		1.3	J		3.1			2.5	J		1.8	J		1.5	J		2.8			0.78	J	
Barium	15,600	169.3	25.0	J		23.2	J		68.6			48.3	J		34.0	J		36.0	J		42.1	J		45.6	J	
Beryllium	156	1.6	0.62	U		0.56	U		0.22	U		0.35	U		0.22	U		0.32	U		0.23	U		0.29	U	
Calcium	NV [5]	317,332	151,000			171,000			127,000		J	176,000		J	248,000		J	180,000		J	203,000		J	150,000		J
Chromium	117,000	25	2.5	J		2.8	J		4.9			4.1	J		1.0	J		3.0	J		3.1	J		4.2	J	
Cobalt	23 [4]	7.7	0.67	J		1.2	J		1.7	J		1.9	J		0.73	J		1.2	J		1.2	J		1.2	J	
Copper	3,130	13	1.2	U		1.1	J		3.2	J		3.2	J		2.5	J		2.2	J		1.6	J		1.7	J	
Iron	54,800	23,049	2,050		J	2,510		J	4,580			4,550			1,130			3,150			3,050			3,690		
Lead	400	10.9	0.62	U		0.86	J		1.2	J	J	2.4	J		0.89	U		1.1	J		0.83	J	J	0.59	U	
Magnesium	NV [5]	16,991	1,760	J		1,560	J		1,780		J	4,490			761	J		2,500			3,240		J	3,370		J
Manganese	1,860	393	26.2			72.2			71.7			60.2		J	15.9		J	78.1		J	102			40.5		
Nickel	1,560	17.4	1.6	J		2.1	J		3.9	J		4.5	J		1.3	J		3.3	J		3.0	J		2.8	J	
Potassium	NV [5]	5,077	642	J		684	J		1,400	J		1,320	J		399	J		811	J		1,050	J		1,130	J	
Sodium	NV [5]	5,196	680	U		620	U		240	U		380	U		240	U		350	U		449	J	J	1,560	J	J
Vanadium	391	42.6	5.3	J		5.8	J		12.0			16.5	J		4.8	J		11.3	J		8.8	J		8.2	J	
Zinc	23,500	54.6	6.8	J		7.1	J		12.6		J	11.5	J		4.4	U		8.2	J		8.6	J	J	9.6	J	J
General Chemistry	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	77.2			72.7			78.0			68.1			72.1			69.0			71.8			74.9		

Notes:
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UTL = Upper Tolerance Limit
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SVOC = Semi-Volatile Organic Compounds
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
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Table 7-2
SACM Groundwater Analytical Results (September 2012)
Site SS-18 Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			SS18-MW02			SS18-MW03			SS18-MW04			SS18-MW04			SS18-MW05			SS18-MW06			SS18-MW07			SS18-MW08			SS18-MW08-A			SS18-MW09			SS18-MW10		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Background[3]	Dissolved Metals in Groundwater UTL[4]	Total Metals in Groundwater UTL[4]	F96920-12			F96955-5			F96955-10			F97042-1			F96812-17			F96920-7			F96768-1			F96768-5			F96812-7			F96768-9			F96768-11		
Date Sampled:						9/13/2012			9/14/2012			9/14/2012			9/17/2012			9/12/2012			9/12/2012			9/10/2012			9/10/2012			9/10/2012			9/11/2012			9/11/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzene	10	5	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
Bromodichloromethane	NV	NV	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.24	J		0.23	J		0.20	U		0.20	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		6.6			0.22	U		0.22	U		0.22	U		0.22	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.27	U		0.27	U		0.27	U		NS			0.27	U		0.27	U		1.4			0.27	U		0.27	U		0.27	U		0.27	U	
Chloroform	100	NV	NV	NV	NV	6.9			0.39	J		4.0			NS			0.54	J		0.69	J		0.22	U		3.3			3.0			0.22	U		0.22	U	
o-Chlorotoluene	NV	NV	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
1,1-Dichloroethane	25	NV	NV	NV	NV	2.9			0.25	U		**25.2**			NS			**170**		J	0.25	U		0.29	J		**27.2**			20.5			0.25	U		0.25	U	
1,1-Dichloroethylene	5	7	NV	NV	NV	4.3			0.23	U		**35.9**			NS			**54.4**			0.23	U		0.23	U		**95.5**			**97.6**			1.2			0.23	U	
1,2-Dichloroethane	10	5	NV	NV	NV	0.20	U		0.20	U		0.43	J		NS			0.20	U		0.20	U		0.20	U		0.90	J		0.76	J		0.20	U		0.20	U	
Dichlorodifluoromethane	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.50	U		NS			0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethylene	NV	70	NV	NV	NV	0.26	U		0.26	U		0.26	U		NS			0.26	U		0.26	U		0.26	U		0.36	J		0.26	U		0.26	U		0.26	U	
m-Dichlorobenzene	NV	NV	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
o-Dichlorobenzene	NV	600	NV	NV	NV	0.25	U		0.25	U		0.25	U		NS			0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U	
p-Dichlorobenzene	NV	75	NV	NV	NV	0.23	U		0.23	U		0.23	U		NS			0.23	U		0.23	U		0.23	U		0.23	U		0.23	U		0.23	U		0.23	U	
trans-1,2-Dichloroethylene	NV	100	NV	NV	NV	0.35	U		0.35	U		0.35	U		NS			0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U	
Methylene chloride	100	5	NV	NV	NV	2.0	U		2.0	U		2.0	U		NS			2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	NV	NV	0.34	U		0.34	U		0.34	U		NS			0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U	
1,1,1-Trichloroethane	60	200	NV	NV	NV	0.20	U		0.20	U		0.71	J		NS			56.9			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
1,2,3-Trichlorobenzene	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.50	U		NS			0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethylene	20	5	NV	NV	NV	0.25	U		0.25	U		0.32	J		NS			0.25	U		0.25	U		0.25	U		**28.2**		J	**16.3**		J	0.25	U		0.25	U	
Trichloroethylene	100	5	NV	NV	NV	0.26	U		0.26	U		0.26	U		NS			0.26	J		0.26	U		0.26	U		**6.5**		J	3.7		J	0.26	U		0.26	U	
Vinyl chloride	1	2	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Pentachlorophenol	NV	1	NV	NV	NV	5.1	U		5.1	U		NS			5.2	U		5.3	U		5.1	U		5.1	U		5.2	U		5.2	U		5.1	U		5.1	U	
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.95	U		0.95	U		NS			0.96	U		0.99	U		0.95	U		0.95	U		0.96	U		0.96	U		0.95	U		0.95	U	
Dibenzofuran	NV	NV	NV	NV	NV	0.48	U		0.48	U		NS			0.48	U		0.50	U		0.48	U		1.4	J		0.48	U		0.48	U		0.48	U		0.48	U	
1-Methylnaphthalene	30	NV	NV	NV	NV	0.48	U		0.48	U		NS			0.48	U		0.50	U		0.48	U		0.48	U		0.48	U		0.48	U		0.48	U		0.48	U	
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Gasoline Range Organics (C6-C10)	50 [6]	NV	NV	NV	NV	0.050	U		0.050	U		0.050	U		NS			0.165			0.050	U		0.0736	J		0.050	U		0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [6]	NV	NV	NV	NV	0.098	U		0.098	U		NS			0.164	J		0.097	U		0.11	U		1.10			0.095	U		0.096	U		0.096	U		0.096	U	
Oil Range Organics (>C22-C36)	50 [6]	NV	NV	NV	NV	0.098	U		0.098	U		NS			0.247			0.136	J		0.11	U		0.128	J		0.095	U		0.096	U		0.096	U		0.096	U	
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
All PCBs	1	0.5	NV	NV	NV	ND			ND			NS			ND			ND			ND			ND			ND			ND			ND			ND		
Total TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	1,043	NV	1,042.43	75.5	J		151	J		588			NS			41.5	J		25	U		161	J		75.5	J	J	42.1	J	J	175	J		**1,590**		
Antimony	NV	6	6	NV	10.00	2.0	U		**8.6**	J		2.6	J		NS			2.0	U		2.0	U		2.0	U		**7.7**			**6.8**			4.0	J		4.4	J	
Arsenic	100	10	10	NV	25.93	**13.3**			**29.6**			**26.6**			NS			**10.0**			**18.8**			**36.3**			**18.7**			**19.1**			**10.7**			**16.6**		
Barium	1,000	2,000	38	NV	38.00	16.6	J		20.1	J		19.1	J		NS			20.1	J		15.7	J		24.5	J		15.6	J		15.4	J		27.4	J		37.3	J	
Calcium	NV	NV	1,136,664	NV	1,136,663.50	532,000			734,000			572,000			NS			630,000			599,000			656,000			812,000			772,000			516,000			512,000		
Chromium	50	100	12	NV	12.00	2.2	J		22.0			**257**			NS			1.0	U		1.0	U		1.7	J		1.0	U		1.0	U		2.9	J		3.8	J	
Cobalt	50	NV	36	NV	36.00	1.0	U		0.60	J		0.50	U		NS			1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Copper	1,000	1,300	9.8	NV	9.80	2.0	U		10.1	J		177		J	NS			2.0	U		2.0	U		48.6			2.0	U		2.0	U		2.1	J		3.4	J	
Iron	1,000	300 [7]	300	NV	1,306.82	71.6	J		**652**			**1,500**			NS			35	U		35	U		270	J		35	U		35	U		141	J		**1,180**		
Lead	50	15	9	NV	9.00	1.2	J		2.2	U		2.2	U		NS			1.0	U		2.1	J		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Magnesium	NV	NV	3,692,782	NV	3,692,781.50	243,000			1,040,000			408,000			NS			86,700			113,000			107,000			1,050,000			1,030,000			304,000			296,000		
Manganese	200	50 [7]	50	NV	745.38	1.5	J		28.7	J		14.9	J		NS			1.8	J		1.0	U		**92.4**			1.0	U		1.0	U		**78.7**			**98.8**		
Mercury	2	2	0.5	NV	0.44	0.050	U		0.050	U		0.050	U		NS			0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U	
Nickel	200	NV	22	NV	21.97	2.0	U		7.1	J		8.2	J		NS			2.0	U		2.0	U		19.9	J		2.0	U		2.0	U		5.5	J		2.0	U	
Potassium	NV	NV	212,144	NV	212,143.56	12,100			35,600		J	15,000		J	NS			7,820	J		15,800			7,490	J		20,800			19,900			11,400			6,470	J	
Selenium	50	50	50	NV	129.52	2.0	U		12.0	J		4.0	U		NS			2.0	U		2.0	U		2.0	U		7.6	J	J	3.4	J	J	8.1	J	J	5.7	J	J
Silver	50	100 [7]	10	NV	10.00	1.0	U		0.50	U		0.50	U		NS			1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Sodium	NV	NV	20,989,585	NV	20,989,585.00	271,000			4,490,000			1,300,000			NS			76,100			213,000			179,000			4,620,000			4,760,000			758,000			355,000		
Thallium	NV	2	2	NV	15.00	1.9	U		2.6	U		2.6	U		NS			1.9	J		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U	
Vanadium	NV	NV	90	NV	90.02	82.2			107			185			NS			93.0			114			8.3	J		70.8			72.5			76.1			104		
Zinc	10,000	5,000 [7]	17	NV	16.95	5.0	U		10	U		10	U		NS			5.0	U		5.0	U		1,790			5.0	U		5.0	U		11.2	J		16.4	J	
Dissolved TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	54	54.00	NV	**68.1**	J		**72.2**	J		NS			47.4	J		25	U		25	U		**74.4**	J		**73.5**	J		25	U		51.3	J		**58.5**	J	
Antimony	NV	6	6	10.00	NV	2.0	U		**8.9**	J		NS			4.6	J		2.0	U		2.0	U		3.1	J		**6.7**			2.0	U		3.1	J		2.6	J	
Arsenic	100	10	10	28.53	NV	**13.3**			**25.3**			NS			**16.0**			**11.4**			**19.6**			3.5	J		**18.0**			**21.7**			**10.3**			**15.4**		
Barium	1,000	2,000	30.2	30.13	NV	15.2	J		20.4	J		NS			14.9	J		18.5	J		16.7	J		23.3	J		15.7	J		14.6	J		27.5	J		19.0	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	503,000			744,000			NS			534,000			598,000			606,000			642,000			785,000			853,000			531,000			521,000		
Chromium	50	100	2.5	2.50	NV	1.5	J		4.0	U		NS			2.0	J		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Cobalt	50	NV	2.6	2.60	NV	1.0	U		0.50	U		NS			0.50	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Copper	1,000	1,300	22	57.46	NV	2.0	U		6.2	J		NS			10.9	J		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U	
Iron	1,000	300 [7]	65.6	65.56	NV	35	U		29	U		NS			29	U		35	U		35	U		35	U		35	U		35	U		35	U		35	U	
Lead	50	15	9	9.00	NV	1.0	U		2.2	U		NS			1.1	U		1.9	J		1.8	J		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	231,000			990,000			NS			431,000			82,500			115,000			108,000			1,020,000			1,150,000			323,000			299,000		
Manganese	200	50 [7]	50	118.65	NV	1.0	U		26.2	J		NS			2.6	J		1.6	J		1.0	U		**83.0**			1.0	U		1.0	U		**77.7**			**63.3**		
Nickel	200	NV	15.9	15.89	NV	2.0	U		5.8	J		NS			6.5	J		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		4.9	J		2.0	U	
Potassium	NV	NV	120,480	120,479.98	NV	11,700			34,100		J	NS			15,000			7,560	J		16,500			7,520	J		20,800			24,300			11,600			6,870	J	
Selenium	50	50	25.3	25.26	NV	2.0	U		8.5	J		NS			2.0	U		2.0	U		2.0	U		2.4	J	J	7.8	J	J	10.5		J	8.0	J	J	4.8	J	J
Sodium	NV	NV	19,972,499	19,972,499.00	NV	263,000			4,380,000			NS			1,660,000		J	77,100			193,000			180,000			4,560,000			4,420,000			769,000			335,000		
Thallium	NV	2	2	15.00	NV	1.9	U		**4.6**	J		NS			1.6	J		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U	
Vanadium	NV	NV	73.8	73.73	NV	76.3			97.6			NS			103			88.2			119			5.6	J		70.6		J	70.2			76.3		J	99.5		J
Zinc	10,000	5,000 [7]	23	56.28	NV	5.3	J		10	U		NS			7.7	J		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Solids, Total Dissolved	1,000	500 [7]	NV	NV	65,956.58	**3,980**			**13,400**			**6,930**			NS			**3,030**			**3,390**			**3,510**			**13,600**			**19,200**			**6,180**			**4,930**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NS = Not sampled

Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature:
SS18 = Chromic Acid Spill Site
MW = Monitoring Well
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] Table 6-3, TPH Screening Guidelines for Unknown Oil, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Unknown Oil, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below any established New Mexico Groundwater Quality Standard and USEPA MCL

Table 7-2
SACM Groundwater Analytical Results (September 2012)
Site SS-18 Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			SS18-MW11			SS18-MW12			SS18-MW13			SS18-MW13			SS18-MW14			SS18-MW15			SS18-MW16			SS18-MW17			SS18-MW18			SS18-MW19			SS18-MW19		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Background[3]	Dissolved Metals in Groundwater UTL[4]	Total Metals in Groundwater UTL[4]	F96768-13			F96768-7			F96920-9			F96955-12			F96736-7			F96768-3			F96920-10			F96812-13			F96955-1			F96955-7			F96955-8		
Date Sampled:						9/11/2012			9/11/2012			9/12/2012			9/14/2012			9/10/2012			9/10/2012			9/13/2012			9/12/2012			9/13/2012			9/13/2012			9/14/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzene	10	5	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.27	J		0.20	U		0.20	U		1.0	U		NS		
Bromodichloromethane	NV	NV	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		1.0	U		NS		
sec-Butylbenzene	NV	NV	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		1.1	U		NS		
tert-Butylbenzene	NV	NV	NV	NV	NV	0.27	U		0.27	U		0.27	U		NS			0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		1.4	U		NS		
Chloroform	100	NV	NV	NV	NV	1.1			1.0			2.1			NS			4.6			0.61	J		1.9			0.22	U		0.22	U		1.1	U		NS		
o-Chlorotoluene	NV	NV	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		1.1	U		NS		
1,1-Dichloroethane	25	NV	NV	NV	NV	0.25	U		9.0			0.25	U		NS			0.25	U		0.25	U		1.2			0.25	U		8.5			**497**			NS		
1,1-Dichloroethylene	5	7	NV	NV	NV	0.27	J		0.70	J		0.23	U		NS			0.23	U		1.0			2.0			0.23	U		2.8			**53.8**			NS		
1,2-Dichloroethane	10	5	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		1.4	J		NS		
Dichlorodifluoromethane	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.50	U		NS			0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		2.5	U		NS		
cis-1,2-Dichloroethylene	NV	70	NV	NV	NV	0.26	U		0.26	U		0.26	U		NS			0.26	U		0.26	U		**199**			0.26	U		**102**			8.2			NS		
m-Dichlorobenzene	NV	NV	NV	NV	NV	0.20	U		0.20	U		0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		1.0	U		NS		
o-Dichlorobenzene	NV	600	NV	NV	NV	0.25	U		0.25	U		0.25	U		NS			0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		1.3	U		NS		
p-Dichlorobenzene	NV	75	NV	NV	NV	0.23	U		0.23	U		0.23	U		NS			0.23	U		0.23	U		0.23	U		0.23	U		0.30	J		1.2	U		NS		
trans-1,2-Dichloroethylene	NV	100	NV	NV	NV	0.35	U		0.35	U		0.35	U		NS			0.35	U		0.35	U		5.5			0.35	U		6.2			1.8	U		NS		
Methylene chloride	100	5	NV	NV	NV	2.0	U		3.0	J		2.0	U		NS			2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		10	U		NS		
Methyl Tert Butyl Ether	NV	NV	NV	NV	NV	0.34	U		0.34	U		0.34	U		NS			0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		5.3			NS		
1,1,1-Trichloroethane	60	200	NV	NV	NV	0.20	U		1.2			0.20	U		NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		1.0	U		NS		
1,2,3-Trichlorobenzene	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.50	U		NS			0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		2.5	U		NS		
Tetrachloroethylene	20	5	NV	NV	NV	0.25	U		0.25	U		0.25	U		NS			0.25	U		0.25	U		0.83	J		0.25	U		**16.4**			**150**			NS		
Trichloroethylene	100	5	NV	NV	NV	0.26	U		0.26	U		0.26	U		NS			0.26	U		0.26	U		**12.9**			0.26	U		**111**			**40.2**			NS		
Vinyl chloride	1	2	NV	NV	NV	0.22	U		0.22	U		0.22	U		NS			0.22	U		0.22	U		0.88	J		0.22	U		0.27	J		1.1	U		NS		
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Pentachlorophenol	NV	1	NV	NV	NV	5.2	U		5.1	U		NS			5.1	U		5.1	U		5.1	U		5.1	U		5.3	U		5.1	U		NS			5.1	U	
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.96	U		0.95	U		NS			0.95	U		0.95	U		0.95	U		0.95	U		0.98	U		0.95	U		NS			0.95	U	
Dibenzofuran	NV	NV	NV	NV	NV	0.48	U		0.48	U		NS			0.48	U		0.48	U		0.48	U		0.48	U		0.49	U		0.48	U		NS			0.48	U	
1-Methylnaphthalene	30	NV	NV	NV	NV	0.48	U		0.48	U		NS			0.48	U		0.48	U		0.48	U		0.48	U		0.49	U		0.48	U		NS			0.48	U	
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Gasoline Range Organics (C6-C10)	50 [6]	NV	NV	NV	NV	0.050	U		0.050	U		0.050	U		NS			0.050	U		0.050	U		0.141			0.050	U		0.164			0.486			NS		
Diesel Range Organics (C10-C22)	50 [6]	NV	NV	NV	NV	0.0999	J		0.095	U		NS			0.099	U		0.095	U		0.095	U		0.096	U		0.095	U		0.108	J		NS			0.198	J	
Oil Range Organics (>C22-C36)	50 [6]	NV	NV	NV	NV	0.101	J		0.095	U		NS			0.106	J		0.095	U		0.095	U		0.096	U		0.155	J		0.136	J		NS			0.143	J	
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
All PCBs	1	0.5	NV	NV	NV	ND			ND			NS			ND			ND			ND			ND			ND			ND			NS			ND		
Total TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	1,043	NV	1,042.43	301			60.4	J		**1,970**			NS			221			871			**11,900**			98.4	J		806			**3,180**			NS		
Antimony	NV	6	6	NV	10.00	2.8	J		3.6	J		4.0	U		NS			2.4	J		4.4	J		8.0	U		2.9	J		26	U		5.3	J		NS		
Arsenic	100	10	10	NV	25.93	8.7	J		**20.1**			**17.9**			NS			7.2	J	J	**17.3**			**34.5**			7.8	J		**16.4**			**24.8**			NS		
Barium	1,000	2,000	38	NV	38.00	30.1	J		17.0	J		45.4	J		NS			23.9	J		25.9	J		127	J		11.3	J		23.4	J		39.4	J		NS		
Calcium	NV	NV	1,136,664	NV	1,136,663.50	678,000			666,000			591,000			NS			626,000			547,000			1,100,000			460,000			599,000			792,000			NS		
Chromium	50	100	12	NV	12.00	1.0	U		1.0	U		7.3	J		NS			1.1	J		11.9			23.5	J		1.0	U		40	U		**254**			NS		
Cobalt	50	NV	36	NV	36.00	1.0	U		1.0	U		1.0	U		NS			1.0	U		1.0	U		10.1	J		1.0	U		3.6	J		4.4	J		NS		
Copper	1,000	1,300	9.8	NV	9.80	2.0	U		2.0	U		4.5	J		NS			2.0	U		2.0	U		16.2	J		2.0	U		2.5	J		17.5	J		NS		
Iron	1,000	300 [7]	300	NV	1,306.82	154	J		35	U		**1,790**			NS			139	J		**1,030**			**9,700**			49.0	J		**750**			**8,170**			NS		
Lead	50	15	9	NV	9.00	1.0	U		1.0	U		2.0	U		NS			1.0	U		1.0	U		8.6	J		1.0	U		22	U		6.8	J		NS		
Magnesium	NV	NV	3,692,782	NV	3,692,781.50	85,300			106,000			238,000			NS			145,000			366,000			696,000			291,000			357,000			391,000			NS		
Manganese	200	50 [7]	50	NV	745.38	44.6			**597**			**52.6**			NS			5.3	J		12.8	J		**717**			6.7	J		**185**			**364**			NS		
Mercury	2	2	0.5	NV	0.44	0.050	U		0.050	U		0.050	U		NS			0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		NS		
Nickel	200	NV	22	NV	21.97	2.0	U		2.0	U		3.2	J		NS			2.0	U		2.0	U		17.7	J		2.0	U		3.6	J		49.4		J	NS		
Potassium	NV	NV	212,144	NV	212,143.56	5,510	J		5,080	J		6,990	J		NS			7,200	J	J	17,200			28,200		J	23,900			27,000		J	21,600		J	NS		
Selenium	50	50	50	NV	129.52	5.1	J	J	2.0	U		4.0	U		NS			4.2	J	J	8.7	J	J	8.0	U		2.5	J	J	40	U		4.0	U		NS		
Silver	50	100 [7]	10	NV	10.00	1.0	U		1.0	U		1.0	U		NS			1.0	U		1.0	U		1.0	U		1.0	U		0.50	U		0.50	U		NS		
Sodium	NV	NV	20,989,585	NV	20,989,585.00	167,000			143,000			434,000			NS			123,000			1,140,000			2,080,000			417,000			831,000			369,000			NS		
Thallium	NV	2	2	NV	15.00	1.9	U		1.9	U		3.7	U		NS			1.9	U		1.9	U		7.4	U		1.9	U		**71.9**	J		**3.0**	J		NS		
Vanadium	NV	NV	90	NV	90.02	89.9			92.3			108			NS			64.5			76.2			152			74.7			78.5			173			NS		
Zinc	10,000	5,000 [7]	17	NV	16.95	5.0	U		5.0	U		15.2	J		NS			5.0	U		5.9	J		51.2	J		5.0	U		100	U		27.8	J		NS		
Dissolved TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	54	54.00	NV	**55.3**	J		**58.5**	J		25	U		NS			**55.7**	J		**64.2**	J		25	U		25	U		**55.1**	J		NS			**73.6**	J	
Antimony	NV	6	6	10.00	NV	3.5	J		3.4	J		4.0	U		NS			4.2	J		3.8	J		8.0	U		2.0	U		26	U		NS			**8.8**	J	
Arsenic	100	10	10	28.53	NV	6.3	J		**21.0**			**14.1**			NS			6.1	J	J	**17.8**			**25.2**			9.1	J		**15.8**			NS			9.4	J	
Barium	1,000	2,000	30.2	30.13	NV	27.6	J		17.2	J		21.2	J		NS			22.5	J		12.0	J		21.9	J		11.1	J		15.2	J		NS			26.5	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	616,000			750,000			559,000			NS			571,000			510,000			941,000			483,000			570,000			NS			871,000		
Chromium	50	100	2.5	2.50	NV	1.0	U		1.0	U		2.0	U		NS			1.0	U		6.3	J		4.0	U		1.0	U		40	U		NS			4.0	U	
Cobalt	50	NV	2.6	2.60	NV	1.0	U		1.1	J		1.0	U		NS			1.0	U		1.0	U		1.1	J		1.0	U		2.3	J		NS			1.1	J	
Copper	1,000	1,300	22	57.46	NV	2.0	U		2.0	U		4.0	U		NS			2.0	U		2.0	U		8.0	U		2.0	U		1.5	J		NS			4.8	J	
Iron	1,000	300 [7]	65.6	65.56	NV	35	U		35	U		35	U		NS			40.5	J		35	U		35	U		35	U		29	U		NS			142	J	
Lead	50	15	9	9.00	NV	1.0	U		1.0	U		2.0	U		NS			1.0	U		1.0	U		4.0	U		1.0	U		22	U		NS			4.7	J	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	77,900			107,000			208,000			NS			151,000			353,000			691,000			292,000			366,000			NS			552,000		
Manganese	200	50 [7]	50	118.65	NV	34.5			**583**			8.7	J		NS			5.5	J		1.0	U		**373**			6.5	J		**140**			NS			**171**		
Nickel	200	NV	15.9	15.89	NV	2.0	U		2.0	U		2.0	U		NS			2.0	U		3.0	J		3.7	J		2.0	U		2.7	J		NS			66.8		J
Potassium	NV	NV	120,480	120,479.98	NV	5,250	J		4,990	J		7,000	J		NS			7,490	J	J	16,000			25,400		J	26,700			26,300		J	NS			24,900		J
Selenium	50	50	25.3	25.26	NV	3.2	J	J	4.7	J	J	4.0	U		NS			2.0	U		5.4	J	J	8.0	U		6.2	J	J	40	U		NS			4.0	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	141,000			161,000			317,000			NS			112,000			1,120,000			2,190,000			502,000			842,000			NS			1,720,000		
Thallium	NV	2	2	15.00	NV	1.9	U		1.9	U		3.7	U		NS			1.9	U		1.9	U		7.4	U		1.9	U		26	U		NS			2.6	U	
Vanadium	NV	NV	73.8	73.73	NV	78.7		J	89.4		J	98.2			NS			65.4			68.9		J	127			77.9			73.6			NS			73.2		
Zinc	10,000	5,000 [7]	23	56.28	NV	5.0	U		5.0	U		10	U		NS			5.0	U		5.0	U		20	U		5.0	U		100	U		NS			10	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Solids, Total Dissolved	1,000	500 [7]	NV	NV	65,956.58	**2,990**			**3,500**			**4,710**			NS			**3,480**			**6,950**			**9,430**			**4,940**			**5,800**			**6,390**			NS		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NS = Not sampled

Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature:
SS18 = Chromic Acid Spill Site
MW = Monitoring Well
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] Table 6-3, TPH Screening Guidelines for Unknown Oil, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Unknown Oil, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below any established New Mexico Groundwater Quality Standard and USEPA MCL

Table 7-2
SACM Groundwater Analytical Results (September 2012)
Site SS-18 Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			SS18-MW20			SS18-MW20			SS18-MW21			SS18-MW22			SS18-MW22-A			SS18-MW23			SS18-MW24			SS18-MW25			SS18-MW26			SS18-MW27		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Background[3]	Dissolved Metals in Groundwater UTL[4]	Total Metals in Groundwater UTL[4]	F96955-11			F97042-2			F97531-1			F96955-3			F96812-3			F96812-5			F96736-1			F96736-3			F96736-5			F96812-9			F96812-1		
Date Sampled:						9/14/2012			9/17/2012			10/1/2012			9/13/2012			9/11/2012			9/11/2012			9/10/2012			9/10/2012			9/10/2012			9/11/2012			9/11/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzene	10	5	NV	NV	NV	0.20	U		NS			NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
Bromodichloromethane	NV	NV	NV	NV	NV	0.20	U		NS			NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.22	U		NS			NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.27	U		NS			NS			0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U	
Chloroform	100	NV	NV	NV	NV	0.48	J		NS			NS			0.22	U		0.65	J		0.61	J		0.71	J		0.22	U		0.22	U		0.22	U	
o-Chlorotoluene	NV	NV	NV	NV	NV	0.22	U		NS			NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
1,1-Dichloroethane	25	NV	NV	NV	NV	0.25	U		NS			NS			0.25	U		0.40	J		0.42	J		0.25	U		0.25	U		0.25	U		0.25	U	
1,1-Dichloroethylene	5	7	NV	NV	NV	0.23	U		NS			NS			0.23	U		4.2			4.5			0.23	U		0.23	U		0.23	U		0.23	U	
1,2-Dichloroethane	10	5	NV	NV	NV	0.20	U		NS			NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
Dichlorodifluoromethane	NV	NV	NV	NV	NV	0.50	U		NS			NS			0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethylene	NV	70	NV	NV	NV	0.26	U		NS			NS			0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U	
m-Dichlorobenzene	NV	NV	NV	NV	NV	0.20	U		NS			NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
o-Dichlorobenzene	NV	600	NV	NV	NV	0.25	U		NS			NS			0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U	
p-Dichlorobenzene	NV	75	NV	NV	NV	0.23	U		NS			NS			0.23	U		0.23	U		0.23	U		0.23	U		0.23	U		0.23	U		0.23	U	
trans-1,2-Dichloroethylene	NV	100	NV	NV	NV	0.35	U		NS			NS			0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U	
Methylene chloride	100	5	NV	NV	NV	2.0	U		NS			NS			2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	NV	NV	0.34	U		NS			NS			0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U	
1,1,1-Trichloroethane	60	200	NV	NV	NV	0.20	U		NS			NS			0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
1,2,3-Trichlorobenzene	NV	NV	NV	NV	NV	0.50	U		NS			NS			0.50	U		0.50	U		0.50	J	J	0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethylene	20	5	NV	NV	NV	0.25	U		NS			NS			0.25	U		0.25	U		0.25	U		0.54	J		0.25	U		0.25	U		0.25	U	
Trichloroethylene	100	5	NV	NV	NV	0.26	U		NS			NS			0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U	
Vinyl chloride	1	2	NV	NV	NV	0.22	U		NS			NS			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Pentachlorophenol	NV	1	NV	NV	NV	NS			NS			4.9	U		5.1	U		5.2	U		5.2	U		5.1	U		5.1	U		5.2	U		5.3	U	
1,2-Dichlorobenzene	NV	600	NV	NV	NV	NS			NS			0.66	U		0.95	U		0.97	U		0.96	U		0.95	U		0.95	U		0.96	U		0.98	U	
Dibenzofuran	NV	NV	NV	NV	NV	NS			NS			0.72	U		0.48	U		0.49	U		0.48	U		0.48	U		0.48	U		0.48	U		0.49	U	
1-Methylnaphthalene	30	NV	NV	NV	NV	NS			NS			0.68	U		0.48	U		0.49	U		0.48	U		0.48	U		0.60	J		0.48	U		0.49	U	
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Gasoline Range Organics (C6-C10)	50 [6]	NV	NV	NV	NV	0.050	U		NS			NS			0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [6]	NV	NV	NV	NV	NS			0.096	U		NS			0.098	U		0.096	U		0.096	U		0.145	J		0.325			1.08			0.097	U		0.101	J	
Oil Range Organics (>C22-C36)	50 [6]	NV	NV	NV	NV	NS			0.271			NS			0.098	U		0.096	U		0.096	U		0.115	J		0.210	J		0.104	J		0.107	J		0.111	J	
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
All PCBs	1	0.5	NV	NV	NV	NS			ND			NS			ND			ND			ND			ND			ND			ND			ND		
Total TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	1,043	NV	1,042.43	**1,740**			NS			NS			72.1	J		76.2	J	J	49.9	J	J	96.6	J		164	J		458			431			944		
Antimony	NV	6	6	NV	10.00	2.6	U		NS			NS			3.8	J		4.0	J		3.0	J		4.5	J		4.3	J		4.0	J		3.0	J		2.0	U	
Arsenic	100	10	10	NV	25.93	**21.2**			NS			NS			**16.4**			**15.6**			**11.9**			4.9	J	J	5.2	J	J	**16.4**		J	**35.5**			**10.8**		
Barium	1,000	2,000	38	NV	38.00	27.6	J		NS			NS			10.4	J		12.9	J		11.6	J		49.5	J		55.9	J		53.0	J		41.5	J		52.5	J	
Calcium	NV	NV	1,136,664	NV	1,136,663.50	653,000			NS			NS			492,000			540,000			505,000			585,000			543,000			577,000			631,000			642,000		
Chromium	50	100	12	NV	12.00	8.3	J		NS			NS			2.0	U		1.0	U		1.0	U		14.1			1.0	U		1.0	U		1.0	U		1.0	U	
Cobalt	50	NV	36	NV	36.00	1.0	J		NS			NS			2.1	J		1.0	U		1.0	U		1.0	U		1.0	U		**94.2**			1.0	U		2.8	J	
Copper	1,000	1,300	9.8	NV	9.80	7.3	J		NS			NS			1.3	J		2.0	U		2.0	U		2.8	J		2.0	U		6.0	J		2.0	U		2.0	U	
Iron	1,000	300 [7]	300	NV	1,306.82	**1,260**			NS			NS			29	U		35	U		35	U		41.2	J		76.3	J		**318**			294	J		**718**		
Lead	50	15	9	NV	9.00	2.2	U		NS			NS			1.1	U		1.0	U		1.0	U		1.0	U		1.0	U		2.2	J		1.0	U		1.0	U	
Magnesium	NV	NV	3,692,782	NV	3,692,781.50	769,000			NS			NS			346,000			345,000			316,000			292,000			55,300			224,000			148,000			168,000		
Manganese	200	50 [7]	50	NV	745.38	**120**			NS			NS			38.9			13.1	J		12.8	J		**80.2**			28.4			**1,350**			**428**			**633**		
Mercury	2	2	0.5	NV	0.44	0.050	U		NS			NS			0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U	
Nickel	200	NV	22	NV	21.97	15.5	J		NS			NS			15.2	J		2.0	U		2.0	U		2.0	U		2.0	U		148		J	2.6	J		8.8	J	
Potassium	NV	NV	212,144	NV	212,143.56	17,100		J	NS			NS			14,200		J	4,990	J		4,590	J		34,600		J	7,010	J	J	17,100		J	15,900			10,900		
Selenium	50	50	50	NV	129.52	6.8	J		NS			NS			2.0	U		3.1	J	J	3.1	J	J	6.3	J	J	2.0	U		2.0	U		2.0	U		2.0	U	
Silver	50	100 [7]	10	NV	10.00	0.50	U		NS			NS			0.50	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Sodium	NV	NV	20,989,585	NV	20,989,585.00	3,260,000			NS			NS			817,000			748,000			746,000			1,020,000			79,700			99,200			121,000			247,000		
Thallium	NV	2	2	NV	15.00	2.6	U		NS			NS			**3.0**	J		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U	
Vanadium	NV	NV	90	NV	90.02	216			NS			NS			103			91.9			85.7			74.7			32.1	J		105			36.2	J		40.7	J	
Zinc	10,000	5,000 [7]	17	NV	16.95	10	U		NS			NS			5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U	
Dissolved TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	54	54.00	NV	NS			52.3	J		NS			**57.0**	J		25	U		25	U		46.0	J		47.6	J		**151**	J		25	U		25	U	
Antimony	NV	6	6	10.00	NV	NS			**8.7**	J		NS			5.6	J		2.1	J		2.0	U		4.1	J		2.0	U		3.3	J		2.0	J		2.0	U	
Arsenic	100	10	10	28.53	NV	NS			**18.0**			NS			**17.9**			**14.9**			**14.4**			4.6	J	J	3.6	J	J	**18.7**		J	**33.4**			**11.3**		
Barium	1,000	2,000	30.2	30.13	NV	NS			20.9	J		NS			10.8	J		11.2	J		11.1	J		52.2	J		48.9	J		47.8	J		34.3	J		42.0	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	NS			726,000			NS			520,000			543,000			529,000			614,000			536,000			538,000			608,000			612,000		
Chromium	50	100	2.5	2.50	NV	NS			4.0	U		NS			2.0	U		1.0	U		1.0	U		15.1			1.0	U		1.0	U		1.0	U		1.0	U	
Cobalt	50	NV	2.6	2.60	NV	NS			0.50	U		NS			2.1	J		1.0	U		1.0	U		1.0	U		1.0	U		**90.0**			1.0	U		3.2	J	
Copper	1,000	1,300	22	57.46	NV	NS			7.4	J		NS			1.0	U		2.0	U		2.0	U		2.9	J		2.0	U		4.7	J		2.0	U		2.0	U	
Iron	1,000	300 [7]	65.6	65.56	NV	NS			29	U		NS			29	U		35	U		35	U		35	U		35	U		82.7	J		35	U		35	U	
Lead	50	15	9	9.00	NV	NS			5.4	J		NS			1.1	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	NS			913,000			NS			371,000			313,000			304,000			311,000			49,600			220,000			131,000			152,000		
Manganese	200	50 [7]	50	118.65	NV	NS			22.0	J		NS			39.4			11.8	J		11.2	J		**81.6**			21.4			**1,260**			**384**			**580**		
Nickel	200	NV	15.9	15.89	NV	NS			13.6	J		NS			15.8	J		2.0	U		2.0	U		2.0	U		2.0	U		142		J	2.9	J		9.0	J	
Potassium	NV	NV	120,480	120,479.98	NV	NS			20,000			NS			14,400		J	5,340	J		5,140	J		37,200		J	6,230	J	J	16,300		J	14,700			10,500		
Selenium	50	50	25.3	25.26	NV	NS			7.9	J		NS			2.0	U		7.2	J	J	8.4	J	J	10.9		J	2.0	U		2.0	U		2.0	U		2.0	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	NS			3,750,000		J	NS			880,000			723,000			691,000			1,100,000			80,100			99,000			122,000			261,000		
Thallium	NV	2	2	15.00	NV	NS			**8.6**	J		NS			1.3	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		1.9	U		**2.1**	J	
Vanadium	NV	NV	73.8	73.73	NV	NS			184			NS			106			86.0			84.5			78.8			27.9	J		116			31.3	J		34.9	J	
Zinc	10,000	5,000 [7]	23	56.28	NV	NS			10	U		NS			5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Solids, Total Dissolved	1,000	500 [7]	NV	NV	65,956.58	**12,200**			NS			NS			**5,800**			**5,570**			**5,590**			**6,580**			**2,720**			**3,780**			**3,420**			**3,820**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NS = Not sampled

Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature:
SS18 = Chromic Acid Spill Site
MW = Monitoring Well
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] Table 6-3, TPH Screening Guidelines for Unknown Oil, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Unknown Oil, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below any established New Mexico Groundwater Quality Standard and USEPA MCL

Table 7-2
SACM Groundwater Analytical Results (September 2012)
Site SS-18 Accelerated Corrective Measures Completion Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background			SS18-MW28			SS18-MW29			SS18-MW30			SS18-MW30-A			S51-MW1			S51-MW3			S51-MW3-A			S51-MW4			S51-MW5			S51-MW7		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL[2]	NMED Approved Background[3]	Dissolved Metals in Groundwater UTL[4]	Total Metals in Groundwater UTL[4]	F96920-18			F96920-5			F96920-14			F96920-16			F96812-11			F96920-1			F96920-3			F96812-21			F96812-19			F96812-15		
Date Sampled:						9/13/2012			9/12/2012			9/13/2012			9/13/2012			9/12/2012			9/12/2012			9/12/2012			9/12/2012			9/12/2012			9/12/2012		
Analyte						Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzene	10	5	NV	NV	NV	0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.21	J		0.20	U		0.20	U		0.20	U		0.20	U	
Bromodichloromethane	NV	NV	NV	NV	NV	0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
sec-Butylbenzene	NV	NV	NV	NV	NV	0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
tert-Butylbenzene	NV	NV	NV	NV	NV	0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U		0.27	U	
Chloroform	100	NV	NV	NV	NV	0.22	U		0.22	U		3.6			3.5			0.22	U		0.22	U		0.22	U		1.1			0.22	U		0.22	U	
o-Chlorotoluene	NV	NV	NV	NV	NV	0.22	U		0.64	J		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U	
1,1-Dichloroethane	25	NV	NV	NV	NV	0.25	U		0.76	J		0.83	J		0.82	J		0.25	U		14.3			14.1			0.44	J		0.25	U		0.25	U	
1,1-Dichloroethylene	5	7	NV	NV	NV	0.23	U		0.33	J		0.23	U		0.23	U		0.23	U		4.9			4.3			0.23	U		0.23	U		0.23	U	
1,2-Dichloroethane	10	5	NV	NV	NV	0.20	U		0.20	U		0.20	U		0.26	J		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
Dichlorodifluoromethane	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.85	J		0.83	J		0.50	U		0.50	U		0.50	U		1.2	J		0.50	U		0.50	U	
cis-1,2-Dichloroethylene	NV	70	NV	NV	NV	0.26	U		2.8			0.26	U		0.26	U		0.26	U		**103**			**99.9**			0.26	U		0.26	U		0.26	U	
m-Dichlorobenzene	NV	NV	NV	NV	NV	0.20	U		0.34	J		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
o-Dichlorobenzene	NV	600	NV	NV	NV	0.25	U		1.9			0.36	J	J	0.30	J	J	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U	
p-Dichlorobenzene	NV	75	NV	NV	NV	0.23	U		0.59	J		0.23	U		0.23	U		0.23	U		0.73	J		0.70	J		0.23	U		0.23	U		0.23	U	
trans-1,2-Dichloroethylene	NV	100	NV	NV	NV	0.35	U		3.4			0.35	U		0.35	U		0.35	U		5.4			4.9			0.35	U		0.35	U		0.35	U	
Methylene chloride	100	5	NV	NV	NV	2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	NV	NV	0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		1.2			0.99	J		0.34	U		0.34	U		0.34	U	
1,1,1-Trichloroethane	60	200	NV	NV	NV	0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U	
1,2,3-Trichlorobenzene	NV	NV	NV	NV	NV	0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethylene	20	5	NV	NV	NV	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		**26.8**			**23.8**			3.8			2.0			0.25	U	
Trichloroethylene	100	5	NV	NV	NV	0.26	U		**9.5**			3.7			3.5			0.26	U		**83.2**			**71.5**			1.3			0.60	J		0.46	J	
Vinyl chloride	1	2	NV	NV	NV	0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.35	J		0.28	J		0.22	U		0.22	U		0.22	U	
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Pentachlorophenol	NV	1	NV	NV	NV	5.1	U		5.1	U		5.1	U		5.1	U		5.3	U		5.1	U		5.1	U		6.0	J		5.3	U		5.2	U	
1,2-Dichlorobenzene	NV	600	NV	NV	NV	0.95	U		0.98	J		0.95	U		0.95	U		0.98	U		0.95	U		0.95	U		0.97	U		0.98	U		0.96	U	
Dibenzofuran	NV	NV	NV	NV	NV	0.48	U		0.48	U		0.48	U		0.48	U		0.49	U		0.48	U		0.48	U		0.49	U		0.49	U		0.48	U	
1-Methylnaphthalene	30	NV	NV	NV	NV	0.48	U		0.48	U		0.48	U		0.48	U		0.49	U		0.48	U		0.48	U		0.49	U		0.49	U		0.48	U	
Total Petroleum Hydrocarbons	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Gasoline Range Organics (C6-C10)	50 [6]	NV	NV	NV	NV	0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.160			0.151			0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [6]	NV	NV	NV	NV	0.117	J		0.537			0.102	J		0.096	U		0.096	U		0.162	J		0.152	J		0.095	U		0.096	U		0.099	U	
Oil Range Organics (>C22-C36)	50 [6]	NV	NV	NV	NV	0.150	J		0.309			0.111	J		0.103	J		0.123	J		0.112	J		0.122	J		0.095	U		0.096	U		0.184	J	
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
All PCBs	1	0.5	NV	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND			ND		
Total TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	1,043	NV	1,042.43	304			174	J		610		J	162	J	J	39.9	J		26.1	J		25	U		171	J		254			153	J	
Antimony	NV	6	6	NV	10.00	4.0	J		4.0	U		10	U		10	U		3.1	J		4.0	U		4.0	U		3.6	J		2.9	J		2.9	J	
Arsenic	100	10	10	NV	25.93	**16.3**			**12.7**			**13.3**			**14.0**			**26.8**			**26.8**			**28.9**			**13.5**			**14.8**			**16.9**		
Barium	1,000	2,000	38	NV	38.00	28.3	J		49.9	J		65.7	J		64.1	J		22.5	J		14.4	J		14.7	J		14.8	J		16.8	J		13.6	J	
Calcium	NV	NV	1,136,664	NV	1,136,663.50	523,000			611,000			1,460,000			1,500,000			604,000			732,000			723,000			671,000			708,000			607,000		
Chromium	50	100	12	NV	12.00	1.0	U		2.0	U		5.0	U		5.0	U		1.0	U		2.0	U		2.0	U		1.0	U		1.4	J		11.4		
Cobalt	50	NV	36	NV	36.00	1.0	U		2.1	J		3.6	J		3.5	J		15.4	J		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Copper	1,000	1,300	9.8	NV	9.80	2.1	J		4.0	U		10	U		10	U		2.0	U		4.0	U		4.0	U		2.0	U		2.0	U		2.0	U	
Iron	1,000	300 [7]	300	NV	1,306.82	207	J		**321**			**465**		J	128	J	J	62.9	J		103	J	J	69.6	J	J	101	J		156	J		74.8	J	
Lead	50	15	9	NV	9.00	1.3	J		2.0	U		5.0	U		5.0	U		1.0	U		2.0	U		2.0	U		1.0	U		1.0	U		1.0	U	
Magnesium	NV	NV	3,692,782	NV	3,692,781.50	317,000			199,000			1,070,000			1,110,000			122,000			680,000			664,000			360,000			333,000			304,000		
Manganese	200	50 [7]	50	NV	745.38	**119**			**1,410**			**932**			**947**			**2,250**			**230**			**226**			**227**			**401**			**206**		
Mercury	2	2	0.5	NV	0.44	0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.56	J		0.050	U		0.050	U		0.050	U		0.050	U	
Nickel	200	NV	22	NV	21.97	6.5	J		4.5	J		5.7	J		5.4	J		7.8	J		3.0	J		2.9	J		2.0	U		2.1	J		7.9	J	
Potassium	NV	NV	212,144	NV	212,143.56	17,900			17,300			33,000		J	34,600		J	30,500			32,100		J	32,500		J	15,900			13,800			16,700		
Selenium	50	50	50	NV	129.52	2.0	U		4.0	U		10	U		10	U		2.0	U		4.0	U		4.0	U		2.0	U		2.0	U		2.0	U	
Silver	50	100 [7]	10	NV	10.00	1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.3	J		1.0	U		1.0	U		1.0	U		1.0	U	
Sodium	NV	NV	20,989,585	NV	20,989,585.00	1,150,000			234,000			3,760,000			4,150,000			135,000			3,120,000			3,250,000			1,150,000			932,000			877,000		
Thallium	NV	2	2	NV	15.00	1.9	U		3.7	U		9.3	U		9.3	U		1.9	U		3.7	U		3.7	U		1.9	U		1.9	U		1.9	J	
Vanadium	NV	NV	90	NV	90.02	75.7			1.7	J		18.3	J		22.2	J		107			99.5			106			91.7			69.8			104		
Zinc	10,000	5,000 [7]	17	NV	16.95	5.0	U		10	U		25	U		25	U		5.0	U		10	U		10	U		5.0	U		5.0	U		5.0	U	
Dissolved TAL Metals	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50-200 [7]	54	54.00	NV	25	U		**95.1**	J		25	U		25	U		25	U		25	U		25	U		25	U		25	U		25	U	
Antimony	NV	6	6	10.00	NV	2.0	U		4.0	U		10	U		10	U		2.0	U		4.0	U		4.0	U		2.6	J		2.0	U		2.0	U	
Arsenic	100	10	10	28.53	NV	**16.9**			8.7	J		**13.6**			**13.3**			**28.6**			**25.6**			**28.4**			**15.6**			**18.9**			**18.5**		
Barium	1,000	2,000	30.2	30.13	NV	26.5	J		51.1	J		58.9	J		59.7	J		11.6	J		14.4	J		14.8	J		13.5	J		15.1	J		12.8	J	
Calcium	NV	NV	1,151,302	1,151,301.20	NV	513,000			611,000			1,430,000			1,470,000			596,000			742,000			752,000			683,000			707,000			588,000		
Chromium	50	100	2.5	2.50	NV	1.0	U		2.0	U		5.0	U		5.0	U		1.0	U		2.0	U		2.0	U		1.0	U		1.0	U		1.0	U	
Cobalt	50	NV	2.6	2.60	NV	1.0	U		1.8	J		2.9	J		2.8	J		2.6	J		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Copper	1,000	1,300	22	57.46	NV	2.0	J		4.0	U		10	U		10	U		2.0	U		4.0	U		4.0	U		2.0	U		2.0	U		2.0	U	
Iron	1,000	300 [7]	65.6	65.56	NV	35	U		195	J		35	U		35	U		35	U		35	U		35	U		35	U		35	U		35	U	
Lead	50	15	9	9.00	NV	1.0	U		2.0	U		5.0	U		5.0	U		1.8	J		2.0	U		2.0	U		3.2	J		2.2	J		1.0	U	
Magnesium	NV	NV	3,630,927	3,630,926.70	NV	304,000			201,000			1,050,000			1,090,000			119,000			685,000			684,000			409,000			335,000			293,000		
Manganese	200	50 [7]	50	118.65	NV	**111**			**1,430**			**849**			**896**			**621**			**160**			**190**			**158**			**362**			**131**		
Nickel	200	NV	15.9	15.89	NV	6.3	J		4.4	J		3.8	J		3.8	J		8.4	J		2.5	J		3.2	J		2.0	U		2.7	J		7.6	J	
Potassium	NV	NV	120,480	120,479.98	NV	18,300			18,000			36,300		J	35,000		J	31,900			31,200		J	32,900		J	18,000			15,200			18,500		
Selenium	50	50	25.3	25.26	NV	2.4	J		4.0	U		10	U		10	U		2.0	U		4.0	U		4.0	U		3.9	J	J	2.0	U		2.0	U	
Sodium	NV	NV	19,972,499	19,972,499.00	NV	1,160,000			224,000			4,060,000			4,180,000			130,000			3,050,000			2,940,000			1,340,000			856,000			847,000		
Thallium	NV	2	2	15.00	NV	1.9	U		3.7	U		9.3	U		9.3	U		**3.4**	J		3.7	U		3.7	U		1.9	U		1.9	U		1.9	U	
Vanadium	NV	NV	73.8	73.73	NV	74.8			1.0	U		26.3	J		25.1	J		101			98.1			107			86.5			70.6			104		
Zinc	10,000	5,000 [7]	23	56.28	NV	5.0	U		10	U		25	U		25	U		5.0	U		10	U		10	U		5.0	U		5.0	U		5.0	U	
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Solids, Total Dissolved	1,000	500 [7]	NV	NV	65,956.58	**6,400**			**3,640**			**20,600**			**20,400**			**3,290**			**12,500**			**12,300**			**11,600**			**6,420**			**5,860**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NS = Not sampled

Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
Client Sample Nomenclature:
SS18 = Chromic Acid Spill Site
MW = Monitoring Well
A = Sample suffix denoting a duplicate sample

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[6] Table 6-3, TPH Screening Guidelines for Unknown Oil, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Unknown Oil, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below any established New Mexico Groundwater Quality Standard and USEPA MCL

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP01-4**	**SS18-DP01-4A**	**SS18-DP02-3**	**SS18-DP03-3**	**SS18-DP04-5**	**SS18-DP05-5**	**SS18-DP06-5**	**SS18-DP07-3**	**SS18-DP07-8**
Sample Depth (ft bgs)	**4**	**4**	**3**	**3**	**5**	**5**	**5**	**3**	**8**
Date Sampled	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/5/2007**	**6/6/2007**	**6/6/2007**	**8/20/2009**	**8/20/2009**
VOCs (mg/kg)									
Acetone	<0.023	<0.026	<0.026	<0.021	<0.026	<0.022	<0.025	<0.061	<0.051
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	<0.061	<0.051
n-Butylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
sec-Butylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	<0.0061	<0.0051
1,1-Dichloroethane	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	**0.00039 J**	<0.0061	<0.0051
1,1-Dichloroethylene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
cis-1,2-Dichloroethylene	<0.0028	<0.0033	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.0061	<0.0051
Ethylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
2-Hexanone	<0.023	<0.026	<0.026	<0.021	<0.026	<0.022	<0.025	<0.031	<0.025
Hexachlorobutadiene	**0.00087 JB**	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Isopropylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
p-Isopropyltoluene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Methylene chloride	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.012	**0.0071 J**
Naphthalene	**0.0014 JB**	**0.001 JB**	<0.0064	<0.0053	<0.0065	<0.0055	**0.0012 J**	<0.0061	<0.0051
n-Propylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
1,1,1-Trichloroethane	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
1,2,4-Trimethylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
1,3,5-Trimethylbenzene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Tetrachloroethene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Toluene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
Trichloroethylene	<0.0057	<0.0065	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051
m,p-Xylene	<0.0028	<0.0033	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.012	<0.01
o-Xylene	<0.0028	<0.0033	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.0061	<0.0051
SVOCs (mg/kg)									
Benzo(a)anthracene	**0.045 J**	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
Benzo(b)fluoranthene	<0.87	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
Chrysene	**0.048 J**	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
bis(2-Ethylhexyl)phthalate	<0.87	<0.96	<0.89	<0.81	**0.074 J**	<0.8	<0.85	<0.39	<0.38
Fluoranthene	<0.87	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
Fluorene	<0.87	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
Phenanthrene	<0.87	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
Pyrene	<0.87	<0.96	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	**1.0 JB**	**1.2 JB**	**1.7 B**	**1.0 JB**	**0.88 JB**	**0.80 JB**	**0.72 JB**	<6.9	<6
Diesel Range Organics (C10-C22)	**2.3 JB**	**2.5 JB**	**2.3 JB**	**5.5 B**	**2.4 JB**	**2.0 JB**	**2.2 JB**	<9.5	<9.5
Oil Range Organics (>C22-C36)	<5.3	<5.8	<5.4	**46**	**16**	<4.8	<5.1	<9.5	<9.5
Metals (mg/kg)									
Aluminum	**3,300**	**1,700**	**3,900**	**6,800**	**2,500 J**	**6,200 J**	**3,300 J**	**458**	**3,540**
Antimony	<2	<2.2	<2	<1.8	<2	<1.8	<1.9	<34	<33
Arsenic	**1.8 B**	**1.4 B**	**1.5 B**	**2.0 B**	**1.3 B**	**1.7 B**	**2.4 B**	<4.5	<4.4
Barium	**22**	**14**	**87**	**67**	**35**	**27**	**54**	**15.1**	**33.4**
Beryllium	<0.66	<0.72	<0.67	**0.25 B**	<0.67	**0.20 B**	<0.64	**0.12 J**	**0.29**
Cadmium	<0.66	<0.72	<0.67	**0.2 B**	**0.13 B**	**0.063 B**	**0.053 B**	<1.1	<1.1
Calcium	**150,000 J**	**210,000 J**	**180,000 J**	**140,000 J**	**210,000 J**	**180,000 J**	**200,000 J**	**153,000**	**147,000**
Chromium	**3.6**	**1.9 B**	**3.7**	**8**	**4.4**	**6.2**	**3**	<1.1	**2.8**
Chromium (VI)	**0.042 JB**	**0.033 JB**	<0.13	**0.027 JB**	**0.031 JB**	<0.12	**0.04 JB**	NA	NA
Cobalt	**1.4**	**0.69 B**	**1.2 B**	**2.4**	**1.2 B**	**1.6**	**1.0 B**	**0.68 J**	**1.1 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP01-4**	**SS18-DP01-4A**	**SS18-DP02-3**	**SS18-DP03-3**	**SS18-DP04-5**	**SS18-DP05-5**	**SS18-DP06-5**	**SS18-DP07-3**	**SS18-DP07-8**
Sample Depth (ft bgs)	**4**	**4**	**3**	**3**	**5**	**5**	**5**	**3**	**8**
Date Sampled	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/5/2007**	**6/6/2007**	**6/6/2007**	**8/20/2009**	**8/20/2009**
Copper	**1.7 B**	**0.89 B**	**3**	**5.6**	**3.2**	**2.1 B**	**2.4 B**	**1.6**	**1.4**
Iron	**3,000**	**1,400**	**3,000**	**6,300**	**2,200 J**	**4,400 J**	**2,400 J**	**258**	**2,540**
Lead	**3.4**	**3.1**	**3.7**	**9.9**	**12**	**3.5**	**2.5**	<57	<55
Magnesium	**2,000**	**1,600**	**3,600**	**12,000**	**4,200 J**	**4,300 J**	**1,800 J**	**1,890**	**3,500**
Manganese	**33**	**20**	**37**	**130**	**44**	**63**	**46**	**5.8**	**37.3**
Mercury	<0.044	<0.048	<0.044	<0.04	<0.044	<0.04	<0.042	<0.094	<0.085
Nickel	**3.4 B**	**1.5 B**	**2.8 B**	**6.4**	**4.5 B**	**4.8**	**2.7 B**	<11	**2.7 J**
Potassium	**990**	**550**	**1,100**	**2,100**	**690**	**1,600**	**840**	**243 J**	**1,150**
Selenium	<1.7	<1.9	<1.8	<1.6	<1.7	<1.6	<1.7	**3.5 J**	**4.6 J**
Silver	<1.3	<1.4	<1.3	<1.2	<1.3	<1.2	<1.3	<0.57	<0.55
Sodium	**220 JB**	**230 JB**	**380 JB**	**540 JB**	**740**	**290 B**	**710**	**304 J**	**389 J**
Vanadium	**15**	**11**	**10**	**16**	**8.2**	**12**	**8.8**	**4.8**	**9.1**
Zinc	**8.0 J**	**4.6 J**	**9 J**	**24 J**	**12**	**11**	**8.1**	**1.2**	**7.7**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP08-3**	**SS18-DP08-8**	**SS18-DP09-3**	**SS18-DP09-8**	**SS18-DP10-3**	**SS18-DP10-7**	**SS18-DP11-4**	**SS18-DP11-7**	**SS18-DP12-3**
Sample Depth (ft bgs)	**3**	**8**	**3**	**8**	**3**	**7**	**4**	**7**	**3**
Date Sampled	**8/20/2009**	**8/20/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/18/2009**
VOCs (mg/kg)									
Acetone	<0.054	<0.055	<0.049	<0.057	<0.056	<0.052	<0.047	<0.051	<0.057
Acetonitrile	<0.054	<0.055	<0.049	<0.057	<0.056	<0.052	<0.047	<0.051	**0.0233 J**
n-Butylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0443**	<0.0047	<0.0051	<0.0057
sec-Butylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0289**	<0.0047	<0.0051	<0.0057
Carbon disulfide	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0042 J**	<0.0047	<0.0051	<0.0057
1,1-Dichloroethane	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
1,1-Dichloroethylene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
cis-1,2-Dichloroethylene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
Ethylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0397**	<0.0047	<0.0051	<0.0057
2-Hexanone	<0.027	<0.028	<0.024	<0.028	<0.028	<0.026	<0.024	<0.025	<0.029
Hexachlorobutadiene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0056	<0.0047	<0.0051	<0.0057
Isopropylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0184**	<0.0047	<0.0051	<0.0057
p-Isopropyltoluene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0304**	<0.0047	<0.0051	<0.0057
Methylene chloride	<0.011	<0.011	**0.0062 J**	<0.011	<0.011	**0.0078 J**	**0.0119**	**0.0098 J**	**0.0133 B**
Naphthalene	<0.0054	<0.0055	<0.006	<0.0057	<0.0058	**0.119**	<0.0047	<0.0051	<0.0057
n-Propylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0469**	<0.0047	<0.0051	<0.0057
1,1,1-Trichloroethane	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
1,2,4-Trimethylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.102**	<0.0047	<0.0051	<0.0057
1,3,5-Trimethylbenzene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0192**	<0.0047	<0.0051	<0.0057
Tetrachloroethene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
Toluene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
Trichloroethylene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057
m,p-Xylene	<0.011	<0.011	<0.0097	<0.011	<0.011	**0.0155**	<0.0094	<0.01	<0.011
o-Xylene	<0.0054	<0.0055	<0.0049	<0.0057	<0.0056	**0.0018 J**	<0.0047	<0.0051	<0.0057
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	<0.2	<0.19
Benzo(b)fluoranthene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0576 J**	<0.19
Chrysene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0401 J**	<0.19
bis(2-Ethylhexyl)phthalate	<0.39	<0.41	<0.38	<0.4	<0.4	<0.4	<0.36	**0.716**	<0.39
Fluoranthene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0519 J**	<0.19
Fluorene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0504 J**	<0.19
Phenanthrene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.123 J**	<0.19
Pyrene	<0.2	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0478 J**	<0.19
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<6.6	<6.8	<5.8	<7	<6.5	**22.6**	<5.3	**4.47 J**	<5.9
Diesel Range Organics (C10-C22)	<9.9	<10	<9.4	<9.9	<9.7	<9.9	<8.9	**20.3**	<9.6
Oil Range Organics (>C22-C36)	<9.9	<10	<9.4	<9.9	**7.13 J**	<9.9	<8.9	**13.6**	<9.6
Metals (mg/kg)									
Aluminum	**1,320**	**2,370**	**7,190**	**3,540**	**2,190**	**3,590**	**5,180**	**3,490**	**9,900**
Antimony	<35	<36	<17	<35	<35	<34	<32	<35	<17
Arsenic	<4.6	<4.9	**1.7 J**	<4.7	**2.5 J**	<4.6	<4.3	<4.7	**3.3**
Barium	**15**	**62.2**	**92.3**	**35.6**	**34.4**	**36.1**	**80.6**	**34**	**124**
Beryllium	**0.17 J**	**0.27 J**	**0.43**	**0.29**	**0.18 J**	**0.27 J**	**0.44**	**0.24 J**	**0.96 J**
Cadmium	<1.2	<1.2	<1.1	<1.2	<1.2	<1.1	**0.36**	**0.51 J**	<1.1
Calcium	**204,000**	**172,000**	**112,000**	**155,000**	**191,000**	**155,000**	**181,000**	**148,000**	**93,500**
Chromium	**0.67**	**1.8**	**4.9**	**2.8**	**1.3**	**3.6**	**5.2**	**5.6**	**8.5**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**0.69 J**	**0.81 J**	**2 J**	**1.1 J**	**0.99 J**	**1.2 J**	**2.3 J**	**1.2 J**	**3.5 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP08-3**	**SS18-DP08-8**	**SS18-DP09-3**	**SS18-DP09-8**	**SS18-DP10-3**	**SS18-DP10-7**	**SS18-DP11-4**	**SS18-DP11-7**	**SS18-DP12-3**
Sample Depth (ft bgs)	**3**	**8**	**3**	**8**	**3**	**7**	**4**	**7**	**3**
Date Sampled	**8/20/2009**	**8/20/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/18/2009**
Copper	**2**	**2.5**	**4**	**1.2 J**	**1.5**	**2.2**	**5.6**	**4.4**	**6.4 J**
Iron	**862**	**1,720**	**4,870**	**2,780**	**1,510**	**2,690**	**4,740**	**2,920**	**8,130**
Lead	<58	<61	**2.7 J**	<58	<59	**5.6 J**	**3.8 J**	**10.8 J**	**4.5 J**
Magnesium	**2,250**	**3,470**	**6,020**	**1,830**	**1,200 J**	**2,410**	**7,200**	**3,130**	**3,980**
Manganese	**13.3**	**19.6**	**84.8**	**35.8**	**23.7**	**67.2**	**195**	**49.7**	**134**
Mercury	<0.099	<0.1	<0.096	<0.094	<0.088	<0.087	<0.08	**0.017 J**	<0.088
Nickel	**1.3 J**	**2 J**	**4.6 J**	**2.5 J**	**1.9 J**	**2.9 J**	**5.3**	**3.4 J**	**7.4 J**
Potassium	**548 J**	**886**	**2,120**	**1,140**	**804**	**1,200**	**1,410**	**1,180**	**2,460 J**
Selenium	**4.7 J**	**5.1 J**	**2.8 J**	**6 J**	**5.6 J**	**3.9 J**	**4 J**	**5.1 J**	**2.2 J**
Silver	<0.58	<0.61	<0.56	<0.58	<0.59	<0.57	<53	**0.6**	<2.8
Sodium	**235 J**	**336 J**	**330 J**	**271 J**	**236 J**	**232 J**	**298 J**	**215 J**	<2,800
Vanadium	**3.4**	**6.9**	**11**	**7.8**	**7.9**	**8.2**	**10.2**	**9.6**	**16.3**
Zinc	**2.9**	**4.4**	**15.5**	**7.8**	**5.2**	**15.6**	**31.1**	**31.4**	**23**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP12-8**	**SS18-DP12-8-A**	**SS18-DP13-4**	**SS18-DP13-8**	**SS18-DP14-3**	**SS18-DP14-7**	**SS18-DP14-7-A**	**SS18-DP16-4**	**SS18-DP16-8**
Sample Depth (ft bgs)	**8**	**8**	**4**	**8**	**3**	**7**	**7**	**4**	**8**
Date Sampled	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**
VOCs (mg/kg)									
Acetone	<0.052	<0.051	<0.057	<0.051	<0.051	<0.055	<0.053	<0.056	<0.053
Acetonitrile	<0.052	<0.051	<0.057	<0.051	<0.051	<0.055	<0.053	<0.056	<0.053
n-Butylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
sec-Butylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Carbon disulfide	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	**0.0013 J**	<0.0056	<0.0053
1,1-Dichloroethane	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
1,1-Dichloroethylene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
cis-1,2-Dichloroethylene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Ethylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
2-Hexanone	<0.026	<0.026	<0.029	<0.025	<0.026	<0.028	<0.027	<0.028	<0.027
Hexachlorobutadiene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Isopropylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
p-Isopropyltoluene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Methylene chloride	<0.01	**0.0068 JB**	**0.0146 B**	**0.0196 B**	<0.01	<0.011	<0.011	<0.011	**0.0073 JB**
Naphthalene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
n-Propylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
1,1,1-Trichloroethane	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
1,2,4-Trimethylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
1,3,5-Trimethylbenzene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Tetrachloroethene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Toluene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
Trichloroethylene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
m,p-Xylene	<0.01	<0.01	<0.011	<0.01	<0.01	<0.011	<0.011	<0.011	<0.011
o-Xylene	<0.0052	<0.0051	<0.0057	<0.0051	<0.0051	<0.0055	<0.0053	<0.0056	<0.0053
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
Benzo(b)fluoranthene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
Chrysene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
bis(2-Ethylhexyl)phthalate	<0.38	<0.37	<0.39	<0.38	<0.38	<0.39	<0.39	<0.4	<0.38
Fluoranthene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
Fluorene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
Phenanthrene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
Pyrene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<5.4	<5.3	<6.7	<6.1	<5.9	<6.7	<6.2	<6.5	<5.7
Diesel Range Organics (C10-C22)	<9.3	<9.3	<10	<9.3	<9.3	<9.9	<9.6	<10	<9.4
Oil Range Organics (>C22-C36)	<9.3	<9.3	<10	<9.3	<9.3	<9.9	<9.6	<10	<9.4
Metals (mg/kg)									
Aluminum	**3,590**	**3,850**	**5,100**	**4,590**	**5,460**	**2,540**	**2,440**	**3,080**	**3,290**
Antimony	<34	<32	**3 J**	<33	<16	<17	<18	<35	<32
Arsenic	<4.5	<4.3	<4.6	<4.3	**1.7 J**	<2.3	<2.3	<4.7	<4.3
Barium	**33.9 J**	**35.9 J**	**225**	**36.1**	**147**	**22.5**	**19.9**	**75.6 J**	**23.1 J**
Beryllium	<2.8	<2.7	**0.27 J**	**0.29**	**0.38**	**0.24 J**	**0.25 J**	<2.9	<2.7
Cadmium	<2.2	<2.1	<0.23	<0.22	<0.22	<0.23	<0.23	<2.3	<2.1
Calcium	**157,000**	**161,000**	**159,000**	**152,000**	**97,200**	**128,000**	**143,000**	**164,000**	**163,000**
Chromium	<5.6	**1.3 J**	**3.4**	**3.9**	**4**	**2.6**	**2.3**	**2.6 J**	**2.7 J**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**1 J**	**1.1 J**	**1.3 J**	**1.2 J**	**1.6 J**	**0.82 J**	**0.81 J**	**1.1 J**	**1.3 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP12-8**	**SS18-DP12-8-A**	**SS18-DP13-4**	**SS18-DP13-8**	**SS18-DP14-3**	**SS18-DP14-7**	**SS18-DP14-7-A**	**SS18-DP16-4**	**SS18-DP16-8**
Sample Depth (ft bgs)	**8**	**8**	**4**	**8**	**3**	**7**	**7**	**4**	**8**
Date Sampled	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**
Copper	**2.6 J**	**4.4 J**	**2.7**	**1.2 J**	**2.9**	**0.99 J**	**1 J**	<15	<13
Iron	**2,900**	**3,200**	**3,100**	**3,110**	**3,710**	**2,250**	**2,120**	**2,530**	**2,890**
Lead	<56	<53	<58	<54	**1.8 J**	<28	<29	<58	<54
Magnesium	**3,650**	**3,870**	**1,420**	**2,730**	**1,340**	**1,270**	**1,210**	**1,250 J**	**2,010 J**
Manganese	**38**	**40.5**	**37.7**	**40.8**	**51.7**	**18.8**	**17.5**	**41.3**	**51.9**
Mercury	<0.089	<0.087	<0.094	<0.094	<0.095	<0.095	<0.086	<0.099	**0.015 J**
Nickel	**2.4 J**	**14.6 J**	**3.1**	**3.2**	**3.7**	**1.6 J**	**1.7 J**	**2.2 J**	**2.8 J**
Potassium	**1,270 J**	**1,280 J**	**1,430**	**1,540**	**1,420**	**851**	**823**	**1,020 J**	**1,140 J**
Selenium	**3.9 J**	**4.3 J**	**3.2 J**	**3.7 J**	**1.7 J**	**1.9 J**	**3.1 J**	**4.5 J**	**3.3 J**
Silver	<5.6	<5.3	<0.58	<0.54	<0.55	<0.57	<0.59	<5.8	<5.4
Sodium	<5,600	<5,300	**179 J**	**319 J**	**72.9 J**	**296 J**	**336 J**	<5,800	<5,400
Vanadium	**9.3 J**	**10.6 J**	**9.8**	**9.8**	**10**	**9.2**	**9.3**	**6.3 J**	**8.5 J**
Zinc	**8 J**	**8.9 J**	**10.6**	**8.7**	**11.6**	**5.7**	**5.5**	**7.4 J**	**7.7 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP17-4**	**SS18-DP17-6**	**SS18-DP17-6-A**	**SS18-DP18-2**	**SS18-DP18-8**	**SS18-DP19-2**	**SS18-DP19-8**	**SS18-DP20-3**	**SS18-DP20-7**
Sample Depth (ft bgs)	**4**	**6**	**6**	**2**	**8**	**2**	**8**	**3**	**7**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**
VOCs (mg/kg)									
Acetone	<0.06	<0.052	<0.058	<0.056	<0.05	<0.059	<0.054	<0.053	**0.102**
Acetonitrile	<0.06	<0.052	<0.058	<0.056	<0.05	<0.059	<0.054	<0.053	**0.106**
n-Butylbenzene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
sec-Butylbenzene	<0.006	**0.0046 J**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Carbon disulfide	<0.006	**0.0097**	**0.0165**	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	**0.032**
1,1-Dichloroethane	**0.0086**	**0.195**	**0.018**	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	**0.0585**
1,1-Dichloroethylene	<0.006	**0.0061**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	**0.0021 J**
cis-1,2-Dichloroethylene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Ethylbenzene	<0.006	**0.0397**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
2-Hexanone	<0.03	<0.026	<0.029	<0.028	**0.0062 JB**	<0.029	<0.027	<0.026	<0.03
Hexachlorobutadiene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Isopropylbenzene	<0.006	**0.0046 J**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
p-Isopropyltoluene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Methylene chloride	<0.012	**0.0079 JB**	<0.012	**0.0076 JB**	**0.0055 JB**	<0.012	<0.011	<0.011	<0.012
Naphthalene	<0.006	**0.0265**	<0.0058	<0.0056	<0.0047	<0.0059	<0.0054	<0.0053	<0.006
n-Propylbenzene	<0.006	**0.0054**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
1,1,1-Trichloroethane	**0.0052 J**	**0.0318**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	**0.0028 J**	**0.0333**
1,2,4-Trimethylbenzene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
1,3,5-Trimethylbenzene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Tetrachloroethene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
Toluene	<0.006	**0.0047 J**	<0.0058	<0.0056	<0.005	**0.0034 J**	<0.0054	<0.0053	<0.006
Trichloroethylene	<0.006	<0.0052	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
m,p-Xylene	<0.012	<0.01	<0.012	<0.011	<0.0099	<0.012	<0.011	<0.011	<0.012
o-Xylene	<0.006	**0.0046 J**	<0.0058	<0.0056	<0.005	<0.0059	<0.0054	<0.0053	<0.006
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
Benzo(b)fluoranthene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
Chrysene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
bis(2-Ethylhexyl)phthalate	<0.43	<0.41	<0.42	<0.39	<0.4	<0.38	<0.38	<0.39	<0.43
Fluoranthene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
Fluorene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
Phenanthrene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
Pyrene	<0.21	<0.2	<0.21	<0.19	<0.2	<0.19	<0.19	<0.19	<0.22
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<7.7	<6.4	<6.5	<6.6	<6	<6.2	<5.7	<6	<8
Diesel Range Organics (C10-C22)	<11	**11.7**	**146**	<9.6	<9.9	<9.7	<9.5	<9.6	<11
Oil Range Organics (>C22-C36)	<11	**11.8**	**61.1**	**20.8**	<9.9	<9.7	<9.5	<9.6	<11
Metals (mg/kg)									
Aluminum	**731**	**3,270**	**3,320**	**585**	**2,820**	**3,060**	**3,570**	**4,610**	**3,160**
Antimony	<38	<18	<18	<33	<36	<34	<33	<33	<19
Arsenic	<5.1	<2.3	<2.4	<4.4	<4.8	<4.6	**2.4 J**	<4.4	<2.6
Barium	**18 J**	**30.8 J**	**31.4 J**	**16.8 J**	**29.8 J**	**42.7 J**	**26.8 J**	**44.3**	**30.9**
Beryllium	<3.2	<1.5	<1.5	<2.8	<3	<2.9	<2.7	**0.27 J**	**0.28 J**
Cadmium	<2.5	<1.2	<1.2	<2.2	<2.4	<2.3	<2.2	**0.061 J**	<0.26
Calcium	**223,000**	**135,000**	**128,000**	**214,000**	**150,000**	**175,000**	**152,000**	**157,000**	**137,000**
Chromium	<6.3	**3.8**	**3.7**	<5.5	**2.7 J**	**2.6 J**	**3.7 J**	**3.2**	**2.9**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	<32	**1.4 J**	**1.6 J**	<28	**0.73 J**	**1.4 J**	**1.9 J**	**1.3 J**	**0.93 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP17-4**	**SS18-DP17-6**	**SS18-DP17-6-A**	**SS18-DP18-2**	**SS18-DP18-8**	**SS18-DP19-2**	**SS18-DP19-8**	**SS18-DP20-3**	**SS18-DP20-7**
Sample Depth (ft bgs)	**4**	**6**	**6**	**2**	**8**	**2**	**8**	**3**	**7**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**
Copper	<16	**1.7 J**	**1.5 J**	<14	**1.3 J**	**1.8 J**	**1.4 J**	**2.7**	**1.5 J**
Iron	**625**	**3,660**	**3,730**	**484**	**2,330**	**2,520**	**3,250**	**2,840**	**2,290**
Lead	<63	<29	**1.3 J**	**3.5 J**	<60	<57	<54	<55	<32
Magnesium	**683 J**	**1,850**	**1,890**	**1,440 J**	**2,650 J**	**2,320 J**	**2,210 J**	**4,100**	**1,670**
Manganese	**11.4**	**43.3**	**59.4**	**5.4 J**	**35.6**	**39.7**	**42.4**	**52.9**	**48.6**
Mercury	<0.099	<0.094	<0.1	<0.088	<0.098	<0.094	<0.095	<0.096	<0.11
Nickel	<25	**2.7 J**	**2.8 J**	<22	**2 J**	**2.4 J**	**3.3 J**	**3**	**2.1 J**
Potassium	**641 J**	**1,050 J**	**1,050 J**	**543 J**	**1,050 J**	**1,190 J**	**1,240 J**	**1,610**	**1,040**
Selenium	**5.3 J**	**2.8 J**	**2.6 J**	**4.4 J**	**2.7 J**	**5.8 J**	**3.1 J**	**3.7 J**	**3.1 J**
Silver	<6.3	<2.9	<3	<5.5	<6	<5.7	<5.4	<0.55	<0.65
Sodium	<6,300	<2,900	<3,000	<5,500	<6,000	<5,700	<5,400	**237 J**	**247 J**
Vanadium	**2 J**	**8.6 J**	**8.1 J**	**3.5 J**	**7.2 J**	**6.7 J**	**9.3 J**	**18.6**	**6.7**
Zinc	<13	**9**	**9**	<11	**6.4 J**	**7.3 J**	**8.2 J**	**9.5**	**7.3**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP21-3**	**SS18-DP21-8**	**SS18-DP22-3**	**SS18-DP22-8**	**SS18-DP23-3**	**SS18-DP23-8**	**SS18-DP24-10**	**SS18-DP25-8**	**SS18-DP26-8**
Sample Depth (ft bgs)	**3**	**8**	**3**	**8**	**3**	**8**	**10**	**8**	**8**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/19/2009**	**8/19/2009**	**8/14/2012**	**8/15/2012**	**8/14/2012**
VOCs (mg/kg)									
Acetone	<0.065	<0.063	<0.055	<0.052	<0.05	<0.047	<0.049	<0.056	<0.049
Acetonitrile	<0.065	<0.063	<0.055	<0.052	<0.05	<0.047	<0.049	<0.056	<0.049
n-Butylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
sec-Butylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Carbon disulfide	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
1,1-Dichloroethane	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
1,1-Dichloroethylene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
cis-1,2-Dichloroethylene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Ethylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
2-Hexanone	<0.032	<0.032	<0.027	<0.026	<0.025	<0.024	<0.025	<0.028	<0.024
Hexachlorobutadiene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Isopropylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
p-Isopropyltoluene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Methylene chloride	<0.013	<0.013	<0.011	<0.01	**0.0068 J**	<0.0094	<0.0098	<0.011	<0.0097
Naphthalene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
n-Propylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
1,1,1-Trichloroethane	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
1,2,4-Trimethylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
1,3,5-Trimethylbenzene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Tetrachloroethene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Toluene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
Trichloroethylene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
m,p-Xylene	<0.013	<0.013	<0.011	<0.01	<0.01	<0.0094	<0.0098	<0.011	<0.0097
o-Xylene	<0.0065	<0.0063	<0.0055	<0.0052	<0.005	<0.0047	<0.0049	<0.0056	<0.0049
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
Benzo(b)fluoranthene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
Chrysene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
bis(2-Ethylhexyl)phthalate	<0.42	<0.45	<0.39	<0.38	<0.38	<0.4	<0.43	<0.42	<1.6
Fluoranthene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
Fluorene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
Phenanthrene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
Pyrene	<0.21	<0.22	<0.19	<0.19	<0.19	<0.2	<0.22	<0.21	<0.82
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<7.9	<7.9	<6.1	<6	<6.3	<6.5	<7.1	<6.8	<6.6
Diesel Range Organics (C10-C22)	<10	<11	<9.7	<9.5	<9.5	<9.7	<11	<10	**11.5**
Oil Range Organics (>C22-C36)	<10	<11	<9.7	<9.5	<9.5	<9.7	<11	<10	**65**
Metals (mg/kg)									
Aluminum	**1,140**	**3,130**	**9,480**	**4,090**	**8,500**	**5,690**	**3,240**	**5,820**	**3,200**
Antimony	<37	<19	<17	<34	<13	<34	**1.4 J**	<12	<11
Arsenic	<4.9	<2.5	**3.6**	<4.6	**3.2**	<4.6	**2.9 J**	**1.9 J**	**1.6 J**
Barium	**8.9 J**	**29.7 J**	**158**	**30.2 J**	**158**	**18.2**	**34.6 J**	**56.4 J**	**53.4**
Beryllium	<3	<1.6	**0.65 J**	<2.8	**0.46**	**0.37**	<2.4	<1.5	<1.3
Cadmium	<2.4	<1.3	<1.1	<2.3	<0.22	<0.23	<1.9	<2.4	<2.1
Calcium	**220,000**	**123,000**	**113,000**	**154,000**	**79,300**	**150,000**	**193,000**	**171,000**	**217,000**
Chromium	<6.1	**3 J**	**5.5**	<5.7	**6.6**	**4.8**	**4.5 J**	**5.6 J**	**5.8**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**0.84 J**	**1.2 J**	**2.7 J**	**1.4 J**	**2.5 J**	**1.8 J**	**1.1 J**	**1.7 J**	**1.1 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP21-3**	**SS18-DP21-8**	**SS18-DP22-3**	**SS18-DP22-8**	**SS18-DP23-3**	**SS18-DP23-8**	**SS18-DP24-10**	**SS18-DP25-8**	**SS18-DP26-8**
Sample Depth (ft bgs)	**3**	**8**	**3**	**8**	**3**	**8**	**10**	**8**	**8**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/19/2009**	**8/19/2009**	**8/14/2012**	**8/15/2012**	**8/14/2012**
Copper	**2 J**	**0.86 J**	**6.5 J**	**3.3 J**	**4.9**	**1.9**	**2.5 J**	**2.4 J**	**3.5 J**
Iron	**911**	**2,790**	**6,900**	**3,380**	**5,970**	**3,990**	**3,590**	**5,210**	**3,060**
Lead	<61	<32	**3.8 J**	<57	**4.1 J**	<57	**2.2 J**	<12	**1.6 J**
Magnesium	**1,270 J**	**1,780**	**3,950**	**4,540**	**3,350**	**3,090**	**2,480**	**3,520**	**3,990**
Manganese	**10.4**	**37.1**	**107**	**59.6**	**74**	**56.7**	**87.5**	**71**	**84.9**
Mercury	<0.092	<0.098	<0.094	**0.021 J**	<0.096	<0.098	<0.097	<0.1	<0.1
Nickel	<24	**2.4 J**	**6.4 J**	**2.8 J**	**5.2**	**4.2**	**3 J**	**5 J**	**3.5 J**
Potassium	**593 J**	**975 J**	**2,570 J**	**1,390 J**	**2,260**	**1,770**	**854 J**	**1,330 J**	**772 J**
Selenium	**4.5 J**	**2.7 J**	**2.4 J**	**3.1 J**	**2.5 J**	**4.1 J**	<9.4	<12	<11
Silver	<6.1	<3.2	<2.8	<5.7	<0.55	<57	<4.7	<3	<2.6
Sodium	<6,100	<3,200	<2,800	<5,700	**231 J**	**412 J**	<4,700	<3,000	<2,600
Vanadium	**2.1 J**	**6.6 J**	**15.9**	**14.3 J**	**13.9**	**13.5**	**10.9 J**	**13.3 J**	**8.9 J**
Zinc	**4 J**	**7.5**	**21.6**	**10.6 J**	**18.3**	**11**	**12.2**	**11.3 J**	**12.4**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP27-8**	**SS18-DP28-7**	**SS18-DP29-8**	**SS18-DP30-11**	**SS18-DP31-11**	**SS18-DP31-11-**	**SS18-DP32-12**	**SS18-DP33-8**	**SS18-DP33-8-A**
Sample Depth (ft bgs)	**8**	**7**	**8**	**11**	**11**	**11**	**12**	**8**	**8**
Date Sampled	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**
VOCs (mg/kg)									
Acetone	<0.061	<0.053	<0.052	<0.046	<0.05	<0.056	<0.051	<0.055	<0.051
Acetonitrile	<0.061	<0.053	<0.052	<0.046	<0.05	<0.056	<0.051	<0.055	<0.051
n-Butylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
sec-Butylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
Carbon disulfide	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
1,1-Dichloroethane	**0.0028 J**	**0.0063**	**0.0055**	**0.0077**	**0.0027 J**	**0.0025 J**	**0.0145**	<0.0055	<0.0051
1,1-Dichloroethylene	**0.0109**	**0.0258**	**0.0044 J**	**0.0031 J**	**0.0174**	**0.0182**	**0.0064**	<0.0055	<0.0051
cis-1,2-Dichloroethylene	<0.0061	<0.0053	<0.0052	**0.0029 J**	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
Ethylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
2-Hexanone	<0.03	<0.026	<0.026	<0.023	<0.025	<0.028	<0.025	<0.028	<0.026
Hexachlorobutadiene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
Isopropylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
p-Isopropyltoluene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
Methylene chloride	<0.012	<0.011	<0.01	<0.0093	<0.01	<0.011	<0.01	<0.011	<0.01
Naphthalene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
n-Propylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
1,1,1-Trichloroethane	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
1,2,4-Trimethylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
1,3,5-Trimethylbenzene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
Tetrachloroethene	<0.0061	**0.0217**	<0.0052	**0.0949**	**0.0026 J**	<0.0056	**0.0227**	<0.0055	<0.0051
Toluene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	**0.0018 J**	<0.0055	<0.0051
Trichloroethylene	<0.0061	**0.0042 J**	<0.0052	**0.0096**	<0.005	<0.0056	**0.0054**	<0.0055	<0.0051
m,p-Xylene	<0.012	<0.011	<0.01	<0.0093	<0.01	<0.011	<0.01	<0.011	<0.01
o-Xylene	<0.0061	<0.0053	<0.0052	<0.0046	<0.005	<0.0056	<0.0051	<0.0055	<0.0051
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
Benzo(b)fluoranthene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
Chrysene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
bis(2-Ethylhexyl)phthalate	<0.47	<0.45	<0.43	<0.4	<0.43	<0.49	<0.41	<0.45	<0.46
Fluoranthene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
Fluorene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
Phenanthrene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
Pyrene	<0.23	<0.22	<0.22	<0.2	<0.22	<0.24	<0.21	<0.22	<0.23
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<8.3	<7.6	<7.1	<5.8	<7.2	<7.8	<6.5	<8.5	<7.5
Diesel Range Organics (C10-C22)	<12	<11	<11	<10	<11	<12	<10	<11	<12
Oil Range Organics (>C22-C36)	<12	<11	<11	<10	<11	<12	<10	<11	<12
Metals (mg/kg)									
Aluminum	**3,480**	**5,810**	**3,980**	**5,130**	**6,300**	**503**	**6,050**	**3,760**	**3,280**
Antimony	<10	**1.2 J**	<10	<11	<9.5	<11	<5.1	<12	<11
Arsenic	**1.7 J**	**1.9 J**	**1.9 J**	**2.2 J**	**4.4**	**2.1 J**	**3.2**	**2.7 J**	**3**
Barium	**28.6 J**	**51.2**	**47.4 J**	**27.8 J**	**62**	**13.1 J**	**28.1 J**	**36.9 J**	**40.9 J**
Beryllium	<1.3	**0.29 J**	<1.3	**0.3 J**	**0.26 J**	<1.4	<1.3	<1.5	<1.4
Cadmium	<2	<1.7	<2	<2.1	<1.9	<2.3	<1	<2.4	<2.3
Calcium	**157,000**	**193,000**	**189,000**	**148,000**	**139,000**	**233,000**	**116,000**	**175,000**	**198,000**
Chromium	**3 J**	**6.1**	**3.1 J**	**4.5 J**	**4.7 J**	<5.7	**6.5**	**3 J**	**2.8 J**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**1.1 J**	**1.7 J**	**1.2 J**	**1.6 J**	**4.5 J**	<14	**2 J**	**1 J**	**0.95 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP27-8**	**SS18-DP28-7**	**SS18-DP29-8**	**SS18-DP30-11**	**SS18-DP31-11**	**SS18-DP31-11-**	**SS18-DP32-12**	**SS18-DP33-8**	**SS18-DP33-8-A**
Sample Depth (ft bgs)	**8**	**7**	**8**	**11**	**11**	**11**	**12**	**8**	**8**
Date Sampled	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**
Copper	**1.5 J**	**2.8 J**	**3.7 J**	**2.8 J**	**4.2 J**	**2.6 J**	**2.4 J**	**2.1 J**	**2 J**
Iron	**2,920**	**4,910**	**2,850**	**4,510**	**5,480**	**322**	**5,150**	**2,840**	**2,430**
Lead	<10	**2.8 J**	**2.1 J**	**2.1 J**	**2.3 J**	<11	**2.8 J**	**1.5 J**	**1.8 J**
Magnesium	**2,890**	**4,820**	**3,610**	**6,730**	**3,840**	**4,590**	**5,120**	**4,400**	**3,940**
Manganese	**37.4**	**73.5**	**54.2**	**39.4**	**378**	**7.9**	**70.5**	**46.9**	**34.8**
Mercury	<0.11	<0.11	<0.11	<0.1	<0.1	<0.12	<0.096	<0.11	<0.11
Nickel	**2.5 J**	**5.3 J**	**3 J**	**4.4 J**	**8.3 J**	**0.8 J**	**5.1 J**	**2.7 J**	**2.1 J**
Potassium	**880 J**	**1,320 J**	**883 J**	**1,100 J**	**1,450 J**	**164 J**	**1,360 J**	**808 J**	**673 J**
Selenium	<10	<8.5	<10	<11	<9.5	<11	<5.1	<12	<11
Silver	<2.5	<2.1	<2.5	<2.7	<2.4	<2.8	<2.5	<3	<2.8
Sodium	**1,350 J**	**2,030 J**	<2,500	**883 J**	**1,330 J**	<2,800	**1,370 J**	<3,000	<2,800
Vanadium	**9.2 J**	**13.5**	**14.6**	**16.3**	**14.9**	**12.4 J**	**18.6**	**11.2 J**	**10.9 J**
Zinc	**7 J**	**13.4**	**20**	**10.8 J**	**12.9**	<11	**12.7**	**8.7 J**	**8.9 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP34-8**	**SS18-DP35-5**	**SS18-DP36-7**	**SS18-DP37-8**	**SS18-DP38-8**	**SS18-DP38-8-A**	**SS18-DP39-8**	**SS18-DP40-8**	**SS18-DP41-7**
Sample Depth (ft bgs)	**8**	**5**	**7**	**8**	**8**	**8**	**8**	**8**	**7**
Date Sampled	**8/16/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/16/2012**	**8/14/2012**	**8/14/2012**	**8/17/2012**
VOCs (mg/kg)									
Acetone	<0.047	<0.056	**0.0248 J**	<0.054	<0.053	<0.052	<0.051	<0.054	<0.047
Acetonitrile	<0.047	<0.056	<0.052	<0.054	<0.053	<0.052	<0.051	<0.054	<0.047
n-Butylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
sec-Butylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Carbon disulfide	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
1,1-Dichloroethane	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
1,1-Dichloroethylene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
cis-1,2-Dichloroethylene	<0.0047	**0.0024 J**	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Ethylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
2-Hexanone	<0.023	<0.028	<0.026	<0.027	<0.027	<0.026	<0.026	<0.027	<0.024
Hexachlorobutadiene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Isopropylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
p-Isopropyltoluene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Methylene chloride	<0.0094	<0.011	<0.01	<0.011	<0.011	<0.01	<0.01	<0.011	<0.0095
Naphthalene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
n-Propylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
1,1,1-Trichloroethane	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
1,2,4-Trimethylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
1,3,5-Trimethylbenzene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Tetrachloroethene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Toluene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
Trichloroethylene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
m,p-Xylene	<0.0094	<0.011	<0.01	<0.011	<0.011	<0.01	<0.01	<0.011	<0.0095
o-Xylene	<0.0047	<0.0056	<0.0052	<0.0054	<0.0053	<0.0052	<0.0051	<0.0054	<0.0047
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
Benzo(b)fluoranthene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
Chrysene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
bis(2-Ethylhexyl)phthalate	<0.45	<0.45	<0.44	<0.44	<0.44	<0.45	<0.43	<0.46	<0.43
Fluoranthene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
Fluorene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
Phenanthrene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
Pyrene	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.23	<0.21
TPHs (mg/kg)									
Gasoline Range Organics (C6-C10)	<7.3	<7.5	<7.2	<7.5	<7.2	<7.5	<7	<7.7	<6.8
Diesel Range Organics (C10-C22)	<11	**4.56 J**	<11	<11	<11	<11	<11	<11	<11
Oil Range Organics (>C22-C36)	**5.34 J**	**7.91 J**	<11	<11	<11	<11	**8.26 J**	<11	<11
Metals (mg/kg)									
Aluminum	**3,810**	**1,210**	**3,830**	**5,440**	**4,610**	**5,000**	**2,370**	**2,790**	**5,440**
Antimony	<11	<13	<10	<6.5	<11	<9.5	<12	<11	<8.8
Arsenic	**1.1 J**	**1.2 J**	**1.7 J**	**1.9 J**	**1.9 J**	**2.7**	**1.3 J**	**1.3 J**	**3.1**
Barium	**32.9 J**	**28.9 J**	**40.7 J**	**52.6 J**	**50.2 J**	**56.9**	**25 J**	**23.2 J**	**68.6**
Beryllium	<1.3	<1.6	<1.3	<1.6	<1.3	<1.2	<3.1	<2.8	<1.1
Cadmium	<2.1	<2.6	<2	<1.3	<2.1	<1.9	<2.5	<2.3	<1.8
Calcium	**193,000**	**215,000**	**139,000**	**162,000**	**155,000**	**179,000**	**151,000**	**171,000**	**127,000**
Chromium	**3.2 J**	**0.78 J**	**3.2 J**	**4.8**	**4.7 J**	**5.7**	**2.5 J**	**2.8 J**	**4.9**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**1.2 J**	**0.45 J**	**1.1 J**	**1.8 J**	**1.8 J**	**1.9 J**	**0.67 J**	**1.2 J**	**1.7 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP34-8**	**SS18-DP35-5**	**SS18-DP36-7**	**SS18-DP37-8**	**SS18-DP38-8**	**SS18-DP38-8-A**	**SS18-DP39-8**	**SS18-DP40-8**	**SS18-DP41-7**
Sample Depth (ft bgs)	**8**	**5**	**7**	**8**	**8**	**8**	**8**	**8**	**7**
Date Sampled	**8/16/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/16/2012**	**8/14/2012**	**8/14/2012**	**8/17/2012**
Copper	**2.3 J**	**2.3 J**	**2.2 J**	**2.6 J**	**2.9 J**	**3 J**	<15	**1.1 J**	**3.2 J**
Iron	**3,370**	**993**	**3,320**	**4,350**	**4,760**	**5,120**	**2,050**	**2,510**	**4,580**
Lead	**1.3 J**	**0.71 J**	**1.5 J**	**2 J**	**2.2 J**	**2.8 J**	<12	**0.86 J**	**1.2 J**
Magnesium	**2,180**	**913 J**	**3,180**	**4,660**	**4,440**	**4,860**	**1,760 J**	**1,560 J**	**1,780**
Manganese	**40.7**	**11.5**	**40.5**	**69.3**	**65.6**	**71.2**	**26.2**	**72.2**	**71.7**
Mercury	<0.11	<0.1	<0.11	<0.1	<0.099	<0.11	<0.098	<0.11	<0.099
Nickel	**3.2 J**	**1.2 J**	**2.7 J**	**4.5 J**	**4.9 J**	**5.1 J**	**1.6 J**	**2.1 J**	**3.9 J**
Potassium	**902 J**	**314 J**	**832 J**	**1,250 J**	**1,090 J**	**1,140 J**	**642 J**	**684 J**	**1,400 J**
Selenium	<11	<13	<10	<6.5	<11	<9.5	<12	<11	<8.8
Silver	<2.7	<3.3	<2.5	<3.3	<2.7	<2.4	<6.2	<5.6	<2.2
Sodium	**333 J**	<3,300	**342 J**	<3,300	**307 J**	**324 J**	<6,200	<5,600	<2,200
Vanadium	**15.2**	**4.4 J**	**12.8 J**	**15.8 J**	**13.5**	**14.7**	**5.3 J**	**5.8 J**	**12**
Zinc	**8.5 J**	**4 J**	**9 J**	**12.1**	**12.1**	**13.5**	**6.8 J**	**7.1 J**	**12.6**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP42-5**	**SS18-DP43-5**	**SS18-DP44-7**	**SS18-DP46-8**
Sample Depth (ft bgs)	**5**	**5**	**7**	**8**
Date Sampled	**8/16/2012**	**8/16/2012**	**8/16/2012**	**8/17/2012**
VOCs (mg/kg)				
Acetone	<0.052	<0.05	<0.059	<0.049
Acetonitrile	<0.052	<0.05	<0.059	<0.049
n-Butylbenzene	<0.0052	<0.005	<0.0059	<0.0049
sec-Butylbenzene	<0.0052	<0.005	<0.0059	<0.0049
Carbon disulfide	<0.0052	<0.005	<0.0059	<0.0049
1,1-Dichloroethane	<0.0052	<0.005	<0.0059	<0.0049
1,1-Dichloroethylene	<0.0052	<0.005	<0.0059	<0.0049
cis-1,2-Dichloroethylene	<0.0052	<0.005	<0.0059	<0.0049
Ethylbenzene	<0.0052	<0.005	<0.0059	<0.0049
2-Hexanone	<0.026	<0.025	<0.03	<0.024
Hexachlorobutadiene	<0.0052	<0.005	<0.0059	<0.0049
Isopropylbenzene	<0.0052	<0.005	<0.0059	<0.0049
p-Isopropyltoluene	<0.0052	<0.005	<0.0059	<0.0049
Methylene chloride	<0.01	<0.01	<0.012	<0.0097
Naphthalene	<0.0052	<0.005	<0.0059	<0.0049
n-Propylbenzene	<0.0052	<0.005	<0.0059	<0.0049
1,1,1-Trichloroethane	<0.0052	<0.005	<0.0059	<0.0049
1,2,4-Trimethylbenzene	<0.0052	<0.005	<0.0059	<0.0049
1,3,5-Trimethylbenzene	<0.0052	<0.005	<0.0059	<0.0049
Tetrachloroethene	<0.0052	<0.005	<0.0059	<0.0049
Toluene	<0.0052	<0.005	<0.0059	<0.0049
Trichloroethylene	<0.0052	<0.005	<0.0059	<0.0049
m,p-Xylene	<0.01	<0.01	<0.012	<0.0097
o-Xylene	<0.0052	<0.005	<0.0059	<0.0049
SVOCs (mg/kg)				
Benzo(a)anthracene	<0.24	<0.23	<0.24	<0.22
Benzo(b)fluoranthene	<0.24	<0.23	<0.24	<0.22
Chrysene	<0.24	<0.23	<0.24	<0.22
bis(2-Ethylhexyl)phthalate	<0.49	<0.45	<0.48	<0.45
Fluoranthene	<0.24	<0.23	<0.24	<0.22
Fluorene	<0.24	<0.23	<0.24	<0.22
Phenanthrene	<0.24	<0.23	<0.24	<0.22
Pyrene	<0.24	<0.23	<0.24	<0.22
TPHs (mg/kg)				
Gasoline Range Organics (C6-C10)	<6.7	<8.1	<7.8	<6.9
Diesel Range Organics (C10-C22)	<12	<11	<12	<11
Oil Range Organics (>C22-C36)	<12	<11	<12	<11
Metals (mg/kg)				
Aluminum	**5,020**	**1,350**	**3,490**	**4,660**
Antimony	<14	<18	<13	<12
Arsenic	**2.5 J**	**1.8 J**	**1.5 J**	**0.78 J**
Barium	**48.3 J**	**34 J**	**36 J**	**45.6 J**
Beryllium	<1.7	<1.1	<1.6	<1.5
Cadmium	<2.8	<3.6	<2.5	<2.3
Calcium	**176,000**	**248,000**	**180,000**	**150,000**
Chromium	**4.1 J**	**1 J**	**3 J**	**4.2 J**
Chromium (VI)	NA	NA	NA	NA
Cobalt	**1.9 J**	**0.73 J**	**1.2 J**	**1.2 J**

Table 8-1(a)
Comprehensive Soil Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP42-5**	**SS18-DP43-5**	**SS18-DP44-7**	**SS18-DP46-8**
Sample Depth (ft bgs)	**5**	**5**	**7**	**8**
Date Sampled	**8/16/2012**	**8/16/2012**	**8/16/2012**	**8/17/2012**
Copper	**3.2 J**	**2.5 J**	**2.2 J**	**1.7 J**
Iron	**4,550**	**1,130**	**3,150**	**3,690**
Lead	**2.4 J**	<18	**1.1 J**	<12
Magnesium	**4,490**	**761 J**	**2,500**	**3,370**
Manganese	**60.2**	**15.9**	**78.1**	**40.5**
Mercury	<0.12	<0.11	<0.11	<0.1
Nickel	**4.5 J**	**1.3 J**	**3.3 J**	**2.8 J**
Potassium	**1,320 J**	**399 J**	**811 J**	**1,130 J**
Selenium	<14	<18	<13	<12
Silver	<3.5	<2.2	<3.2	<2.9
Sodium	<3,500	<2,200	<3,200	**1,560 J**
Vanadium	**16.5 J**	**4.8 J**	**11.3 J**	**8.2 J**
Zinc	**11.5 J**	<18	**8.2 J**	**9.6 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP01-4 (Average)**	**SS18-DP02-3**	**SS18-DP03-3**	**SS18-DP04-5**	**SS18-DP05-5**	**SS18-DP06-5**	**SS18-DP07-3**	**SS18-DP07-8**	**SS18-DP08-3**
Sample Depth (ft bgs)	**4**	**3**	**3**	**5**	**5**	**5**	**3**	**8**	**3**
Date Sampled	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/5/2007**	**6/6/2007**	**6/6/2007**	**8/20/2009**	**8/20/2009**	**8/20/2009**
VOCs (mg/kg)									
Acetone	<0.0245	<0.026	<0.021	<0.026	<0.022	<0.025	<0.061	<0.051	<0.054
Acetonitrile	NA	NA	NA	NA	NA	NA	<0.061	<0.051	<0.054
n-Butylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
sec-Butylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Carbon disulfide	NA	NA	NA	NA	NA	NA	<0.0061	<0.0051	<0.0054
1,1-Dichloroethane	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	**0.00039 J**	<0.0061	<0.0051	<0.0054
1,1-Dichloroethylene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
cis-1,2-Dichloroethylene	<0.00305	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.0061	<0.0051	<0.0054
Ethylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
2-Hexanone	<0.0245	<0.026	<0.021	<0.026	<0.022	<0.025	<0.031	<0.025	<0.027
Hexachlorobutadiene	**0.00206**	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Isopropylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
p-Isopropyltoluene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Methylene chloride	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.012	**0.0071 J**	<0.011
Naphthalene	**0.0012**	<0.0064	<0.0053	<0.0065	<0.0055	**0.0012 J**	<0.0061	<0.0051	<0.0054
n-Propylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
1,1,1-Trichloroethane	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
1,2,4-Trimethylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
1,3,5-Trimethylbenzene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Tetrachloroethene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Toluene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
Trichloroethylene	<0.0061	<0.0064	<0.0053	<0.0065	<0.0055	<0.0062	<0.0061	<0.0051	<0.0054
m,p-Xylene	<0.00305	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.012	<0.01	<0.011
o-Xylene	<0.00305	<0.0032	<0.0026	<0.0033	<0.0027	<0.0031	<0.0061	<0.0051	<0.0054
SVOCs (mg/kg)									
Benzo(a)anthracene	**0.2625**	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
Benzo(b)fluoranthene	<0.915	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
Chrysene	**0.264**	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
bis(2-Ethylhexyl)phthalate	<0.915	<0.89	<0.81	**0.074 J**	<0.8	<0.85	<0.39	<0.38	<0.39
Fluoranthene	<0.915	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
Fluorene	<0.915	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
Phenanthrene	<0.915	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
Pyrene	<0.915	<0.89	<0.81	<0.89	<0.8	<0.85	<0.19	<0.19	<0.2
TPHs (mg/kg)									
TPH (C10-C36)	**5.175**	**5**	**51.5**	**18.4**	**4.4**	**4.75**	<19	<19	<19.8
Metals (mg/kg)									
Aluminum	**2,500**	**3,900**	**6,800**	**2,500 J**	**6,200 J**	**3,300 J**	**458**	**3,540**	**1,320**
Antimony	<2.1	<2	<1.8	<2	<1.8	<1.9	<34	<33	<35
Arsenic	**1.6**	**1.5 B**	**2.0 B**	**1.3 B**	**1.7 B**	**2.4 B**	<4.5	<4.4	<4.6
Barium	**18**	**87**	**67**	**35**	**27**	**54**	**15.1**	**33.4**	**15**
Beryllium	<0.69	<0.67	**0.25 B**	<0.67	**0.20 B**	<0.64	**0.12 J**	**0.29**	**0.17 J**
Cadmium	<0.69	<0.67	**0.2 B**	**0.13 B**	**0.063 B**	**0.053 B**	<1.1	<1.1	<1.2
Calcium	**180,000**	**180,000 J**	**140,000 J**	**210,000 J**	**180,000 J**	**200,000 J**	**153,000**	**147,000**	**204,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP01-4 (Average)**	**SS18-DP02-3**	**SS18-DP03-3**	**SS18-DP04-5**	**SS18-DP05-5**	**SS18-DP06-5**	**SS18-DP07-3**	**SS18-DP07-8**	**SS18-DP08-3**
Sample Depth (ft bgs)	**4**	**3**	**3**	**5**	**5**	**5**	**3**	**8**	**3**
Date Sampled	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/5/2007**	**6/6/2007**	**6/6/2007**	**8/20/2009**	**8/20/2009**	**8/20/2009**
Chromium	**2.75**	**3.7**	**8**	**4.4**	**6.2**	**3**	<1.1	**2.8**	**0.67**
Chromium (VI)	**0.0375**	<0.13	**0.027 JB**	**0.031 JB**	<0.12	**0.04 JB**	NA	NA	NA
Cobalt	**1.045**	**1.2 B**	**2.4**	**1.2 B**	**1.6**	**1.0 B**	**0.68 J**	**1.1 J**	**0.69 J**
Copper	**1.295**	**3**	**5.6**	**3.2**	**2.1 B**	**2.4 B**	**1.6**	**1.4**	**2**
Iron	**2,200**	**3,000**	**6,300**	**2,200 J**	**4,400 J**	**2,400 J**	**258**	**2,540**	**862**
Lead	**3.25**	**3.7**	**9.9**	**12**	**3.5**	**2.5**	<57	<55	<58
Magnesium	**1,800**	**3,600**	**12,000**	**4,200 J**	**4,300 J**	**1,800 J**	**1,890**	**3,500**	**2,250**
Manganese	**26.5**	**37**	**130**	**44**	**63**	**46**	**5.8**	**37.3**	**13.3**
Mercury	<0.046	<0.044	<0.04	<0.044	<0.04	<0.042	<0.094	<0.085	<0.099
Nickel	**2.45**	**2.8 B**	**6.4**	**4.5 B**	**4.8**	**2.7 B**	<11	**2.7 J**	**1.3 J**
Potassium	**770**	**1,100**	**2,100**	**690**	**1,600**	**840**	**243 J**	**1,150**	**548 J**
Selenium	<1.8	<1.8	<1.6	<1.7	<1.6	<1.7	**3.5 J**	**4.6 J**	**4.7 J**
Silver	<1.35	<1.3	<1.2	<1.3	<1.2	<1.3	<0.57	<0.55	<0.58
Sodium	**225**	**380 JB**	**540 JB**	**740**	**290 B**	**710**	**304 J**	**389 J**	**235 J**
Vanadium	**13**	**10**	**16**	**8.2**	**12**	**8.8**	**4.8**	**9.1**	**3.4**
Zinc	**6.3**	**9 J**	**24 J**	**12**	**11**	**8.1**	**1.2**	**7.7**	**2.9**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP08-8**	**SS18-DP09-3**	**SS18-DP09-8**	**SS18-DP10-3**	**SS18-DP10-7**	**SS18-DP11-4**	**SS18-DP11-7**	**SS18-DP12-3**	**SS18-DP12-8 (Average)**
Sample Depth (ft bgs)	**8**	**3**	**8**	**3**	**7**	**4**	**7**	**3**	**8**
Date Sampled	**8/20/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/18/2009**	**8/18/2009**
VOCs (mg/kg)									
Acetone	<0.055	<0.049	<0.057	<0.056	<0.052	<0.047	<0.051	<0.057	<0.0515
Acetonitrile	<0.055	<0.049	<0.057	<0.056	<0.052	<0.047	<0.051	**0.0233 J**	<0.0515
n-Butylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0443**	<0.0047	<0.0051	<0.0057	<0.00515
sec-Butylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0289**	<0.0047	<0.0051	<0.0057	<0.00515
Carbon disulfide	<0.0055	<0.0049	<0.0057	<0.0056	**0.0042 J**	<0.0047	<0.0051	<0.0057	<0.00515
1,1-Dichloroethane	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
1,1-Dichloroethylene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
cis-1,2-Dichloroethylene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
Ethylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0397**	<0.0047	<0.0051	<0.0057	<0.00515
2-Hexanone	<0.028	<0.024	<0.028	<0.028	<0.026	<0.024	<0.025	<0.029	<0.026
Hexachlorobutadiene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0056	<0.0047	<0.0051	<0.0057	<0.00515
Isopropylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0184**	<0.0047	<0.0051	<0.0057	<0.00515
p-Isopropyltoluene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0304**	<0.0047	<0.0051	<0.0057	<0.00515
Methylene chloride	<0.011	**0.0062 J**	<0.011	<0.011	**0.0078 J**	**0.0119**	**0.0098 J**	**0.0133 B**	**0.0059**
Naphthalene	<0.0055	<0.006	<0.0057	<0.0058	**0.119**	<0.0047	<0.0051	<0.0057	<0.00515
n-Propylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0469**	<0.0047	<0.0051	<0.0057	<0.00515
1,1,1-Trichloroethane	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
1,2,4-Trimethylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.102**	<0.0047	<0.0051	<0.0057	<0.00515
1,3,5-Trimethylbenzene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0192**	<0.0047	<0.0051	<0.0057	<0.00515
Tetrachloroethene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
Toluene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
Trichloroethylene	<0.0055	<0.0049	<0.0057	<0.0056	<0.0052	<0.0047	<0.0051	<0.0057	<0.00515
m,p-Xylene	<0.011	<0.0097	<0.011	<0.011	**0.0155**	<0.0094	<0.01	<0.011	<0.01
o-Xylene	<0.0055	<0.0049	<0.0057	<0.0056	**0.0018 J**	<0.0047	<0.0051	<0.0057	<0.00515
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	<0.2	<0.19	<0.19
Benzo(b)fluoranthene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0576 J**	<0.19	<0.19
Chrysene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0401 J**	<0.19	<0.19
bis(2-Ethylhexyl)phthalate	<0.41	<0.38	<0.4	<0.4	<0.4	<0.36	**0.716**	<0.39	<0.375
Fluoranthene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0519 J**	<0.19	<0.19
Fluorene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0504 J**	<0.19	<0.19
Phenanthrene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.123 J**	<0.19	<0.19
Pyrene	<0.2	<0.19	<0.2	<0.2	<0.2	<0.18	**0.0478 J**	<0.19	<0.19
TPHs (mg/kg)									
TPH (C10-C36)	<20	<18.8	<19.8	**11.98**	<19.8	<17.8	**33.9**	<19.2	<18.6
Metals (mg/kg)									
Aluminum	**2,370**	**7,190**	**3,540**	**2,190**	**3,590**	**5,180**	**3,490**	**9,900**	**3,720**
Antimony	<36	<17	<35	<35	<34	<32	<35	<17	<33
Arsenic	<4.9	**1.7 J**	<4.7	**2.5 J**	<4.6	<4.3	<4.7	**3.3**	<4.4
Barium	**62.2**	**92.3**	**35.6**	**34.4**	**36.1**	**80.6**	**34**	**124**	**34.9**
Beryllium	**0.27 J**	**0.43**	**0.29**	**0.18 J**	**0.27 J**	**0.44**	**0.24 J**	**0.96 J**	<2.75
Cadmium	<1.2	<1.1	<1.2	<1.2	<1.1	**0.36**	**0.51 J**	<1.1	<2.15
Calcium	**172,000**	**112,000**	**155,000**	**191,000**	**155,000**	**181,000**	**148,000**	**93,500**	**159,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP08-8**	**SS18-DP09-3**	**SS18-DP09-8**	**SS18-DP10-3**	**SS18-DP10-7**	**SS18-DP11-4**	**SS18-DP11-7**	**SS18-DP12-3**	**SS18-DP12-8 (Average)**
Sample Depth (ft bgs)	**8**	**3**	**8**	**3**	**7**	**4**	**7**	**3**	**8**
Date Sampled	**8/20/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/19/2009**	**8/18/2009**	**8/18/2009**
Chromium	**1.8**	**4.9**	**2.8**	**1.3**	**3.6**	**5.2**	**5.6**	**8.5**	**2.05**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**0.81 J**	**2 J**	**1.1 J**	**0.99 J**	**1.2 J**	**2.3 J**	**1.2 J**	**3.5 J**	**1.05**
Copper	**2.5**	**4**	**1.2 J**	**1.5**	**2.2**	**5.6**	**4.4**	**6.4 J**	**3.5**
Iron	**1,720**	**4,870**	**2,780**	**1,510**	**2,690**	**4,740**	**2,920**	**8,130**	**3,050**
Lead	<61	**2.7 J**	<58	<59	**5.6 J**	**3.8 J**	**10.8 J**	**4.5 J**	<54.5
Magnesium	**3,470**	**6,020**	**1,830**	**1,200 J**	**2,410**	**7,200**	**3,130**	**3,980**	**3,760**
Manganese	**19.6**	**84.8**	**35.8**	**23.7**	**67.2**	**195**	**49.7**	**134**	**39.25**
Mercury	<0.1	<0.096	<0.094	<0.088	<0.087	<0.08	**0.017 J**	<0.088	<0.088
Nickel	**2 J**	**4.6 J**	**2.5 J**	**1.9 J**	**2.9 J**	**5.3**	**3.4 J**	**7.4 J**	**8.5**
Potassium	**886**	**2,120**	**1,140**	**804**	**1,200**	**1,410**	**1,180**	**2,460 J**	**1,275**
Selenium	**5.1 J**	**2.8 J**	**6 J**	**5.6 J**	**3.9 J**	**4 J**	**5.1 J**	**2.2 J**	**4.1**
Silver	<0.61	<0.56	<0.58	<0.59	<0.57	<53	**0.6**	<2.8	<5.45
Sodium	**336 J**	**330 J**	**271 J**	**236 J**	**232 J**	**298 J**	**215 J**	<2,800	<5,450
Vanadium	**6.9**	**11**	**7.8**	**7.9**	**8.2**	**10.2**	**9.6**	**16.3**	**9.95**
Zinc	**4.4**	**15.5**	**7.8**	**5.2**	**15.6**	**31.1**	**31.4**	**23**	**8.45**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP13-4**	**SS18-DP13-8**	**SS18-DP14-3**	**SS18-DP14-7 (Average)**	**SS18-DP16-4**	**SS18-DP16-8**	**SS18-DP17-4**	**SS18-DP17-6 (Average)**	**SS18-DP18-2**
Sample Depth (ft bgs)	**4**	**8**	**3**	**7**	**7**	**8**	**4**	**6**	**2**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**
VOCs (mg/kg)									
Acetone	<0.057	<0.051	<0.051	<0.054	<0.056	<0.053	<0.06	<0.055	<0.056
Acetonitrile	<0.057	<0.051	<0.051	<0.054	<0.056	<0.053	<0.06	<0.055	<0.056
n-Butylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
sec-Butylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.00375**	<0.0056
Carbon disulfide	<0.0057	<0.0051	<0.0051	**0.002025**	<0.0056	<0.0053	<0.006	**0.0131**	<0.0056
1,1-Dichloroethane	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	**0.0086**	**0.1065**	<0.0056
1,1-Dichloroethylene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.0045**	<0.0056
cis-1,2-Dichloroethylene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
Ethylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.0213**	<0.0056
2-Hexanone	<0.029	<0.025	<0.026	<0.0054	<0.028	<0.027	<0.03	<0.0275	<0.028
Hexachlorobutadiene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
Isopropylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.00375**	<0.0056
p-Isopropyltoluene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
Methylene chloride	**0.0146 B**	**0.0196 B**	<0.01	<0.011	<0.011	**0.0073 JB**	<0.012	**0.00695**	**0.0076 JB**
Naphthalene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.0147**	<0.0056
n-Propylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.00415**	<0.0056
1,1,1-Trichloroethane	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	**0.0052 J**	**0.01735**	<0.0056
1,2,4-Trimethylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
1,3,5-Trimethylbenzene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
Tetrachloroethene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
Toluene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.0038**	<0.0056
Trichloroethylene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	<0.0055	<0.0056
m,p-Xylene	<0.011	<0.01	<0.01	<0.011	<0.011	<0.011	<0.012	<0.011	<0.011
o-Xylene	<0.0057	<0.0051	<0.0051	<0.0054	<0.0056	<0.0053	<0.006	**0.00375**	<0.0056
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
Benzo(b)fluoranthene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
Chrysene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
bis(2-Ethylhexyl)phthalate	<0.39	<0.38	<0.38	<0.39	<0.4	<0.38	<0.43	<0.415	<0.39
Fluoranthene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
Fluorene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
Phenanthrene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
Pyrene	<0.19	<0.19	<0.19	<0.195	<0.2	<0.19	<0.21	<0.205	<0.19
TPHs (mg/kg)									
TPH (C10-C36)	<20	<18.6	<18.6	<19.5	<20	<18.8	<22	**115.3**	**25.6**
Metals (mg/kg)									
Aluminum	**5,100**	**4,590**	**5,460**	**2,490**	**3,080**	**3,290**	**731**	**3,295**	**585**
Antimony	**3 J**	<33	<16	<17.5	<35	<32	<38	<18	<33
Arsenic	<4.6	<4.3	**1.7 J**	<2.3	<4.7	<4.3	<5.1	<2.35	<4.4
Barium	**225**	**36.1**	**147**	**21.2**	**75.6 J**	**23.1 J**	**18 J**	**31.1**	**16.8 J**
Beryllium	**0.27 J**	**0.29**	**0.38**	**0.245**	<2.9	<2.7	<3.2	<1.5	<2.8
Cadmium	<0.23	<0.22	<0.22	<0.23	<2.3	<2.1	<2.5	<1.2	<2.2
Calcium	**159,000**	**152,000**	**97,200**	**135,500**	**164,000**	**163,000**	**223,000**	**131,500**	**214,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP13-4**	**SS18-DP13-8**	**SS18-DP14-3**	**SS18-DP14-7 (Average)**	**SS18-DP16-4**	**SS18-DP16-8**	**SS18-DP17-4**	**SS18-DP17-6 (Average)**	**SS18-DP18-2**
Sample Depth (ft bgs)	**4**	**8**	**3**	**7**	**7**	**8**	**4**	**6**	**2**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/17/2009**
Chromium	**3.4**	**3.9**	**4**	**2.45**	**2.6 J**	**2.7 J**	<6.3	**3.75**	<5.5
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**1.3 J**	**1.2 J**	**1.6 J**	**0.815**	**1.1 J**	**1.3 J**	<32	**1.5**	<28
Copper	**2.7**	**1.2 J**	**2.9**	**0.995**	<15	<13	<16	**1.6**	<14
Iron	**3,100**	**3,110**	**3,710**	**2,185**	**2,530**	**2,890**	**625**	**3,695**	**484**
Lead	<58	<54	**1.8 J**	<28.5	<58	<54	<63	**7.9**	**3.5 J**
Magnesium	**1,420**	**2,730**	**1,340**	**1,240**	**1,250 J**	**2,010 J**	**683 J**	**1,870**	**1,440 J**
Manganese	**37.7**	**40.8**	**51.7**	**18.15**	**41.3**	**51.9**	**11.4**	**51.35**	**5.4 J**
Mercury	<0.094	<0.094	<0.095	<0.0905	<0.099	**0.015 J**	<0.099	<0.097	<0.088
Nickel	**3.1**	**3.2**	**3.7**	**1.65**	**2.2 J**	**2.8 J**	<25	**2.75**	<22
Potassium	**1,430**	**1,540**	**1,420**	**837**	**1,020 J**	**1,140 J**	**641 J**	**1,050**	**543 J**
Selenium	**3.2 J**	**3.7 J**	**1.7 J**	**2.5**	**4.5 J**	**3.3 J**	**5.3 J**	**2.7**	**4.4 J**
Silver	<0.58	<0.54	<0.55	<0.58	<5.8	<5.4	<6.3	<2.95	<5.5
Sodium	**179 J**	**319 J**	**72.9 J**	**316**	<5,800	<5,400	<6,300	<2,950	<5,500
Vanadium	**9.8**	**9.8**	**10**	**9.25**	**6.3 J**	**8.5 J**	**2 J**	**8.35**	**3.5 J**
Zinc	**10.6**	**8.7**	**11.6**	**5.6**	**7.4 J**	**7.7 J**	<13	**9**	<11

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP18-8**	**SS18-DP19-2**	**SS18-DP19-8**	**SS18-DP20-3**	**SS18-DP20-7**	**SS18-DP21-3**	**SS18-DP21-8**	**SS18-DP22-3**	**SS18-DP22-8**
Sample Depth (ft bgs)	**8**	**2**	**8**	**3**	**7**	**3**	**8**	**3**	**8**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**
VOCs (mg/kg)									
Acetone	<0.05	<0.059	<0.054	<0.053	**0.102**	<0.065	<0.063	<0.055	<0.052
Acetonitrile	<0.05	<0.059	<0.054	<0.053	**0.106**	<0.065	<0.063	<0.055	<0.052
n-Butylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
sec-Butylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Carbon disulfide	<0.005	<0.0059	<0.0054	<0.0053	**0.032**	<0.0065	<0.0063	<0.0055	<0.0052
1,1-Dichloroethane	<0.005	<0.0059	<0.0054	<0.0053	**0.0585**	<0.0065	<0.0063	<0.0055	<0.0052
1,1-Dichloroethylene	<0.005	<0.0059	<0.0054	<0.0053	**0.0021 J**	<0.0065	<0.0063	<0.0055	<0.0052
cis-1,2-Dichloroethylene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Ethylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
2-Hexanone	**0.0062 JB**	<0.029	<0.027	<0.026	<0.03	<0.032	<0.032	<0.027	<0.026
Hexachlorobutadiene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Isopropylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
p-Isopropyltoluene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Methylene chloride	**0.0055 JB**	<0.012	<0.011	<0.011	<0.012	<0.013	<0.013	<0.011	<0.01
Naphthalene	<0.0047	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
n-Propylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
1,1,1-Trichloroethane	<0.005	<0.0059	<0.0054	**0.0028 J**	**0.0333**	<0.0065	<0.0063	<0.0055	<0.0052
1,2,4-Trimethylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
1,3,5-Trimethylbenzene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Tetrachloroethene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Toluene	<0.005	**0.0034 J**	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
Trichloroethylene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
m,p-Xylene	<0.0099	<0.012	<0.011	<0.011	<0.012	<0.013	<0.013	<0.011	<0.01
o-Xylene	<0.005	<0.0059	<0.0054	<0.0053	<0.006	<0.0065	<0.0063	<0.0055	<0.0052
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
Benzo(b)fluoranthene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
Chrysene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
bis(2-Ethylhexyl)phthalate	<0.4	<0.38	<0.38	<0.39	<0.43	<0.42	<0.45	<0.39	<0.38
Fluoranthene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
Fluorene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
Phenanthrene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
Pyrene	<0.2	<0.19	<0.19	<0.19	<0.22	<0.21	<0.22	<0.19	<0.19
TPHs (mg/kg)									
TPH (C10-C36)	<19.8	<19.4	<19	<19.2	<22	<20	<22	<19.4	<19
Metals (mg/kg)									
Aluminum	**2,820**	**3,060**	**3,570**	**4,610**	**3,160**	**1,140**	**3,130**	**9,480**	**4,090**
Antimony	<36	<34	<33	<33	<19	<37	<19	<17	<34
Arsenic	<4.8	<4.6	**2.4 J**	<4.4	<2.6	<4.9	<2.5	**3.6**	<4.6
Barium	**29.8 J**	**42.7 J**	**26.8 J**	**44.3**	**30.9**	**8.9 J**	**29.7 J**	**158**	**30.2 J**
Beryllium	<3	<2.9	<2.7	**0.27 J**	**0.28 J**	<3	<1.6	**0.65 J**	<2.8
Cadmium	<2.4	<2.3	<2.2	**0.061 J**	<0.26	<2.4	<1.3	<1.1	<2.3
Calcium	**150,000**	**175,000**	**152,000**	**157,000**	**137,000**	**220,000**	**123,000**	**113,000**	**154,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP18-8**	**SS18-DP19-2**	**SS18-DP19-8**	**SS18-DP20-3**	**SS18-DP20-7**	**SS18-DP21-3**	**SS18-DP21-8**	**SS18-DP22-3**	**SS18-DP22-8**
Sample Depth (ft bgs)	**8**	**2**	**8**	**3**	**7**	**3**	**8**	**3**	**8**
Date Sampled	**8/17/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**	**8/17/2009**	**8/17/2009**	**8/18/2009**	**8/18/2009**
Chromium	**2.7 J**	**2.6 J**	**3.7 J**	**3.2**	**2.9**	<6.1	**3 J**	**5.5**	<5.7
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**0.73 J**	**1.4 J**	**1.9 J**	**1.3 J**	**0.93 J**	**0.84 J**	**1.2 J**	**2.7 J**	**1.4 J**
Copper	**1.3 J**	**1.8 J**	**1.4 J**	**2.7**	**1.5 J**	**2 J**	**0.86 J**	**6.5 J**	**3.3 J**
Iron	**2,330**	**2,520**	**3,250**	**2,840**	**2,290**	**911**	**2,790**	**6,900**	**3,380**
Lead	<60	<57	<54	<55	<32	<61	<32	**3.8 J**	<57
Magnesium	**2,650 J**	**2,320 J**	**2,210 J**	**4,100**	**1,670**	**1,270 J**	**1,780**	**3,950**	**4,540**
Manganese	**35.6**	**39.7**	**42.4**	**52.9**	**48.6**	**10.4**	**37.1**	**107**	**59.6**
Mercury	<0.098	<0.094	<0.095	<0.096	<0.11	<0.092	<0.098	<0.094	**0.021 J**
Nickel	**2 J**	**2.4 J**	**3.3 J**	**3**	**2.1 J**	<24	**2.4 J**	**6.4 J**	**2.8 J**
Potassium	**1,050 J**	**1,190 J**	**1,240 J**	**1,610**	**1,040**	**593 J**	**975 J**	**2,570 J**	**1,390 J**
Selenium	**2.7 J**	**5.8 J**	**3.1 J**	**3.7 J**	**3.1 J**	**4.5 J**	**2.7 J**	**2.4 J**	**3.1 J**
Silver	<6	<5.7	<5.4	<0.55	<0.65	<6.1	<3.2	<2.8	<5.7
Sodium	<6,000	<5,700	<5,400	**237 J**	**247 J**	<6,100	<3,200	<2,800	<5,700
Vanadium	**7.2 J**	**6.7 J**	**9.3 J**	**18.6**	**6.7**	**2.1 J**	**6.6 J**	**15.9**	**14.3 J**
Zinc	**6.4 J**	**7.3 J**	**8.2 J**	**9.5**	**7.3**	**4 J**	**7.5**	**21.6**	**10.6 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP23-3**	**SS18-DP23-8**	**SS18-DP24-10**	**SS18-DP25-8**	**SS18-DP26-8**	**SS18-DP27-8**	**SS18-DP28-7**	**SS18-DP29-8**	**SS18-DP30-11**
Sample Depth (ft bgs)	**3**	**8**	**10**	**8**	**8**	**8**	**7**	**8**	**11**
Date Sampled	**8/19/2009**	**8/19/2009**	**8/14/2012**	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/15/2012**
VOCs (mg/kg)									
Acetone	<0.05	<0.047	<0.049	<0.056	<0.049	<0.061	<0.053	<0.052	<0.046
Acetonitrile	<0.05	<0.047	<0.049	<0.056	<0.049	<0.061	<0.053	<0.052	<0.046
n-Butylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
sec-Butylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
Carbon disulfide	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
1,1-Dichloroethane	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	**0.0028 J**	**0.0063**	**0.0055**	**0.0077**
1,1-Dichloroethylene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	**0.0109**	**0.0258**	**0.0044 J**	**0.0031 J**
cis-1,2-Dichloroethylene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	**0.0029 J**
Ethylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
2-Hexanone	<0.025	<0.024	<0.025	<0.028	<0.024	<0.03	<0.026	<0.026	<0.023
Hexachlorobutadiene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
Isopropylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
p-Isopropyltoluene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
Methylene chloride	**0.0068 J**	<0.0094	<0.0098	<0.011	<0.0097	<0.012	<0.011	<0.01	<0.0093
Naphthalene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
n-Propylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
1,1,1-Trichloroethane	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
1,2,4-Trimethylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
1,3,5-Trimethylbenzene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
Tetrachloroethene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	**0.0217**	<0.0052	**0.0949**
Toluene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
Trichloroethylene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	**0.0042 J**	<0.0052	**0.0096**
m,p-Xylene	<0.01	<0.0094	<0.0098	<0.011	<0.0097	<0.012	<0.011	<0.01	<0.0093
o-Xylene	<0.005	<0.0047	<0.0049	<0.0056	<0.0049	<0.0061	<0.0053	<0.0052	<0.0046
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
Benzo(b)fluoranthene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
Chrysene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
bis(2-Ethylhexyl)phthalate	<0.38	<0.4	<0.43	<0.42	<1.6	<0.47	<0.45	<0.43	<0.4
Fluoranthene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
Fluorene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
Phenanthrene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
Pyrene	<0.19	<0.2	<0.22	<0.21	<0.82	<0.23	<0.22	<0.22	<0.2
TPHs (mg/kg)									
TPH (C10-C36)	<19	<19.4	<22	<20	**76.5**	<24	<22	<22	<20
Metals (mg/kg)									
Aluminum	**8,500**	**5,690**	**3,240**	**5,820**	**3,200**	**3,480**	**5,810**	**3,980**	**5,130**
Antimony	<13	<34	**1.4 J**	<12	<11	<10	**1.2 J**	<10	<11
Arsenic	**3.2**	<4.6	**2.9 J**	**1.9 J**	**1.6 J**	**1.7 J**	**1.9 J**	**1.9 J**	**2.2 J**
Barium	**158**	**18.2**	**34.6 J**	**56.4 J**	**53.4**	**28.6 J**	**51.2**	**47.4 J**	**27.8 J**
Beryllium	**0.46**	**0.37**	<2.4	<1.5	<1.3	<1.3	**0.29 J**	<1.3	**0.3 J**
Cadmium	<0.22	<0.23	<1.9	<2.4	<2.1	<2	<1.7	<2	<2.1
Calcium	**79,300**	**150,000**	**193,000**	**171,000**	**217,000**	**157,000**	**193,000**	**189,000**	**148,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP23-3**	**SS18-DP23-8**	**SS18-DP24-10**	**SS18-DP25-8**	**SS18-DP26-8**	**SS18-DP27-8**	**SS18-DP28-7**	**SS18-DP29-8**	**SS18-DP30-11**
Sample Depth (ft bgs)	**3**	**8**	**10**	**8**	**8**	**8**	**7**	**8**	**11**
Date Sampled	**8/19/2009**	**8/19/2009**	**8/14/2012**	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/14/2012**	**8/15/2012**	**8/15/2012**
Chromium	**6.6**	**4.8**	**4.5 J**	**5.6 J**	**5.8**	**3 J**	**6.1**	**3.1 J**	**4.5 J**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**2.5 J**	**1.8 J**	**1.1 J**	**1.7 J**	**1.1 J**	**1.1 J**	**1.7 J**	**1.2 J**	**1.6 J**
Copper	**4.9**	**1.9**	**2.5 J**	**2.4 J**	**3.5 J**	**1.5 J**	**2.8 J**	**3.7 J**	**2.8 J**
Iron	**5,970**	**3,990**	**3,590**	**5,210**	**3,060**	**2,920**	**4,910**	**2,850**	**4,510**
Lead	**4.1 J**	<57	**2.2 J**	<12	**1.6 J**	<10	**2.8 J**	**2.1 J**	**2.1 J**
Magnesium	**3,350**	**3,090**	**2,480**	**3,520**	**3,990**	**2,890**	**4,820**	**3,610**	**6,730**
Manganese	**74**	**56.7**	**87.5**	**71**	**84.9**	**37.4**	**73.5**	**54.2**	**39.4**
Mercury	<0.096	<0.098	<0.097	<0.1	<0.1	<0.11	<0.11	<0.11	<0.1
Nickel	**5.2**	**4.2**	**3 J**	**5 J**	**3.5 J**	**2.5 J**	**5.3 J**	**3 J**	**4.4 J**
Potassium	**2,260**	**1,770**	**854 J**	**1,330 J**	**772 J**	**880 J**	**1,320 J**	**883 J**	**1,100 J**
Selenium	**2.5 J**	**4.1 J**	<9.4	<12	<11	<10	<8.5	<10	<11
Silver	<0.55	<57	<4.7	<3	<2.6	<2.5	<2.1	<2.5	<2.7
Sodium	**231 J**	**412 J**	<4,700	<3,000	<2,600	**1,350 J**	**2,030 J**	<2,500	**883 J**
Vanadium	**13.9**	**13.5**	**10.9 J**	**13.3 J**	**8.9 J**	**9.2 J**	**13.5**	**14.6**	**16.3**
Zinc	**18.3**	**11**	**12.2**	**11.3 J**	**12.4**	**7 J**	**13.4**	**20**	**10.8 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-DP31-11 (Average)	SS18-DP32-12	SS18-DP33-8 (Average)	SS18-DP34-8	SS18-DP35-5	SS18-DP36-7	SS18-DP37-8	SS18-DP38-8 (Average)	SS18-DP39-8
Sample Depth (ft bgs)	**11**	**12**	**8**	**8**	**5**	**7**	**8**	**8**	**8**
Date Sampled	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/14/2012**
VOCs (mg/kg)									
Acetone	<0.053	<0.051	<0.053	<0.047	<0.056	**0.0248 J**	<0.054	<0.0525	<0.051
Acetonitrile	<0.053	<0.051	<0.053	<0.047	<0.056	<0.052	<0.054	<0.0525	<0.051
n-Butylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
sec-Butylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Carbon disulfide	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
1,1-Dichloroethane	**0.0026**	**0.0145**	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
1,1-Dichloroethylene	**0.0178**	**0.0064**	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
cis-1,2-Dichloroethylene	<0.0053	<0.0051	<0.0053	<0.0047	**0.0024 J**	<0.0052	<0.0054	<0.00525	<0.0051
Ethylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
2-Hexanone	<0.0265	<0.025	<0.027	<0.023	<0.028	<0.026	<0.027	<0.0265	<0.026
Hexachlorobutadiene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Isopropylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
p-Isopropyltoluene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Methylene chloride	<0.0105	<0.01	<0.0105	<0.0094	<0.011	<0.01	<0.011	<0.0105	<0.01
Naphthalene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
n-Propylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
1,1,1-Trichloroethane	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
1,2,4-Trimethylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
1,3,5-Trimethylbenzene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Tetrachloroethene	**0.0027**	**0.0227**	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Toluene	<0.0053	**0.0018 J**	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
Trichloroethylene	<0.0053	**0.0054**	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
m,p-Xylene	<0.0105	<0.01	<0.0105	<0.0094	<0.011	<0.01	<0.011	<0.0105	<0.01
o-Xylene	<0.0053	<0.0051	<0.0053	<0.0047	<0.0056	<0.0052	<0.0054	<0.00525	<0.0051
SVOCs (mg/kg)									
Benzo(a)anthracene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
Benzo(b)fluoranthene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
Chrysene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
bis(2-Ethylhexyl)phthalate	<0.46	<0.41	<0.455	<0.45	<0.45	<0.44	<0.44	<0.445	<0.43
Fluoranthene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
Fluorene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
Phenanthrene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
Pyrene	<0.23	<0.21	<0.225	<0.23	<0.22	<0.22	<0.22	<0.22	<0.21
TPHs (mg/kg)									
TPH (C10-C36)	<23	<20	<23	**10.84**	**12.47**	<22	<22	<22	**13.76**
Metals (mg/kg)									
Aluminum	**3,402**	**6,050**	**3,520**	**3,810**	**1,210**	**3,830**	**5,440**	**4,805**	**2,370**
Antimony	<10.25	<5.1	<11.5	<11	<13	<10	<6.5	<10.25	<12
Arsenic	**3.25**	**3.2**	**2.85**	**1.1 J**	**1.2 J**	**1.7 J**	**1.9 J**	**2.3**	**1.3 J**
Barium	**37.55**	**28.1 J**	**38.9**	**32.9 J**	**28.9 J**	**40.7 J**	**52.6 J**	**53.55**	**25 J**
Beryllium	**0.48**	<1.3	<1.45	<1.3	<1.6	<1.3	<1.6	<1.25	<3.1
Cadmium	<2.1	<1	<2.35	<2.1	<2.6	<2	<1.3	<2	<2.5
Calcium	**186,000**	**116,000**	**186,500**	**193,000**	**215,000**	**139,000**	**162,000**	**167,000**	**151,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP31-11 (Average)**	**SS18-DP32-12**	**SS18-DP33-8 (Average)**	**SS18-DP34-8**	**SS18-DP35-5**	**SS18-DP36-7**	**SS18-DP37-8**	**SS18-DP38-8 (Average)**	**SS18-DP39-8**
Sample Depth (ft bgs)	**11**	**12**	**8**	**8**	**5**	**7**	**8**	**8**	**8**
Date Sampled	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/15/2012**	**8/15/2012**	**8/15/2012**	**8/16/2012**	**8/14/2012**
Chromium	**3.775**	**6.5**	**2.9**	**3.2 J**	**0.78 J**	**3.2 J**	**4.8**	**5.2**	**2.5 J**
Chromium (VI)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	**5.75**	**2 J**	**0.975**	**1.2 J**	**0.45 J**	**1.1 J**	**1.8 J**	**1.85**	**0.67 J**
Copper	**3.4**	**2.4 J**	**2.05**	**2.3 J**	**2.3 J**	**2.2 J**	**2.6 J**	**2.95**	<15
Iron	**2,901**	**5,150**	**2,635**	**3,370**	**993**	**3,320**	**4,350**	**4,940**	**2,050**
Lead	**3.9**	**2.8 J**	**1.65**	**1.3 J**	**0.71 J**	**1.5 J**	**2 J**	**2.5**	<12
Magnesium	**4,215**	**5,120**	**4,170**	**2,180**	**913 J**	**3,180**	**4,660**	**4,650**	**1,760 J**
Manganese	**192.95**	**70.5**	**40.85**	**40.7**	**11.5**	**40.5**	**69.3**	**68.4**	**26.2**
Mercury	<0.11	<0.096	<0.11	<0.11	<0.1	<0.11	<0.1	<0.1045	<0.098
Nickel	**4.55**	**5.1 J**	**2.4**	**3.2 J**	**1.2 J**	**2.7 J**	**4.5 J**	**5**	**1.6 J**
Potassium	**807**	**1,360 J**	**740.5**	**902 J**	**314 J**	**832 J**	**1,250 J**	**1,115**	**642 J**
Selenium	<10.25	<5.1	<11.5	<11	<13	<10	<6.5	<10.25	<12
Silver	<2.6	<2.5	<2.9	<2.7	<3.3	<2.5	<3.3	<2.55	<6.2
Sodium	**1,365**	**1,370 J**	<2,900	**333 J**	<3,300	**342 J**	<3,300	**315.5**	<6,200
Vanadium	**13.65**	**18.6**	**11.05**	**15.2**	**4.4 J**	**12.8 J**	**15.8 J**	**14.1**	**5.3 J**
Zinc	**9.2**	**12.7**	**8.8**	**8.5 J**	**4 J**	**9 J**	**12.1**	**12.8**	**6.8 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP40-8**	**SS18-DP41-7**	**SS18-DP42-5**	**SS18-DP43-5**	**SS18-DP44-7**	**SS18-DP46-8**
Sample Depth (ft bgs)	**8**	**7**	**5**	**5**	**7**	**8**
Date Sampled	**8/14/2012**	**8/17/2012**	**8/16/2012**	**8/16/2012**	**8/16/2012**	**8/17/2012**
VOCs (mg/kg)						
Acetone	<0.054	<0.047	<0.052	<0.05	<0.059	<0.049
Acetonitrile	<0.054	<0.047	<0.052	<0.05	<0.059	<0.049
n-Butylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
sec-Butylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Carbon disulfide	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
1,1-Dichloroethane	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
1,1-Dichloroethylene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
cis-1,2-Dichloroethylene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Ethylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
2-Hexanone	<0.027	<0.024	<0.026	<0.025	<0.03	<0.024
Hexachlorobutadiene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Isopropylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
p-Isopropyltoluene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Methylene chloride	<0.011	<0.0095	<0.01	<0.01	<0.012	<0.0097
Naphthalene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
n-Propylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
1,1,1-Trichloroethane	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
1,2,4-Trimethylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
1,3,5-Trimethylbenzene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Tetrachloroethene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Toluene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
Trichloroethylene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
m,p-Xylene	<0.011	<0.0095	<0.01	<0.01	<0.012	<0.0097
o-Xylene	<0.0054	<0.0047	<0.0052	<0.005	<0.0059	<0.0049
SVOCs (mg/kg)						
Benzo(a)anthracene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
Benzo(b)fluoranthene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
Chrysene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
bis(2-Ethylhexyl)phthalate	<0.46	<0.43	<0.49	<0.45	<0.48	<0.45
Fluoranthene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
Fluorene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
Phenanthrene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
Pyrene	<0.23	<0.21	<0.24	<0.23	<0.24	<0.22
TPHs (mg/kg)						
TPH (C10-C36)	<22	<22	<24	<22	<24	<22
Metals (mg/kg)						
Aluminum	**2,790**	**5,440**	**5,020**	**1,350**	**3,490**	**4,660**
Antimony	<11	<8.8	<14	<18	<13	<12
Arsenic	**1.3 J**	**3.1**	**2.5 J**	**1.8 J**	**1.5 J**	**0.78 J**
Barium	**23.2 J**	**68.6**	**48.3 J**	**34 J**	**36 J**	**45.6 J**
Beryllium	<2.8	<1.1	<1.7	<1.1	<1.6	<1.5
Cadmium	<2.3	<1.8	<2.8	<3.6	<2.5	<2.3
Calcium	**171,000**	**127,000**	**176,000**	**248,000**	**180,000**	**150,000**

Table 8-1(b)
Soil Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	**SS18-DP40-8**	**SS18-DP41-7**	**SS18-DP42-5**	**SS18-DP43-5**	**SS18-DP44-7**	**SS18-DP46-8**
Sample Depth (ft bgs)	**8**	**7**	**5**	**5**	**7**	**8**
Date Sampled	**8/14/2012**	**8/17/2012**	**8/16/2012**	**8/16/2012**	**8/16/2012**	**8/17/2012**
Chromium	**2.8 J**	**4.9**	**4.1 J**	**1 J**	**3 J**	**4.2 J**
Chromium (VI)	NA	NA	NA	NA	NA	NA
Cobalt	**1.2 J**	**1.7 J**	**1.9 J**	**0.73 J**	**1.2 J**	**1.2 J**
Copper	**1.1 J**	**3.2 J**	**3.2 J**	**2.5 J**	**2.2 J**	**1.7 J**
Iron	**2,510**	**4,580**	**4,550**	**1,130**	**3,150**	**3,690**
Lead	**0.86 J**	**1.2 J**	**2.4 J**	<18	**1.1 J**	<12
Magnesium	**1,560 J**	**1,780**	**4,490**	**761 J**	**2,500**	**3,370**
Manganese	**72.2**	**71.7**	**60.2**	**15.9**	**78.1**	**40.5**
Mercury	<0.11	<0.099	<0.12	<0.11	<0.11	<0.1
Nickel	**2.1 J**	**3.9 J**	**4.5 J**	**1.3 J**	**3.3 J**	**2.8 J**
Potassium	**684 J**	**1,400 J**	**1,320 J**	**399 J**	**811 J**	**1,130 J**
Selenium	<11	<8.8	<14	<18	<13	<12
Silver	<5.6	<2.2	<3.5	<2.2	<3.2	<2.9
Sodium	<5,600	<2,200	<3,500	<2,200	<3,200	**1,560 J**
Vanadium	**5.8 J**	**12**	**16.5 J**	**4.8 J**	**11.3 J**	**8.2 J**
Zinc	**7.1 J**	**12.6**	**11.5 J**	<18	**8.2 J**	**9.6 J**

Notes:

A = Duplicate sample

B = Analyte found in method blank

ft bgs = Feet below ground surface

J = Estimated value

mg/kg = Milligrams per kilogram

NA = Not analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-1(c)
Summary of Soil Data
SS-18, Holloman Air Force Base, New Mexico

Chemical	Number of Samples	Number of Detects	Detected Concentration		Reporting Limit	
			Maximum	Minimum	Maximum	Minimum
			(mg/kg)			
VOCs						
Acetone	60	2	0.102	0.0248	0.065	0.021
Acetonitrile	54	2	0.106	0.0233	0.065	0.046
n-Butylbenzene	60	1	0.0443	0.0443	0.0065	0.0046
sec-Butylbenzene	60	2	0.0289	0.00375	0.0065	0.0046
Carbon disulfide	54	4	0.032	0.00203	0.0065	0.0046
1,1-Dichloroethane	60	10	0.1065	0.00039	0.0065	0.0047
1,1-Dichloroethylene	60	8	0.0258	0.0021	0.0065	0.0047
cis-1,2-Dichloroethylene	60	2	0.0029	0.0024	0.0065	0.0026
Ethylbenzene	60	2	0.0397	0.0213	0.0065	0.0046
2-Hexanone	60	1	0.0062	0.0062	0.032	0.0054
Hexachlorobutadiene	60	1	0.00206	0.00206	0.0065	0.0046
Isopropylbenzene	60	2	0.0184	0.00375	0.0065	0.0046
p-Isopropyltoluene	60	1	0.0304	0.0304	0.0065	0.0046
Methylene chloride	60	14	0.0196	0.0055	0.013	0.0053
Naphthalene	60	4	0.119	0.0012	0.0065	0.0046
n-Propylbenzene	60	2	0.0469	0.00415	0.0065	0.0046
1,1,1-Trichloroethane	60	4	0.0333	0.0028	0.0065	0.0046
1,2,4-Trimethylbenzene	60	1	0.102	0.102	0.0065	0.0046
1,3,5-Trimethylbenzene	60	1	0.0192	0.0192	0.0065	0.0046
Tetrachloroethene	60	4	0.0949	0.0027	0.0065	0.0047
Toluene	60	3	0.0038	0.0018	0.0065	0.0046
Trichloroethylene	60	3	0.0096	0.0042	0.0065	0.0047
m,p-Xylene	60	1	0.0155	0.0155	0.013	0.0026
o-Xylene	60	2	0.00375	0.0018	0.0065	0.0026
SVOCs						
Benzo(a)anthracene	60	1	0.263	0.263	0.89	0.18
Benzo(b)fluoranthene	60	1	0.0576	0.0576	0.915	0.18
Chrysene	60	2	0.264	0.0401	0.89	0.18
bis(2-Ethylhexyl)phthalate	60	2	0.716	0.074	1.6	0.36
Fluoranthene	60	1	0.0519	0.0519	0.915	0.18
Fluorene	60	1	0.0504	0.0504	0.915	0.18
Phenanthrene	60	1	0.123	0.123	0.915	0.18
Pyrene	60	1	0.0478	0.0478	0.915	0.18
TPHs						
TPH (C10-C36)	60	14	115	4.4	24	17.8
Total Metals						
Aluminum	60	60	9,900	458	N/A	N/A
Antimony	60	3	3	1.2	38	1.8
Arsenic	60	35	3.6	0.78	5.1	2.3
Barium	60	60	225	8.9	N/A	N/A
Beryllium	60	25	0.96	0.12	3.2	0.64
Cadmium	60	7	0.51	0.053	3.6	0.22
Calcium	60	60	248,000	79,300	N/A	N/A
Chromium	60	55	8.5	0.67	6.3	1.1
Chromium (VI)	6	4	0.04	0.027	0.13	0.12
Cobalt	60	58	5.75	0.45	32	28
Copper	60	55	6.5	0.86	16	13
Iron	60	60	8,130	258	N/A	N/A
Lead	60	33	12	0.71	63	10
Magnesium	60	60	12,000	683	N/A	N/A
Manganese	60	60	195	5.4	N/A	N/A
Mercury	60	3	0.021	0.015	0.12	0.04
Nickel	60	56	8.5	1.2	25	11
Potassium	60	60	2,570	243	N/A	N/A
Selenium	60	32	6	1.7	18	1.6
Silver	60	1	0.6	0.6	57	0.54
Sodium	60	33	2,030	72.9	6,300	2,200
Vanadium	60	60	18.6	2	N/A	N/A
Zinc	60	57	31.4	1.2	18	11

Notes:
mg/kg = Milligrams per kilogram
N/A = Not applicable
VOC = Volatile organic compound
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon

Table 8-1(d)
Comparison of Maximum Detected Concentrations in Soil with Screening Levels
SS-18, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration	Screening Level		Exceed/Not Exceed	COPC
		(mg/kg)	Source		
VOCs					
Acetone	0.102	66,600	1	Not Exceed	No
Acetonitrile	0.106	870	2	Not Exceed	No
n-Butylbenzene	0.0443	3,900	2	Not Exceed	No
sec-Butylbenzene	0.0289	3,130	4	Not Exceed	No
Carbon disulfide	0.032	1,530	1	Not Exceed	No
1,1-Dichloroethane	0.1065	64.5	1	Not Exceed	No
1,1-Dichloroethylene	0.0258	449	1	Not Exceed	No
cis-1,2-Dichloroethylene	0.0029	156	1	Not Exceed	No
Ethylbenzene	0.0397	68.4	1	Not Exceed	No
2-Hexanone	0.0062	210	2	Not Exceed	No
Hexachlorobutadiene	0.00206	61.1	1	Not Exceed	No
Isopropylbenzene	0.0184	2,430	1	Not Exceed	No
p-Isopropyltoluene	0.0304	7,820	4	Not Exceed	No
Methylene chloride	0.0196	409	1	Not Exceed	No
Naphthalene	0.119	43	1	Not Exceed	No
n-Propylbenzene	0.0469	3,400	2	Not Exceed	No
1,1,1-Trichloroethane	0.0333	15,600	1	Not Exceed	No
1,2,4-Trimethylbenzene	0.102	62	2	Not Exceed	No
1,3,5-Trimethylbenzene	0.0192	780	2	Not Exceed	No
Tetrachloroethene	0.0949	7.02	1	Not Exceed	No
Toluene	0.0038	5,270	1	Not Exceed	No
Trichloroethylene	0.0096	8.77	1	Not Exceed	No
m,p-Xylene*	0.0155	774	1	Not Exceed	No
o-Xylene	0.00375	898	1	Not Exceed	No
SVOCs					
Benzo(a)anthracene	0.263	1.48	1	Not Exceed	No
Benzo(b)fluoranthene	0.0576	1.48	1	Not Exceed	No
Chrysene	0.264	148	1	Not Exceed	No
bis(2-Ethylhexyl)phthalate	0.716	347	1	Not Exceed	No
Fluoranthene	0.0519	2,290	1	Not Exceed	No
Fluorene	0.0504	2,290	1	Not Exceed	No
Phenanthrene	0.123	1,830	1	Not Exceed	No
Pyrene	0.0478	1,720	1	Not Exceed	No
TPHs					
TPH (C10-C36)**	115	1,000	1	Not Exceed	No
Total Metals					
Aluminum	9,900	78,000	1	Not Exceed	No
Antimony	3	31.3	1	Not Exceed	No
Arsenic	3.6	3.9	1	Not Exceed	No
Barium	225	15,600	1	Not Exceed	No
Beryllium	0.96	156	1	Not Exceed	No
Cadmium	0.51	70.3	1	Not Exceed	No
Calcium	248,000	317,332	3	Not Exceed	No
Chromium***	8.5	117,000	1	Not Exceed	No
Chromium (VI)	0.04	2.97	1	Not Exceed	No
Cobalt	5.75	23	2	Not Exceed	No
Copper	6.5	3,130	1	Not Exceed	No
Iron	8,130	54,800	1	Not Exceed	No
Lead	12	400	1	Not Exceed	No

Table 8-1(d)
Comparison of Maximum Detected Concentrations in Soil with Screening Levels
SS-18, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration	Screening Level		Exceed/Not Exceed	COPC
		(mg/kg)	Source		
Magnesium	12,000	16,991	3	Not Exceed	No
Manganese	195	1,860	1	Not Exceed	No
Mercury	0.021	15.6	1	Not Exceed	No
Nickel	8.5	1,560	1	Not Exceed	No
Potassium	2,570	5,077	3	Not Exceed	No
Selenium	6	391	1	Not Exceed	No
Silver	0.6	391	1	Not Exceed	No
Sodium	2,030	5,196	3	Not Exceed	No
Vanadium	18.6	391	1	Not Exceed	No
Zinc	31.4	23,500	1	Not Exceed	No

Notes:
COPC = Chemical of potential concern
mg/kg = Milligrams per kilogram
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
* = Screening level for m-xylene
** = Screening guideline for residential direct exposure and an unknown oil
*** = Screening level for chromium III

Sources:
1 = NMED, 2012a. *Risk Assessment Guidance for Site Investigations and Remediation* , February 2012 (Updated June 2012)
2 = USEPA, 2012. Regional Screening Level (RSL) Summary Table (November 2012)
3 = NMED Approved HAFB Background Levels (NMED, 2011)
4 = Screening levels developed using the methodology for residential scenario in the NMED guidance (2012a)

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW02	SS18-MW02	SS18-MW02	SS18-MW03	SS18-MW03-A	SS18-MW03	SS18-MW03	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04
Date Sampled	**6/9/2007**	**8/24/2009**	**9/13/2012**	**6/8/2007**	**6/8/2007**	**8/24/2009**	**9/14/2012**	**6/8/2007**	**6/10/2007**	**7/25/2007**	**8/19/2009**
VOCs (mg/L)											
Acetone	<0.01	<0.025	<0.025	<0.01	<0.01	<0.025	<0.025	<0.01	NA	<0.01	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00082 J**	NA	**0.00025 J**	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Chloroform	**0.0051**	**0.0052**	**0.0069**	**0.00041 J**	**0.00042 J**	**0.00041 J**	**0.00039 J**	**0.0032**	NA	**0.0047**	**0.0039**
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Carbon disulfide	NA	<0.002	<0.002	NA	NA	<0.002	<0.002	NA	NA	NA	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
1,1-Dichloroethane	**0.0082**	**0.0034**	**0.0029**	<0.001	<0.001	<0.001	<0.001	**0.015**	NA	**0.022**	**0.0183**
1,1-Dichloroethylene	**0.012**	**0.0105**	**0.0043**	<0.001	<0.001	<0.001	<0.001	**0.018**	NA	**0.04**	**0.0566**
1,2-Dichloroethane	**0.00014 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0011**	NA	**0.0012**	**0.00089 J**
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Methyl chloride	**0.00053 J**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0014 J**	NA	**0.00033 J**	<0.002
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00047 J**	NA	**0.00068 J**	**0.0011 J**
Methyl ethyl ketone	<0.006	<0.005	<0.005	<0.006	<0.006	<0.005	<0.005	<0.006	NA	<0.006	<0.005
Methyl tert butyl ether	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.005	NA	<0.005	<0.001
Naphthalene	<0.001	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001	NA	<0.001	<0.005
1,1,1-Trichloroethane	**0.0039**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Toluene	<0.001	**0.0016**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00072 J**	NA	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA
bis-(2-Ethylhexyl)phthalate	**0.0016 J**	<0.0063	<0.0048	<0.01	<0.01	<0.0051	<0.0048	NA	NA	**0.0055 J**	NA
Dibenzofuran	<0.001	<0.0063	<0.0048	<0.01	<0.01	<0.0051	<0.0048	NA	NA	<0.001	NA
Di-n-butyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA
1-Methylnaphthalene	NA	NA	<0.0048	NA	NA	NA	<0.0048	NA	NA	NA	NA
Pentachlorophenol	<0.06	<0.032	<0.024	<0.06	<0.06	<0.026	<0.024	NA	NA	<0.06	NA
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	NA	<0.1	<0.1	NA	NA	<0.1	<0.1	NA	NA	NA	<0.1
Diesel Range Organics (C10-C22)	NA	<0.33	<0.25	NA	NA	<0.27	<0.25	NA	NA	NA	NA
Oil Range Organics (>C22-C36)	NA	**0.136 J**	<0.25	NA	NA	<0.27	<0.25	NA	NA	NA	NA
Metals (mg/L)											
Aluminum	<0.1	<0.2	**0.0755 J**	<0.1	<0.1	<0.8	**0.151 J**	NA	<0.1	<0.1	NA
Antimony	<0.01	**0.007**	<0.006	<0.01	<0.01	<0.012	**0.0086 J**	NA	<0.01	<0.01	NA
Arsenic	<0.015	**0.0108**	**0.0133**	**0.017**	**0.018**	**0.0149 J**	**0.0296**	NA	<0.015	<0.015	NA
Barium	**0.026**	**0.0151 J**	**0.0166 J**	**0.022**	**0.022**	**0.0195 J**	**0.0201 J**	NA	**0.07**	**0.048**	NA
Cadmium	**0.00062 B**	<0.005	<0.005	**0.0008 B**	**0.00083 B**	<0.005	<0.01	NA	**0.001 B**	**0.0016 B**	NA

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW02	SS18-MW02	SS18-MW02	SS18-MW03	SS18-MW03-A	SS18-MW03	SS18-MW03	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04
Date Sampled	**6/9/2007**	**8/24/2009**	**9/13/2012**	**6/8/2007**	**6/8/2007**	**8/24/2009**	**9/14/2012**	**6/8/2007**	**6/10/2007**	**7/25/2007**	**8/19/2009**
Calcium	**490 J**	**433**	**532**	**610 J**	**640 J**	**670**	**734**	NA	**610 J**	**590 J**	NA
Chromium	<0.01	<0.01	**0.0022 J**	<0.01	<0.01	<0.01	**0.022**	NA	<0.01	<0.01	NA
Cobalt	**0.0028 B**	<0.05	<0.05	**0.0013 B**	**0.0013 B**	<0.05	**0.0006 J**	NA	**0.0046 B**	**0.005 B**	NA
Copper	**0.0073 B**	<0.025	<0.025	**0.0055 B**	<0.015	**0.0145 J**	**0.0101 J**	NA	**0.017**	**0.011 B**	NA
Iron	<0.1	**0.0316 J**	**0.0716 J**	**0.093 JB**	**0.051 JB**	**0.188 J**	**0.652**	NA	<0.1	**0.068 B**	NA
Lead	<0.009	<0.005	**0.0012 J**	<0.009	<0.009	<0.02	<0.01	NA	<0.009	**0.0058 B**	NA
Magnesium	**250**	**281**	**243**	**920**	**980**	**1,220**	**1,040**	NA	**420**	**290**	NA
Manganese	**0.65**	<0.015	**0.0015 J**	**0.097**	**0.092**	**0.0386**	**0.0287 J**	NA	**0.87**	**0.45**	NA
Mercury	<0.0002	<0.001	<0.001	<0.0002	<0.0002	<0.001	<0.001	NA	<0.0002	<0.0002	NA
Nickel	**0.014 B**	**0.0023 J**	<0.04	<0.04	<0.04	**0.0359 J**	**0.0071 J**	NA	**0.023 B**	**0.021 B**	NA
Potassium	**13 L**	**19.3**	**12.1**	**24**	**25 L**	**76.7**	**35.6**	NA	**24 L**	**22**	NA
Selenium	<0.015	**0.0081 J**	<0.01	<0.015	**0.007 B**	**0.0244**	**0.012 J**	NA	<0.015	**0.0062 B**	NA
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	NA
Sodium	**420**	**344**	**271**	**4,100**	**4,300**	**4,830**	**4,490**	NA	**1,500**	**1,100**	NA
Thallium	<0.015	**0.0055 J**	<0.01	<0.015	<0.015	**0.0038 J**	<0.02	NA	<0.015	<0.015	NA
Vanadium	**0.012**	**0.0627**	**0.0822**	**0.068**	**0.072**	**0.0775**	**0.107**	NA	**0.0053 B**	**0.037**	NA
Zinc	**0.038**	<0.02	<0.02	**0.025**	**0.0059 B**	<0.02	<0.04	NA	**0.045**	**0.059 J**	NA
Dissolved Metals (mg/L)											
Aluminum	NA	NA	**0.0681 J**	NA	NA	NA	**0.0722 J**	NA	NA	NA	NA
Antimony	NA	NA	<0.006	NA	NA	NA	**0.0089 J**	NA	NA	NA	NA
Arsenic	NA	NA	**0.0133**	NA	NA	NA	**0.0253**	NA	NA	NA	NA
Barium	NA	NA	**0.0152 J**	NA	NA	NA	**0.0204 J**	NA	NA	NA	NA
Calcium	NA	NA	**503**	NA	NA	NA	**744**	NA	NA	NA	NA
Chromium	NA	NA	**0.0015 J**	NA	NA	NA	<0.02	NA	NA	NA	NA
Cobalt	NA	NA	<0.05	NA	NA	NA	<0.05	NA	NA	NA	NA
Copper	NA	NA	<0.025	NA	NA	NA	**0.0062 J**	NA	NA	NA	NA
Iron	NA	NA	<0.3	NA	NA	NA	<0.3	NA	NA	NA	NA
Lead	NA	NA	<0.005	NA	NA	NA	<0.01	NA	NA	NA	NA
Magnesium	NA	NA	**231**	NA	NA	NA	**990**	NA	NA	NA	NA
Manganese	NA	NA	<0.015	NA	NA	NA	**0.0262 J**	NA	NA	NA	NA
Nickel	NA	NA	<0.04	NA	NA	NA	**0.0058 J**	NA	NA	NA	NA
Potassium	NA	NA	**11.7**	NA	NA	NA	**34.1**	NA	NA	NA	NA
Selenium	NA	NA	<0.01	NA	NA	NA	**0.0085 J**	NA	NA	NA	NA
Sodium	NA	NA	**263**	NA	NA	NA	**4,380**	NA	NA	NA	NA
Thallium	NA	NA	<0.01	NA	NA	NA	**0.0046 J**	NA	NA	NA	NA
Vanadium	NA	NA	**0.0763**	NA	NA	NA	**0.0976**	NA	NA	NA	NA
Zinc	NA	NA	**0.0053 J**	NA	NA	NA	<0.04	NA	NA	NA	NA

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW05	SS18-MW05	SS18-MW06	SS18-MW06	SS18-MW06-A	SS18-MW06
Date Sampled	**8/20/2009**	**8/21/2009**	**9/14/2012**	**9/17/2012**	**10/18/2007**	**8/19/2009**	**9/12/2012**	**10/19/2007**	**8/18/2009**	**8/18/2009**	**9/12/2012**
VOCs (mg/L)											
Acetone	NA	NA	<0.025	NA	<0.01	<0.025	<0.025	**0.0025 J**	<0.025	<0.025	<0.025
Benzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	NA	NA	**0.004**	NA	**0.002**	<0.001	**0.00054 J**	**0.014**	**0.0153**	**0.0145**	**0.00069 J**
o-Chlorotoluene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	NA	NA	<0.002	NA	NA	<0.002	<0.002	NA	<0.002	<0.002	<0.002
Carbon tetrachloride	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	NA	NA	**0.0252**	NA	**0.02**	**0.0113**	**0.17**	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene	NA	NA	**0.0359**	NA	**0.016**	**0.0064**	**0.0544**	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	NA	NA	**0.00043 J**	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	NA	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	NA	NA	<0.001	NA	**0.0013**	<0.001	<0.001	**0.00067 J**	<0.001	<0.001	<0.001
Methyl chloride	NA	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	NA	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	NA	NA	<0.005	NA	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.005
Methyl tert butyl ether	NA	NA	<0.001	NA	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001
Naphthalene	NA	NA	<0.005	NA	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	NA	NA	**0.00071 J**	NA	**0.011**	**0.0054**	**0.0569**	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	NA	NA	**0.00032 J**	NA	<0.001	<0.001	<0.001	<0.001	**0.00023 J**	**0.00023 J**	<0.001
Toluene	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	NA	NA	<0.001	NA	<0.001	<0.001	**0.00026 J**	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	NA	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	**0.0013 J**	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.005	<0.006	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0051	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.005	<0.006	<0.0048
Dibenzofuran	<0.0051	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.005	<0.006	<0.0048
Di-n-butyl phthalate	<0.0051	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.005	<0.006	<0.0048
1-Methylnaphthalene	NA	NA	NA	<0.0048	NA	NA	<0.005	NA	NA	NA	<0.0048
Pentachlorophenol	<0.026	NA	NA	<0.024	NA	<0.026	<0.025	NA	<0.025	<0.03	<0.024
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	NA	NA	<0.1	NA	NA	<0.1	**0.165**	NA	<0.1	<0.1	<0.1
Diesel Range Organics (C10-C22)	**0.641**	NA	NA	**0.164 J**	NA	<0.29	<0.24	NA	<0.26	<0.26	<0.26
Oil Range Organics (>C22-C36)	**0.165 J**	NA	NA	**0.247**	NA	<0.29	**0.136 J**	NA	<0.26	<0.26	<0.26
Metals (mg/L)											
Aluminum	NA	**0.107 J**	**0.588**	NA	NA	**0.0132 J**	**0.0415 J**	NA	**0.0193 J**	**0.014 J**	<0.2
Antimony	NA	<0.012	**0.0026 J**	NA	NA	<0.012	<0.006	NA	<0.012	<0.012	<0.006
Arsenic	NA	**0.0155 J**	**0.0266**	NA	NA	**0.0094 J**	**0.01**	NA	**0.0197 J**	**0.0172**	**0.0188**
Barium	NA	**0.0239 J**	**0.0191 J**	NA	NA	**0.0197 J**	**0.0201 J**	NA	**0.0153 J**	**0.015 J**	**0.0157 J**
Cadmium	NA	<0.005	<0.01	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW05	SS18-MW05	SS18-MW06	SS18-MW06	SS18-MW06-A	SS18-MW06
Date Sampled	**8/20/2009**	**8/21/2009**	**9/14/2012**	**9/17/2012**	**10/18/2007**	**8/19/2009**	**9/12/2012**	**10/19/2007**	**8/18/2009**	**8/18/2009**	**9/12/2012**
Calcium	NA	**660**	**572**	NA	NA	**486**	**630**	NA	**560**	**494**	**599**
Chromium	NA	<0.01	**0.257**	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01
Cobalt	NA	<0.05	<0.05	NA	NA	<0.05	<0.05	NA	<0.05	<0.05	<0.05
Copper	NA	**0.0124 J**	**0.177**	NA	NA	<0.025	<0.025	NA	<0.025	<0.025	<0.025
Iron	NA	**0.15 J**	**1.5**	NA	NA	**0.0574 J**	<0.3	NA	**0.0417 J**	<0.3	<0.3
Lead	NA	<0.01	<0.01	NA	NA	<0.005	<0.005	NA	<0.01	<0.005	**0.0021 J**
Magnesium	NA	**610**	**408**	NA	NA	**81.2**	**86.7**	NA	**118**	**116**	**113**
Manganese	NA	**0.0362**	**0.0149 J**	NA	NA	**0.0084 J**	**0.0018 J**	NA	<0.015	<0.015	<0.015
Mercury	NA	<0.001	<0.001	NA	NA	<0.001	<0.001	NA	<0.001	<0.001	<0.001
Nickel	NA	**0.029 J**	**0.0082 J**	NA	NA	<0.04	<0.04	NA	<0.04	<0.04	<0.04
Potassium	NA	**51.8**	**15**	NA	NA	**11.3**	**7.82 J**	NA	**15.8**	**16.1**	**15.8**
Selenium	NA	**0.0205**	<0.02	NA	NA	<0.02	<0.01	NA	**0.017 J**	<0.02	<0.01
Silver	NA	<0.01	<0.01	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01
Sodium	NA	**2,370**	**1,300**	NA	NA	**51.5**	**76.1**	NA	**85.1**	**82.3**	**213**
Thallium	NA	**0.0055 J**	<0.02	NA	NA	<0.01	**0.0019 J**	NA	<0.01	<0.01	<0.01
Vanadium	NA	**0.109**	**0.185**	NA	NA	**0.0827**	**0.093**	NA	**0.107**	**0.106**	**0.114**
Zinc	NA	**0.048**	<0.04	NA	NA	<0.02	<0.02	NA	<0.02	<0.02	<0.02
Dissolved Metals (mg/L)											
Aluminum	NA	NA	NA	**0.0474 J**	NA	NA	<0.2	NA	NA	NA	<0.2
Antimony	NA	NA	NA	**0.0046 J**	NA	NA	<0.006	NA	NA	NA	<0.006
Arsenic	NA	NA	NA	**0.016**	NA	NA	**0.0114**	NA	NA	NA	**0.0196**
Barium	NA	NA	NA	**0.0149 J**	NA	NA	**0.0185 J**	NA	NA	NA	**0.0167 J**
Calcium	NA	NA	NA	**534**	NA	NA	**598**	NA	NA	NA	**606**
Chromium	NA	NA	NA	**0.002 J**	NA	NA	<0.01	NA	NA	NA	<0.01
Cobalt	NA	NA	NA	<0.05	NA	NA	<0.05	NA	NA	NA	<0.05
Copper	NA	NA	NA	**0.0109 J**	NA	NA	<0.025	NA	NA	NA	<0.025
Iron	NA	NA	NA	<0.3	NA	NA	<0.3	NA	NA	NA	<0.3
Lead	NA	NA	NA	<0.005	NA	NA	**0.0019 J**	NA	NA	NA	**0.0018 J**
Magnesium	NA	NA	NA	**431**	NA	NA	**82.5**	NA	NA	NA	**115**
Manganese	NA	NA	NA	**0.0026 J**	NA	NA	**0.0016 J**	NA	NA	NA	<0.015
Nickel	NA	NA	NA	**0.0065 J**	NA	NA	<0.04	NA	NA	NA	<0.04
Potassium	NA	NA	NA	**15**	NA	NA	**7.56 J**	NA	NA	NA	**16.5**
Selenium	NA	NA	NA	<0.01	NA	NA	<0.01	NA	NA	NA	<0.01
Sodium	NA	NA	NA	**1,660**	NA	NA	**77.1**	NA	NA	NA	**193**
Thallium	NA	NA	NA	**0.0016 J**	NA	NA	<0.01	NA	NA	NA	<0.01
Vanadium	NA	NA	NA	**0.103**	NA	NA	**0.0882**	NA	NA	NA	**0.119**
Zinc	NA	NA	NA	**0.0077 J**	NA	NA	<0.02	NA	NA	NA	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW07	SS18-MW07	SS18-MW07	SS18-MW08	SS18-MW08	SS18-MW08	SS18-MW08-A	SS18-MW09	SS18-MW09	SS18-MW10	SS18-MW10
Date Sampled	**10/19/2007**	**8/17/2009**	**9/10/2012**	**10/19/2007**	**8/18/2009**	**9/10/2012**	**9/10/2012**	**9/24/2009**	**9/11/2012**	**9/23/2009**	**9/11/2012**
VOCs (mg/L)											
Acetone	<0.01	<0.025	<0.025	<0.01	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	**0.0003 J**	**0.00024 J**	**0.00023 J**	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	**0.0035**	**0.0107**	**0.0066**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	**0.00023 J**	**0.0011**	**0.0014**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	**0.0048**	**0.0017**	<0.001	**0.0032 J**	**0.0032**	**0.0033**	**0.003**	<0.001	<0.001	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	NA	**0.0013 J**	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	**0.0041**	**0.0023**	**0.00029 J**	**0.02**	**0.0375**	**0.0272**	**0.0205**	**0.00051 J**	<0.001	<0.001	<0.001
1,1-Dichloroethylene	**0.013**	**0.008**	<0.001	**0.12**	**0.193**	**0.0955**	**0.0976**	**0.0059**	**0.0012**	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	**0.00095 J**	**0.0009 J**	**0.00076 J**	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	**0.00023 J**	**0.00036 J**	<0.001	<0.001	<0.001	**0.00029 J**	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	**0.0012**	<0.001	<0.001	**0.0013 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	<0.005	<0.005	**0.0016 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.005	<0.001	<0.001	<0.005	**0.00042 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	**0.00057 J**	**0.0021 J**	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	**0.0012**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	**0.0011 J**	**0.0287**	**0.0282**	**0.0163**	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	**0.0059**	**0.0065**	**0.0037**	<0.001	<0.001	**0.0012**	<0.001
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	NA	<0.0048	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	NA	<0.0048	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Dibenzofuran	NA	**0.0011 J**	**0.0014 J**	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Di-n-butyl phthalate	NA	<0.0048	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene	NA	NA	<0.0048	NA	NA	<0.0048	<0.0048	NA	<0.0048	NA	<0.0048
Pentachlorophenol	NA	<0.024	<0.024	NA	<0.025	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	NA	<0.1	**0.0736 J**	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diesel Range Organics (C10-C22)	NA	**0.391**	**1.1**	NA	<0.24	<0.24	<0.24	**0.126 J**	<0.24	<0.25	<0.24
Oil Range Organics (>C22-C36)	NA	<0.26	**0.128 J**	NA	<0.24	<0.24	<0.24	<0.25	<0.24	<0.25	<0.24
Metals (mg/L)											
Aluminum	NA	**0.0146 J**	**0.161 J**	NA	**0.0367 J**	**0.0755 J**	**0.0421 J**	**0.147 J**	**0.175 J**	**0.0354 J**	**1.59**
Antimony	NA	<0.012	<0.006	NA	<0.012	**0.0077**	**0.0068**	<0.006	**0.004 J**	<0.006	**0.0044 J**
Arsenic	NA	**0.009 J**	**0.0363**	NA	**0.0188 J**	**0.0187**	**0.0191**	**0.0155**	**0.0107**	**0.0102**	**0.0166**
Barium	NA	**0.0199 J**	**0.0245 J**	NA	**0.0142 J**	**0.0156 J**	**0.0154 J**	**0.0361 J**	**0.0274 J**	**0.031 J**	**0.0373 J**
Cadmium	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW07	SS18-MW07	SS18-MW07	SS18-MW08	SS18-MW08	SS18-MW08	SS18-MW08-A	SS18-MW09	SS18-MW09	SS18-MW10	SS18-MW10
Date Sampled	**10/19/2007**	**8/17/2009**	**9/10/2012**	**10/19/2007**	**8/18/2009**	**9/10/2012**	**9/10/2012**	**9/24/2009**	**9/11/2012**	**9/23/2009**	**9/11/2012**
Calcium	NA	**486**	**656**	NA	**592**	**812**	**772**	**469**	**516**	**487**	**512**
Chromium	NA	<0.01	**0.0017 J**	NA	<0.01	<0.01	<0.01	<0.01	**0.0029 J**	<0.01	**0.0038 J**
Cobalt	NA	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper	NA	<0.025	**0.0486**	NA	<0.025	<0.025	<0.025	<0.025	**0.0021 J**	<0.025	**0.0034 J**
Iron	NA	**0.119 J**	**0.27 J**	NA	<0.6	<0.3	<0.3	<0.3	**0.141 J**	<0.3	**1.18**
Lead	NA	<0.005	<0.005	NA	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	NA	**111**	**107**	NA	**897**	**1,050**	**1,030**	**356**	**304**	**331**	**296**
Manganese	NA	**0.0798**	**0.0924**	NA	<0.015	<0.015	<0.015	**0.0564**	**0.0787**	**0.24**	**0.0988**
Mercury	NA	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	NA	**0.0024 J**	**0.0199 J**	NA	<0.04	<0.04	<0.04	**0.0033 J**	**0.0055 J**	**0.0067 J**	<0.04
Potassium	NA	**12.2**	**7.49 J**	NA	**51.6**	**20.8**	**19.9**	**24.1**	**11.4**	**19.2**	**6.47 J**
Selenium	NA	<0.02	<0.01	NA	**0.0297**	**0.0076 J**	**0.0034 J**	<0.01	**0.0081 J**	**0.0063 J**	**0.0057 J**
Silver	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	NA	**153**	**179**	NA	**3,930**	**4,620**	**4,760**	**944**	**758**	**567**	**355**
Thallium	NA	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	NA	**0.026 J**	**0.0083 J**	NA	**0.0657**	**0.0708**	**0.0725**	**0.0721**	**0.0761**	**0.0639**	**0.104**
Zinc	NA	<0.02	**1.79**	NA	<0.02	<0.02	<0.02	<0.02	**0.0112 J**	<0.02	**0.0164 J**
Dissolved Metals (mg/L)											
Aluminum	NA	NA	**0.0744 J**	NA	NA	**0.0735 J**	<0.2	NA	**0.0513 J**	NA	**0.0585 J**
Antimony	NA	NA	**0.0031 J**	NA	NA	**0.0067**	<0.006	NA	**0.0031 J**	NA	**0.0026 J**
Arsenic	NA	NA	**0.0035 J**	NA	NA	**0.018**	**0.0217**	NA	**0.0103**	NA	**0.0154**
Barium	NA	NA	**0.0233 J**	NA	NA	**0.0157 J**	**0.0146 J**	NA	**0.0275 J**	NA	**0.019 J**
Calcium	NA	NA	**642**	NA	NA	**785**	**853**	NA	**531**	NA	**521**
Chromium	NA	NA	<0.01	NA	NA	<0.01	<0.01	NA	<0.01	NA	<0.01
Cobalt	NA	NA	<0.05	NA	NA	<0.05	<0.05	NA	<0.05	NA	<0.05
Copper	NA	NA	<0.025	NA	NA	<0.025	<0.025	NA	<0.025	NA	<0.025
Iron	NA	NA	<0.3	NA	NA	<0.3	<0.3	NA	<0.3	NA	<0.3
Lead	NA	NA	<0.005	NA	NA	<0.005	<0.005	NA	<0.005	NA	<0.005
Magnesium	NA	NA	**108**	NA	NA	**1,020**	**1,150**	NA	**323**	NA	**299**
Manganese	NA	NA	**0.083**	NA	NA	<0.015	<0.015	NA	**0.0777**	NA	**0.0633**
Nickel	NA	NA	<0.04	NA	NA	<0.04	<0.04	NA	**0.0049 J**	NA	<0.04
Potassium	NA	NA	**7.52 J**	NA	NA	**20.8**	**24.3**	NA	**11.6**	NA	**6.87 J**
Selenium	NA	NA	**0.0024 J**	NA	NA	**0.0078 J**	**0.0105**	NA	**0.008 J**	NA	**0.0048 J**
Sodium	NA	NA	**180**	NA	NA	**4,560**	**4,420**	NA	**769**	NA	**335**
Thallium	NA	NA	<0.01	NA	NA	<0.01	<0.01	NA	<0.01	NA	<0.01
Vanadium	NA	NA	**0.0056 J**	NA	NA	**0.0706**	**0.0702**	NA	**0.0763**	NA	**0.0995**
Zinc	NA	NA	<0.02	NA	NA	<0.02	<0.02	NA	<0.02	NA	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW11	SS18-MW11	SS18-MW12	SS18-MW12	SS18-MW13	SS18-MW13	SS18-MW13	SS18-MW14	SS18-MW14	SS18-MW15	SS18-MW15
Date Sampled	**9/28/2009**	**9/11/2012**	**9/24/2009**	**9/11/2012**	**10/2/2009**	**9/12/2012**	**9/14/2012**	**9/21/2009**	**9/10/2012**	**9/24/2009**	**9/10/2012**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	<0.025	<0.025	<0.025	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0116**	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Chloroform	**0.0024**	**0.0011**	**0.00068 J**	**0.001**	**0.0038**	**0.0021**	NA	**0.0082**	**0.0046**	**0.0251**	**0.00061 J**
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	**0.00066 J**	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	**0.0018**	**0.009**	**0.00026 J**	<0.001	NA	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene	<0.001	**0.00027 J**	<0.001	**0.0007 J**	<0.001	<0.001	NA	<0.001	<0.001	<0.001	**0.001**
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0025**	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	<0.005	<0.005	**0.003 J**	<0.005	<0.005	NA	<0.005	<0.005	**0.0015 J**	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	**0.0012**	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0012**	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.005	<0.0048	<0.0048	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.005	<0.0048	<0.0048	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Dibenzofuran	<0.005	<0.0048	<0.0048	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
Di-n-butyl phthalate	<0.005	<0.0048	<0.0048	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene	NA	<0.0048	NA	<0.0048	NA	NA	<0.0048	NA	<0.0048	NA	<0.0048
Pentachlorophenol	<0.025	<0.024	<0.024	<0.024	<0.026	NA	<0.024	<0.024	<0.024	<0.024	<0.024
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1
Diesel Range Organics (C10-C22)	**0.122 J**	**0.0999 J**	<0.25	<0.24	**0.11 J**	NA	<0.25	<0.25	<0.24	<0.25	<0.24
Oil Range Organics (>C22-C36)	<0.26	**0.101 J**	<0.25	<0.24	**0.138 J**	NA	**0.106 J**	<0.25	<0.24	<0.25	<0.24
Metals (mg/L)											
Aluminum	**0.015 J**	**0.301**	**0.0296 J**	**0.0604 J**	**0.017 J**	**1.97**	NA	**0.034 J**	**0.221**	**0.0304 J**	**0.871**
Antimony	<0.012	**0.0028 J**	<0.012	**0.0036 J**	<0.006	<0.012	NA	<0.012	**0.0024 J**	<0.006	**0.0044 J**
Arsenic	<0.02	**0.0087 J**	**0.0175 J**	**0.0201**	<0.01	**0.0179**	NA	<0.02	**0.0072 J**	**0.0116**	**0.0173**
Barium	**0.0566 J**	**0.0301 J**	**0.0197 J**	**0.017 J**	**0.0382 J**	**0.0454 J**	NA	**0.0435 J**	**0.0239 J**	**0.0179 J**	**0.0259 J**
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW11	SS18-MW11	SS18-MW12	SS18-MW12	SS18-MW13	SS18-MW13	SS18-MW13	SS18-MW14	SS18-MW14	SS18-MW15	SS18-MW15
Date Sampled	**9/28/2009**	**9/11/2012**	**9/24/2009**	**9/11/2012**	**10/2/2009**	**9/12/2012**	**9/14/2012**	**9/21/2009**	**9/10/2012**	**9/24/2009**	**9/10/2012**
Calcium	**584**	**678**	**582**	**666**	**480**	**591**	NA	**612**	**626**	**483**	**547**
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	**0.0073 J**	NA	<0.01	**0.0011 J**	<0.01	**0.0119**
Cobalt	<0.05	<0.05	**0.0019 J**	<0.05	<0.05	<0.05	NA	**0.0014 J**	<0.05	<0.05	<0.05
Copper	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0045 J**	NA	<0.025	<0.025	<0.025	<0.025
Iron	**0.0654 J**	**0.154 J**	<0.3	<0.3	**0.177 J**	**1.79**	NA	<1.2	**0.139 J**	<0.3	**1.03**
Lead	<0.01	<0.005	<0.01	<0.005	<0.005	<0.01	NA	<0.01	<0.005	<0.005	<0.005
Magnesium	**110**	**85.3**	**95.1**	**106**	**263**	**238**	NA	**115**	**145**	**274**	**366**
Manganese	**0.138**	**0.0446**	**0.527**	**0.597**	**0.476**	**0.0526**	NA	**0.198**	**0.0053 J**	**0.0342**	**0.0128 J**
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001
Nickel	**0.008 J**	<0.04	**0.0034 J**	<0.04	**0.0082 J**	**0.0032 J**	NA	**0.0105 J**	<0.04	<0.04	<0.04
Potassium	**14.3**	**5.51 J**	**8.09 J**	**5.08 J**	**14.8**	**6.99 J**	NA	**13.7**	**7.2 J**	**15.8**	**17.2**
Selenium	<0.02	**0.0051 J**	**0.0157 J**	<0.01	<0.01	<0.02	NA	**0.0179 J**	**0.0042 J**	<0.01	**0.0087 J**
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01
Sodium	**230**	**167**	**87**	**143**	**456**	**434**	NA	**155**	**123**	**114**	**1,140**
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	NA	<0.01	<0.01	<0.01	<0.01
Vanadium	**0.0267 J**	**0.0899**	**0.0704**	**0.0923**	**0.0197 J**	**0.108**	NA	**0.0457 J**	**0.0645**	**0.0639**	**0.0762**
Zinc	**0.0092 J**	<0.02	<0.02	<0.02	<0.02	**0.0152 J**	NA	<0.02	<0.02	<0.02	**0.0059 J**
Dissolved Metals (mg/L)											
Aluminum	NA	**0.0553 J**	NA	**0.0585 J**	NA	<0.2	NA	NA	**0.0557 J**	NA	**0.0642 J**
Antimony	NA	**0.0035 J**	NA	**0.0034 J**	NA	<0.012	NA	NA	**0.0042 J**	NA	**0.0038 J**
Arsenic	NA	**0.0063 J**	NA	**0.021**	NA	**0.0141**	NA	NA	**0.0061 J**	NA	**0.0178**
Barium	NA	**0.0276 J**	NA	**0.0172 J**	NA	**0.0212 J**	NA	NA	**0.0225 J**	NA	**0.012 J**
Calcium	NA	**616**	NA	**750**	NA	**559**	NA	NA	**571**	NA	**510**
Chromium	NA	<0.01	NA	<0.01	NA	<0.02	NA	NA	<0.01	NA	**0.0063 J**
Cobalt	NA	<0.05	NA	**0.0011 J**	NA	<0.05	NA	NA	<0.05	NA	<0.05
Copper	NA	<0.025	NA	<0.025	NA	<0.05	NA	NA	<0.025	NA	<0.025
Iron	NA	<0.3	NA	<0.3	NA	<0.3	NA	NA	**0.0405 J**	NA	<0.3
Lead	NA	<0.005	NA	<0.005	NA	<0.01	NA	NA	<0.005	NA	<0.005
Magnesium	NA	**77.9**	NA	**107**	NA	**208**	NA	NA	**151**	NA	**353**
Manganese	NA	**0.0345**	NA	**0.583**	NA	**0.0087 J**	NA	NA	**0.0055 J**	NA	<0.015
Nickel	NA	<0.04	NA	<0.04	NA	<0.04	NA	NA	<0.04	NA	**0.003 J**
Potassium	NA	**5.25 J**	NA	**4.99 J**	NA	**7 J**	NA	NA	**7.49 J**	NA	**16**
Selenium	NA	**0.0032 J**	NA	**0.0047 J**	NA	<0.02	NA	NA	<0.01	NA	**0.0054 J**
Sodium	NA	**141**	NA	**161**	NA	**317**	NA	NA	**112**	NA	**1,120**
Thallium	NA	<0.01	NA	<0.01	NA	<0.02	NA	NA	<0.01	NA	<0.01
Vanadium	NA	**0.0787**	NA	**0.0894**	NA	**0.0982**	NA	NA	**0.0654**	NA	**0.0689**
Zinc	NA	<0.02	NA	<0.02	NA	<0.04	NA	NA	<0.02	NA	<0.02

Notes:

A = Duplicate sample

B = Analyte found in method blank

J = Estimated value

L = Physical/chemical interferences present

mg/L = Milligrams per liter

NA = Not Analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW16	SS18-MW16-A	SS18-MW16	SS18-MW17	SS18-MW17	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	SS18-MW20
Date Sampled	**9/23/2009**	**9/23/2009**	**9/13/2012**	**9/22/2009**	**9/12/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**10/1/2009**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.25	<0.13	NA	<0.025
Benzene	<0.001	<0.001	**0.00027 J**	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Bromodichloromethane	**0.00035 J**	**0.00038 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Chloroform	**0.0031**	**0.0034**	**0.0019**	<0.001	<0.001	**0.00093 J**	<0.001	<0.01	<0.005	NA	**0.00033 J**
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Carbon disulfide	**0.0012 J**	**0.0013 J**	<0.002	<0.002	<0.002	**0.00059 J**	<0.002	<0.02	<0.01	NA	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
1,1-Dichloroethane	<0.001	<0.001	**0.0012**	<0.001	<0.001	**0.0083**	**0.0085**	**0.548**	**0.497**	NA	**0.0066**
1,1-Dichloroethylene	<0.001	<0.001	**0.002**	<0.001	<0.001	**0.0024**	**0.0028**	**0.0671**	**0.0538**	NA	**0.00099 J**
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	**0.0014 J**	NA	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002
cis-1,2-Dichloroethylene	**0.0152**	**0.0178**	**0.199**	<0.001	<0.001	**0.0624**	**0.102**	**0.0029 J**	**0.0082**	NA	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	**0.0055**	<0.001	<0.001	**0.0044**	**0.0062**	<0.01	<0.005	NA	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0003 J**	<0.01	<0.005	NA	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.025	NA	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.025	NA	**0.0023 J**
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0039 J**	**0.0053**	NA	<0.001
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.025	NA	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Tetrachloroethylene	**0.00039 J**	**0.00025 J**	**0.00083 J**	<0.001	<0.001	**0.0129**	**0.0164**	**0.0488**	**0.15**	NA	**0.0011**
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001
Trichloroethylene	**0.0024**	**0.0029**	**0.0129**	<0.001	<0.001	**0.0956**	**0.111**	**0.0134**	**0.0402**	NA	**0.00048 J**
Vinyl chloride	<0.001	<0.001	**0.00088 J**	<0.001	<0.001	<0.001	**0.00027 J**	<0.01	<0.005	NA	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005
Dibenzofuran	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005
Di-n-butyl phthalate	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	**0.001 J**
1-Methylnaphthalene	NA	NA	<0.0048	NA	<0.0049	NA	<0.0048	NA	NA	<0.0048	NA
Pentachlorophenol	<0.024	<0.024	<0.024	<0.025	<0.025	<0.024	<0.024	<0.026	NA	<0.024	<0.025
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	<0.1	<0.1	**0.141**	<0.1	<0.1	**0.0726 J**	**0.164**	**0.294**	**0.486**	NA	<0.1
Diesel Range Organics (C10-C22)	<0.25	<0.25	<0.24	<0.25	<0.24	**0.166 J**	**0.108 J**	**0.151 J**	NA	**0.198 J**	<0.25
Oil Range Organics (>C22-C36)	<0.25	<0.25	<0.24	**0.156 J**	**0.155 J**	**0.138 J**	**0.136 J**	<0.25	NA	**0.143 J**	<0.25
Metals (mg/L)											
Aluminum	**0.0275 J**	**0.0302 J**	**11.9**	**0.0297 J**	**0.0984 J**	**0.0313 J**	**0.806**	**0.0338 J**	**3.18**	NA	**0.0283 J**
Antimony	<0.006	<0.006	<0.024	<0.006	**0.0029 J**	<0.006	<0.12	<0.012	**0.0053 J**	NA	<0.012
Arsenic	**0.0173**	**0.0176**	**0.0345**	**0.0077 J**	**0.0078 J**	**0.0129**	**0.0164**	<0.02	**0.0248**	NA	<0.02
Barium	**0.0169 J**	**0.0164 J**	**0.127 J**	**0.0152 J**	**0.0113 J**	**0.0271 J**	**0.0234 J**	**0.056 J**	**0.0394 J**	NA	**0.0489 J**
Cadmium	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.1	<0.005	<0.01	NA	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW16	SS18-MW16-A	SS18-MW16	SS18-MW17	SS18-MW17	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	SS18-MW20
Date Sampled	**9/23/2009**	**9/23/2009**	**9/13/2012**	**9/22/2009**	**9/12/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**10/1/2009**
Calcium	**489**	**497**	**1,100**	**448**	**460**	**499**	**599**	**854**	**792**	NA	**638**
Chromium	<0.01	<0.01	**0.0235 J**	<0.01	<0.01	<0.01	<0.2	<0.01	**0.254**	NA	<0.01
Cobalt	**0.0017 J**	**0.001 J**	**0.0101 J**	<0.05	<0.05	**0.0027 J**	**0.0036 J**	**0.0023 J**	**0.0044 J**	NA	**0.0021 J**
Copper	<0.025	<0.025	**0.0162 J**	<0.025	<0.025	<0.025	**0.0025 J**	<0.025	**0.0175 J**	NA	**0.0055 J**
Iron	**0.586**	**0.577**	**9.7**	<0.3	**0.049 J**	**0.242 J**	**0.75**	**0.648**	**8.17**	NA	**0.104 J**
Lead	<0.005	<0.005	**0.0086 J**	<0.005	<0.005	<0.005	<0.1	<0.01	**0.0068 J**	NA	<0.01
Magnesium	**248**	**254**	**696**	**307**	**291**	**311**	**357**	**580**	**391**	NA	**597**
Manganese	**0.435**	**0.392**	**0.717**	**0.0499**	**0.0067 J**	**0.408**	**0.185**	**0.536**	**0.364**	NA	**0.0201**
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001
Nickel	**0.0043 J**	**0.0042 J**	**0.0177 J**	**0.0024 J**	<0.04	**0.0068 J**	**0.0036 J**	**0.0447**	**0.0494**	NA	**0.022 J**
Potassium	**13.4**	**13.3**	**28.2**	**48**	**23.9**	**41.3**	**27**	**53.7**	**21.6**	NA	**44.2**
Selenium	<0.02	<0.01	<0.04	<0.01	**0.0025 J**	<0.01	<0.2	**0.0132 J**	<0.02	NA	**0.0107 J**
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Sodium	**104**	**104**	**2,080**	**639**	**417**	**578**	**831**	**1,490**	**369**	NA	**1,370**
Thallium	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	**0.0719 J**	<0.01	**0.003 J**	NA	<0.01
Vanadium	**0.0365 J**	**0.0377 J**	**0.152**	**0.0641**	**0.0747**	**0.0566**	**0.0785**	**0.0322 J**	**0.173**	NA	**0.069**
Zinc	<0.02	<0.02	**0.0512 J**	<0.02	<0.02	<0.02	<0.4	**0.0123 J**	**0.0278 J**	NA	<0.02
Dissolved Metals (mg/L)											
Aluminum	NA	NA	<0.2	NA	<0.2	NA	**0.0551 J**	NA	NA	**0.0736 J**	NA
Antimony	NA	NA	<0.024	NA	<0.006	NA	<0.12	NA	NA	**0.0088 J**	NA
Arsenic	NA	NA	**0.0252**	NA	**0.0091 J**	NA	**0.0158**	NA	NA	**0.0094 J**	NA
Barium	NA	NA	**0.0219 J**	NA	**0.0111 J**	NA	**0.0152 J**	NA	NA	**0.0265 J**	NA
Calcium	NA	NA	**941**	NA	**483**	NA	**570**	NA	NA	**871**	NA
Chromium	NA	NA	<0.04	NA	<0.01	NA	<0.2	NA	NA	<0.02	NA
Cobalt	NA	NA	**0.0011 J**	NA	<0.05	NA	**0.0023 J**	NA	NA	**0.0011 J**	NA
Copper	NA	NA	<0.1	NA	<0.025	NA	**0.0015 J**	NA	NA	**0.0048 J**	NA
Iron	NA	NA	<0.3	NA	<0.3	NA	<0.3	NA	NA	**0.142 J**	NA
Lead	NA	NA	<0.02	NA	<0.005	NA	<0.1	NA	NA	**0.0047 J**	NA
Magnesium	NA	NA	**691**	NA	**292**	NA	**366**	NA	NA	**552**	NA
Manganese	NA	NA	**0.373**	NA	**0.0065 J**	NA	**0.14**	NA	NA	**0.171**	NA
Nickel	NA	NA	**0.0037 J**	NA	<0.04	NA	**0.0027 J**	NA	NA	**0.0668**	NA
Potassium	NA	NA	**25.4**	NA	**26.7**	NA	**26.3**	NA	NA	**24.9**	NA
Selenium	NA	NA	<0.04	NA	**0.0062 J**	NA	<0.2	NA	NA	<0.02	NA
Sodium	NA	NA	**2,190**	NA	**502**	NA	**842**	NA	NA	**1,720**	NA
Thallium	NA	NA	<0.04	NA	<0.01	NA	<0.2	NA	NA	<0.02	NA
Vanadium	NA	NA	**0.127**	NA	**0.0779**	NA	**0.0736**	NA	NA	**0.0732**	NA
Zinc	NA	NA	<0.08	NA	<0.02	NA	<0.4	NA	NA	<0.04	NA

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW21	SS18-MW21	SS18-MW22	SS18-MW22-A	SS18-MW22	SS18-MW22-A	SS18-MW23	SS18-MW24
Date Sampled	**9/14/2012**	**9/17/2012**	**10/1/2012**	**9/22/2009**	**9/13/2012**	**9/26/2009**	**9/25/2009**	**9/11/2012**	**9/11/2012**	**9/10/2012**	**9/10/2012**
VOCs (mg/L)											
Acetone	<0.025	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Benzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	**0.00048 J**	NA	NA	<0.001	<0.001	**0.0011**	**0.0012**	**0.00065 J**	**0.00061 J**	**0.00071 J**	<0.001
o-Chlorotoluene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	NA	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon tetrachloride	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	NA	NA	<0.001	<0.001	**0.00036 J**	**0.00039 J**	**0.0004 J**	**0.00042 J**	<0.001	<0.001
1,1-Dichloroethylene	<0.001	NA	NA	<0.001	<0.001	**0.0056**	**0.0048**	**0.0042**	**0.0045**	<0.001	<0.001
1,2-Dichloroethane	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	NA	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	NA	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0005 J**	<0.001	<0.001
Tetrachloroethylene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00054 J**	<0.001
Toluene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	NA	NA	<0.0049	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0048	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	NA	NA	<0.0049	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0048	<0.0048	<0.0048
Dibenzofuran	NA	NA	<0.0049	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0048	<0.0048	<0.0048
Di-n-butyl phthalate	NA	NA	<0.0049	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0048	<0.0048	<0.0048
1-Methylnaphthalene	NA	NA	<0.0049	NA	<0.0048	NA	NA	<0.0049	<0.0048	<0.0048	**0.0006 J**
Pentachlorophenol	NA	NA	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Diesel Range Organics (C10-C22)	NA	<0.24	NA	**0.17 J**	<0.25	<0.25	<0.25	<0.24	<0.24	**0.145 J**	**0.325**
Oil Range Organics (>C22-C36)	NA	**0.271**	NA	<0.25	<0.25	<0.25	<0.25	<0.24	<0.24	**0.115 J**	**0.21 J**
Metals (mg/L)											
Aluminum	**1.74**	NA	NA	**0.0417 J**	**0.0721 J**	**0.0204 J**	**0.0159 J**	**0.0762 J**	**0.0499 J**	**0.0966 J**	**0.164 J**
Antimony	<0.012	NA	NA	<0.006	**0.0038 J**	<0.006	<0.006	**0.004 J**	**0.003 J**	**0.0045 J**	**0.0043 J**
Arsenic	**0.0212**	NA	NA	**0.014**	**0.0164**	**0.0104**	**0.0112**	**0.0156**	**0.0119**	**0.0049 J**	**0.0052 J**
Barium	**0.0276 J**	NA	NA	**0.0252 J**	**0.0104 J**	**0.0166 J**	**0.018 J**	**0.0129 J**	**0.0116 J**	**0.0495 J**	**0.0559 J**
Cadmium	<0.01	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW21	SS18-MW21	SS18-MW22	SS18-MW22-A	SS18-MW22	SS18-MW22-A	SS18-MW23	SS18-MW24
Date Sampled	**9/14/2012**	**9/17/2012**	**10/1/2012**	**9/22/2009**	**9/13/2012**	**9/26/2009**	**9/25/2009**	**9/11/2012**	**9/11/2012**	**9/10/2012**	**9/10/2012**
Calcium	**653**	NA	NA	**477**	**492**	**481**	**481**	**540**	**505**	**585**	**543**
Chromium	**0.0083 J**	NA	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.0141**	<0.01
Cobalt	**0.001 J**	NA	NA	**0.0034 J**	**0.0021 J**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper	**0.0073 J**	NA	NA	<0.025	**0.0013 J**	<0.025	<0.025	<0.025	<0.025	**0.0028 J**	<0.025
Iron	**1.26**	NA	NA	**0.613**	<0.3	**0.0615 J**	**0.0542 J**	<0.3	<0.3	**0.0412 J**	**0.0763 J**
Lead	<0.01	NA	NA	<0.005	<0.005	**0.0025 J**	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	**769**	NA	NA	**315**	**346**	**331**	**329**	**345**	**316**	**292**	**55.3**
Manganese	**0.12**	NA	NA	**0.475**	**0.0389**	**0.19**	**0.248**	**0.0131 J**	**0.0128 J**	**0.0802**	**0.0284**
Mercury	<0.001	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	**0.0155 J**	NA	NA	**0.0273 J**	**0.0152 J**	**0.0049 J**	**0.0054 J**	<0.04	<0.04	<0.04	<0.04
Potassium	**17.1**	NA	NA	**29.5**	**14.2**	**12.3**	**12.7**	**4.99 J**	**4.59 J**	**34.6**	**7.01 J**
Selenium	**0.0068 J**	NA	NA	<0.01	<0.01	**0.0044 J**	**0.0073 J**	**0.0031 J**	**0.0031 J**	**0.0063 J**	<0.01
Silver	<0.01	NA	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	**3,260**	NA	NA	**664**	**817**	**736**	**719**	**748**	**746**	**1,020**	**79.7**
Thallium	<0.02	NA	NA	<0.01	**0.003 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	**0.216**	NA	NA	**0.0575**	**0.103**	**0.0626**	**0.0581**	**0.0919**	**0.0857**	**0.0747**	**0.0321 J**
Zinc	<0.04	NA	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dissolved Metals (mg/L)											
Aluminum	NA	**0.0523 J**	NA	NA	**0.057 J**	NA	NA	<0.2	<0.2	**0.046 J**	**0.0476 J**
Antimony	NA	**0.0087 J**	NA	NA	**0.0056 J**	NA	NA	**0.0021 J**	<0.006	**0.0041 J**	<0.006
Arsenic	NA	**0.018**	NA	NA	**0.0179**	NA	NA	**0.0149**	**0.0144**	**0.0046 J**	**0.0036 J**
Barium	NA	**0.0209 J**	NA	NA	**0.0108 J**	NA	NA	**0.0112 J**	**0.0111 J**	**0.0522 J**	**0.0489 J**
Calcium	NA	**726**	NA	NA	**520**	NA	NA	**543**	**529**	**614**	**536**
Chromium	NA	<0.02	NA	NA	<0.01	NA	NA	<0.01	<0.01	**0.0151**	<0.01
Cobalt	NA	<0.05	NA	NA	**0.0021 J**	NA	NA	<0.05	<0.05	<0.05	<0.05
Copper	NA	**0.0074 J**	NA	NA	<0.025	NA	NA	<0.025	<0.025	**0.0029 J**	<0.025
Iron	NA	<0.3	NA	NA	<0.3	NA	NA	<0.3	<0.3	<0.3	<0.3
Lead	NA	**0.0054 J**	NA	NA	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005
Magnesium	NA	**913**	NA	NA	**371**	NA	NA	**313**	**304**	**311**	**49.6**
Manganese	NA	**0.022 J**	NA	NA	**0.0394**	NA	NA	**0.0118 J**	**0.0112 J**	**0.0816**	**0.0214**
Nickel	NA	**0.0136 J**	NA	NA	**0.0158 J**	NA	NA	<0.04	<0.04	<0.04	<0.04
Potassium	NA	**20**	NA	NA	**14.4**	NA	NA	**5.34 J**	**5.14 J**	**37.2**	**6.23 J**
Selenium	NA	**0.0079 J**	NA	NA	<0.01	NA	NA	**0.0072 J**	**0.0084 J**	**0.0109**	<0.01
Sodium	NA	**3,750**	NA	NA	**880**	NA	NA	**723**	**691**	**1,100**	**80.1**
Thallium	NA	**0.0086 J**	NA	NA	<0.01	NA	NA	<0.01	<0.01	<0.01	<0.01
Vanadium	NA	**0.184**	NA	NA	**0.106**	NA	NA	**0.086**	**0.0845**	**0.0788**	**0.0279 J**
Zinc	NA	<0.04	NA	NA	<0.02	NA	NA	<0.02	<0.02	<0.02	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW25	SS18-MW26	SS18-MW27	SS18-MW28	SS18-MW30	SS18-MW30-A	S51-MW1	S51-MW1	S51-MW3	S51-MW3	S51-MW3-A
Date Sampled	**9/10/2012**	**9/11/2012**	**9/11/2012**	**9/13/2012**	**9/13/2012**	**9/13/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**9/12/2012**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.01	<0.025	<0.01	<0.025	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00021 J**	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00077 J**	<0.001	<0.001	<0.001	<0.001
Chloroform	<0.001	<0.001	<0.001	<0.001	**0.0036**	**0.0035**	<0.001	<0.001	**0.00027 J**	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00041 J**	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	NA	<0.002	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.001	**0.00083 J**	**0.00082 J**	<0.001	<0.001	**0.0025**	**0.0143**	**0.0141**
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0028**	**0.0049**	**0.0043**
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00026 J**	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	**0.00085 J**	**0.00083 J**	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00018 J**	**0.103**	**0.0999**
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0054**	**0.0049**
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	**0.00036 J**	**0.0003 J**	**0.00021 J**	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00031 J**	<0.001	<0.001	**0.00073 J**	**0.0007 J**
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00035 J**	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.006	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	**0.0012**	**0.00099 J**
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00059 J**	**0.0268**	**0.0238**
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	**0.0037**	**0.0035**	**0.0006 J**	<0.001	**0.0065**	**0.0832**	**0.0715**
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00035 J**	**0.00028 J**
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0048	<0.02	<0.0049	<0.02	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0048	**0.003 JB**	<0.0049	**0.0026 JB**	<0.0048	<0.0048
Dibenzofuran	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0048	<0.01	<0.0049	<0.01	<0.0048	<0.0048
Di-n-butyl phthalate	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0048	<0.02	<0.0049	<0.02	<0.0048	<0.0048
1-Methylnaphthalene	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.0048	NA	<0.0049	NA	<0.0048	<0.0048
Pentachlorophenol	<0.024	<0.025	<0.025	<0.024	<0.024	<0.024	<0.06	<0.025	<0.06	<0.024	<0.024
TPHs (mg/L)											
Gasoline Range Organics (C6-C10)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	NA	**0.16**	**0.151**
Diesel Range Organics (C10-C22)	**1.08**	<0.24	**0.101 J**	**0.117 J**	**0.102 J**	<0.24	NA	<0.24	NA	**0.162 J**	**0.152 J**
Oil Range Organics (>C22-C36)	**0.104 J**	**0.107 J**	**0.111 J**	**0.15 J**	**0.111 J**	**0.103 J**	NA	**0.123 J**	NA	**0.112 J**	**0.122 J**
Metals (mg/L)											
Aluminum	**0.458**	**0.431**	**0.944**	**0.304**	**0.61**	**0.162 J**	NA	**0.0399 J**	NA	**0.0261 J**	<0.2
Antimony	**0.004 J**	**0.003 J**	<0.006	**0.004 J**	<0.03	<0.03	NA	**0.0031 J**	NA	<0.012	<0.012
Arsenic	**0.0164**	**0.0355**	**0.0108**	**0.0163**	**0.0133**	**0.014**	NA	**0.0268**	NA	**0.0268**	**0.0289**
Barium	**0.053 J**	**0.0415 J**	**0.0525 J**	**0.0283 J**	**0.0657 J**	**0.0641 J**	NA	**0.0225 J**	NA	**0.0144 J**	**0.0147 J**
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.025	<0.025	NA	<0.005	NA	<0.01	<0.01

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW25	SS18-MW26	SS18-MW27	SS18-MW28	SS18-MW30	SS18-MW30-A	S51-MW1	S51-MW1	S51-MW3	S51-MW3	S51-MW3-A
Date Sampled	**9/10/2012**	**9/11/2012**	**9/11/2012**	**9/13/2012**	**9/13/2012**	**9/13/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**9/12/2012**
Calcium	**577**	**631**	**642**	**523**	**1,460**	**1,500**	NA	**604**	NA	**732**	**723**
Chromium	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	NA	<0.01	NA	<0.02	<0.02
Cobalt	**0.0942**	<0.05	**0.0028 J**	<0.05	**0.0036 J**	**0.0035 J**	NA	**0.0154 J**	NA	<0.05	<0.05
Copper	**0.006 J**	<0.025	<0.025	**0.0021 J**	<0.13	<0.13	NA	<0.025	NA	<0.05	<0.05
Iron	**0.318**	**0.294 J**	**0.718**	**0.207 J**	**0.465**	**0.128 J**	NA	**0.0629 J**	NA	**0.103 J**	**0.0696 J**
Lead	**0.0022 J**	<0.005	<0.005	**0.0013 J**	<0.025	<0.025	NA	<0.005	NA	<0.01	<0.01
Magnesium	**224**	**148**	**168**	**317**	**1,070**	**1,110**	NA	**122**	NA	**680**	**664**
Manganese	**1.35**	**0.428**	**0.633**	**0.119**	**0.932**	**0.947**	NA	**2.25**	NA	**0.23**	**0.226**
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	NA	**0.00056 J**	<0.001
Nickel	**0.148**	**0.0026 J**	**0.0088 J**	**0.0065 J**	**0.0057 J**	**0.0054 J**	NA	**0.0078 J**	NA	**0.003 J**	**0.0029 J**
Potassium	**17.1**	**15.9**	**10.9**	**17.9**	**33**	**34.6**	NA	**30.5**	NA	**32.1**	**32.5**
Selenium	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	NA	<0.01	NA	<0.02	<0.02
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	NA	**0.0013 J**	<0.01
Sodium	**99.2**	**121**	**247**	**1,150**	**3,760**	**4,150**	NA	**135**	NA	**3,120**	**3,250**
Thallium	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	NA	<0.01	NA	<0.02	<0.02
Vanadium	**0.105**	**0.0362 J**	**0.0407 J**	**0.0757**	**0.0183 J**	**0.0222 J**	NA	**0.107**	NA	**0.0995**	**0.106**
Zinc	<0.02	<0.02	<0.02	<0.02	<0.1	<0.1	NA	<0.02	NA	<0.04	<0.04
Dissolved Metals (mg/L)											
Aluminum	**0.151 J**	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	<0.2	<0.2
Antimony	**0.0033 J**	**0.002 J**	<0.006	<0.006	<0.03	<0.03	NA	<0.006	NA	<0.012	<0.012
Arsenic	**0.0187**	**0.0334**	**0.0113**	**0.0169**	**0.0136**	**0.0133**	NA	**0.0286**	NA	**0.0256**	**0.0284**
Barium	**0.0478 J**	**0.0343 J**	**0.042 J**	**0.0265 J**	**0.0589 J**	**0.0597 J**	NA	**0.0116 J**	NA	**0.0144 J**	**0.0148 J**
Calcium	**538**	**608**	**612**	**513**	**1,430**	**1,470**	NA	**596**	NA	**742**	**752**
Chromium	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	NA	<0.01	NA	<0.02	<0.02
Cobalt	**0.09**	<0.05	**0.0032 J**	<0.05	**0.0029 J**	**0.0028 J**	NA	**0.0026 J**	NA	<0.05	<0.05
Copper	**0.0047 J**	<0.025	<0.025	**0.002 J**	<0.13	<0.13	NA	<0.025	NA	<0.05	<0.05
Iron	**0.0827 J**	<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.3	NA	<0.3	<0.3
Lead	<0.005	<0.005	<0.005	<0.005	<0.025	<0.025	NA	**0.0018 J**	NA	<0.01	<0.01
Magnesium	**220**	**131**	**152**	**304**	**1,050**	**1,090**	NA	**119**	NA	**685**	**684**
Manganese	**1.26**	**0.384**	**0.58**	**0.111**	**0.849**	**0.896**	NA	**0.621**	NA	**0.16**	**0.19**
Nickel	**0.142**	**0.0029 J**	**0.009 J**	**0.0063 J**	**0.0038 J**	**0.0038 J**	NA	**0.0084 J**	NA	**0.0025 J**	**0.0032 J**
Potassium	**16.3**	**14.7**	**10.5**	**18.3**	**36.3**	**35**	NA	**31.9**	NA	**31.2**	**32.9**
Selenium	<0.01	<0.01	<0.01	**0.0024 J**	<0.05	<0.05	NA	<0.01	NA	<0.02	<0.02
Sodium	**99**	**122**	**261**	**1,160**	**4,060**	**4,180**	NA	**130**	NA	**3,050**	**2,940**
Thallium	<0.01	<0.01	**0.0021 J**	<0.01	<0.05	<0.05	NA	**0.0034 J**	NA	<0.02	<0.02
Vanadium	**0.116**	**0.0313 J**	**0.0349 J**	**0.0748**	**0.0263 J**	**0.0251 J**	NA	**0.101**	NA	**0.0981**	**0.107**
Zinc	<0.02	<0.02	<0.02	<0.02	<0.1	<0.1	NA	<0.02	NA	<0.04	<0.04

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	S51-MW4	S51-MW4	S51-MW5	S51-MW5	S51-MW7	S51-MW7A	S51-MW7
Date Sampled	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**6/4/2007**	**9/12/2012**
VOCs (mg/L)							
Acetone	<0.01	<0.025	<0.01	<0.025	<0.01	<0.01	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	**0.00066 J**	**0.0011**	**0.0023**	<0.001	**0.0034**	**0.0057**	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	NA	<0.002	NA	<0.002	NA	NA	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	**0.0023**	**0.0033**	<0.001
1,1-Dichloroethane	**0.0002 J**	**0.00044 J**	<0.001	<0.001	**0.00048 J**	**0.00052 J**	<0.001
1,1-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	**0.00059 J**	**0.00096 J**	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	**0.0012 J**	<0.002	<0.002	**0.00045 J**	**0.00071 J**	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	**0.00044 J**	**0.00048 J**	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00027 J**	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	**0.00057 J**	**0.0008 J**	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00025 J**	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	**0.00039 J**	<0.005	**0.00049 J**	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.006	<0.005	<0.006	<0.005	<0.006	<0.006	<0.005
Methyl tert butyl ether	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001
Naphthalene	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	**0.002**	**0.0038**	<0.001	**0.002**	<0.001	**0.00025 J**	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	**0.00061 J**	**0.0013**	<0.001	**0.0006 J**	**0.0029**	**0.0047**	**0.00046 J**
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)							
Butyl benzyl phthalate	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.02	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.01	<0.0049	<0.01	<0.0049	**0.0031 J**	<0.01	<0.0048
Dibenzofuran	<0.01	<0.0049	<0.01	<0.0049	<0.01	<0.01	<0.0048
Di-n-butyl phthalate	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.02	<0.0048
1-Methylnaphthalene	NA	<0.0049	NA	<0.0049	NA	NA	<0.0048
Pentachlorophenol	<0.06	**0.006 J**	<0.06	<0.025	<0.06	<0.06	<0.024
TPHs (mg/L)							
Gasoline Range Organics (C6-C10)	NA	<0.1	NA	<0.1	NA	NA	<0.1
Diesel Range Organics (C10-C22)	NA	<0.24	NA	<0.24	NA	NA	<0.25
Oil Range Organics (>C22-C36)	NA	<0.24	NA	<0.24	NA	NA	**0.184 J**
Metals (mg/L)							
Aluminum	NA	**0.171 J**	NA	**0.254**	NA	NA	**0.153 J**
Antimony	NA	**0.0036 J**	NA	**0.0029 J**	NA	NA	**0.0029 J**
Arsenic	NA	**0.0135**	NA	**0.0148**	NA	NA	**0.0169**
Barium	NA	**0.0148 J**	NA	**0.0168 J**	NA	NA	**0.0136 J**
Cadmium	NA	<0.005	NA	<0.005	NA	NA	<0.005

Table 8-2(a)
Comprehensive Groundwater Analytical Data for Chemicals With at Least One Detected Concentration
SS-18, Holloman Air Force Base, New Mexico

Sample ID	S51-MW4	S51-MW4	S51-MW5	S51-MW5	S51-MW7	S51-MW7A	S51-MW7
Date Sampled	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**6/4/2007**	**9/12/2012**
Calcium	NA	**671**	NA	**708**	NA	NA	**607**
Chromium	NA	<0.01	NA	**0.0014 J**	NA	NA	**0.0114**
Cobalt	NA	<0.05	NA	<0.05	NA	NA	<0.05
Copper	NA	<0.025	NA	<0.025	NA	NA	<0.025
Iron	NA	**0.101 J**	NA	**0.156 J**	NA	NA	**0.0748 J**
Lead	NA	<0.005	NA	<0.005	NA	NA	<0.005
Magnesium	NA	**360**	NA	**333**	NA	NA	**304**
Manganese	NA	**0.227**	NA	**0.401**	NA	NA	**0.206**
Mercury	NA	<0.001	NA	<0.001	NA	NA	<0.001
Nickel	NA	<0.04	NA	**0.0021 J**	NA	NA	**0.0079 J**
Potassium	NA	**15.9**	NA	**13.8**	NA	NA	**16.7**
Selenium	NA	<0.01	NA	<0.01	NA	NA	<0.01
Silver	NA	<0.01	NA	<0.01	NA	NA	<0.01
Sodium	NA	**1,150**	NA	**932**	NA	NA	**877**
Thallium	NA	<0.01	NA	<0.01	NA	NA	**0.0019 J**
Vanadium	NA	**0.0917**	NA	**0.0698**	NA	NA	**0.104**
Zinc	NA	<0.02	NA	<0.02	NA	NA	<0.02
Dissolved Metals (mg/L)							
Aluminum	NA	<0.2	NA	<0.2	NA	NA	<0.2
Antimony	NA	**0.0026 J**	NA	<0.006	NA	NA	<0.006
Arsenic	NA	**0.0156**	NA	**0.0189**	NA	NA	**0.0185**
Barium	NA	**0.0135 J**	NA	**0.0151 J**	NA	NA	**0.0128 J**
Calcium	NA	**683**	NA	**707**	NA	NA	**588**
Chromium	NA	<0.01	NA	<0.01	NA	NA	<0.01
Cobalt	NA	<0.05	NA	<0.05	NA	NA	<0.05
Copper	NA	<0.025	NA	<0.025	NA	NA	<0.025
Iron	NA	<0.3	NA	<0.3	NA	NA	<0.3
Lead	NA	**0.0032 J**	NA	**0.0022 J**	NA	NA	<0.005
Magnesium	NA	**409**	NA	**335**	NA	NA	**293**
Manganese	NA	**0.158**	NA	**0.362**	NA	NA	**0.131**
Nickel	NA	<0.04	NA	**0.0027 J**	NA	NA	**0.0076 J**
Potassium	NA	**18**	NA	**15.2**	NA	NA	**18.5**
Selenium	NA	**0.0039 J**	NA	<0.01	NA	NA	<0.01
Sodium	NA	**1,340**	NA	**856**	NA	NA	**847**
Thallium	NA	<0.01	NA	<0.01	NA	NA	<0.01
Vanadium	NA	**0.0865**	NA	**0.0706**	NA	NA	**0.104**
Zinc	NA	<0.02	NA	<0.02	NA	NA	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW02	SS18-MW02	SS18-MW02	SS18-MW03 (Average)	SS18-MW03	SS18-MW03	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04
Date Sampled	**6/9/2007**	**8/24/2009**	**9/13/2012**	**6/8/2007**	**8/24/2009**	**9/14/2012**	**6/8/2007**	**6/10/2007**	**7/25/2007**	**8/19/2009**	**8/20/2009**
VOCs (mg/L)											
Acetone	<0.01	<0.025	<0.025	<0.01	<0.025	<0.025	<0.01	NA	<0.01	<0.025	NA
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00082 J**	NA	**0.00025 J**	<0.001	NA
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Chloroform	**0.0051**	**0.0052**	**0.0069**	**0.000415**	**0.00041 J**	**0.00039 J**	**0.0032**	NA	**0.0047**	**0.0039**	NA
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Carbon disulfide	NA	<0.002	<0.002	NA	<0.002	<0.002	NA	NA	NA	<0.002	NA
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
1,1-Dichloroethane	**0.0082**	**0.0034**	**0.0029**	<0.001	<0.001	<0.001	**0.015**	NA	**0.022**	**0.0183**	NA
1,1-Dichloroethylene	**0.012**	**0.0105**	**0.0043**	<0.001	<0.001	<0.001	**0.018**	NA	**0.04**	**0.0566**	NA
1,2-Dichloroethane	**0.00014 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0011**	NA	**0.0012**	**0.00089 J**	NA
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	NA
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Methyl chloride	**0.00053 J**	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0014 J**	NA	**0.00033 J**	<0.002	NA
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00047 J**	NA	**0.00068 J**	**0.0011 J**	NA
Methyl ethyl ketone	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.006	NA	<0.006	<0.005	NA
Methyl tert butyl ether	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	NA	<0.005	<0.001	NA
Naphthalene	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA
1,1,1-Trichloroethane	**0.0039**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Toluene	<0.001	**0.0016**	<0.001	<0.001	<0.001	<0.001	**0.00072 J**	NA	<0.001	<0.001	NA
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA	**0.0013 J**
bis-(2-Ethylhexyl)phthalate	**0.0016 J**	<0.0063	<0.0048	<0.01	<0.0051	<0.0048	NA	NA	**0.0055 J**	NA	<0.0051
Dibenzofuran	<0.001	<0.0063	<0.0048	<0.01	<0.0051	<0.0048	NA	NA	<0.001	NA	<0.0051
Di-n-butyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA	<0.0051
1-Methylnaphthalene	NA	NA	<0.0048	NA	NA	<0.0048	NA	NA	NA	NA	NA
Pentachlorophenol	<0.06	<0.032	<0.024	<0.06	<0.026	<0.024	NA	NA	<0.06	NA	<0.026
TPHs (mg/L)											
TPHs (C10-C36)	NA	**0.301**	<0.5	NA	<0.54	<0.5	NA	NA	NA	NA	**0.806**
Metals (mg/L)											
Aluminum	<0.1	<0.2	**0.0755 J**	<0.1	<0.8	**0.151 J**	NA	<0.1	<0.1	NA	NA
Antimony	<0.01	**0.007**	<0.006	<0.01	<0.012	**0.0086 J**	NA	<0.01	<0.01	NA	NA
Arsenic	<0.015	**0.0108**	**0.0133**	**0.0175**	**0.0149 J**	**0.0296**	NA	<0.015	<0.015	NA	NA
Barium	**0.026**	**0.0151 J**	**0.0166 J**	**0.022**	**0.0195 J**	**0.0201 J**	NA	**0.07**	**0.048**	NA	NA
Cadmium	**0.00062 B**	<0.005	<0.005	**0.000815**	<0.005	<0.01	NA	**0.001 B**	**0.0016 B**	NA	NA

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW02	SS18-MW02	SS18-MW02	SS18-MW03 (Average)	SS18-MW03	SS18-MW03	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04
Date Sampled	**6/9/2007**	**8/24/2009**	**9/13/2012**	**6/8/2007**	**8/24/2009**	**9/14/2012**	**6/8/2007**	**6/10/2007**	**7/25/2007**	**8/19/2009**	**8/20/2009**
Calcium	**490 J**	**433**	**532**	**625**	**670**	**734**	NA	**610 J**	**590 J**	NA	NA
Chromium	<0.01	<0.01	**0.0022 J**	<0.01	<0.01	**0.022**	NA	<0.01	<0.01	NA	NA
Cobalt	**0.0028 B**	<0.05	<0.05	**0.0013**	<0.05	**0.0006 J**	NA	**0.0046 B**	**0.005 B**	NA	NA
Copper	**0.0073 B**	<0.025	<0.025	**0.0065**	**0.0145 J**	**0.0101 J**	NA	**0.017**	**0.011 B**	NA	NA
Iron	<0.1	**0.0316 J**	**0.0716 J**	**0.072**	**0.188 J**	**0.652**	NA	<0.1	**0.068 B**	NA	NA
Lead	<0.009	<0.005	**0.0012 J**	<0.009	<0.02	<0.01	NA	<0.009	**0.0058 B**	NA	NA
Magnesium	**250**	**281**	**243**	**950**	**1,220**	**1,040**	NA	**420**	**290**	NA	NA
Manganese	**0.65**	<0.015	**0.0015 J**	**0.0945**	**0.0386**	**0.0287 J**	NA	**0.87**	**0.45**	NA	NA
Mercury	<0.0002	<0.001	<0.001	<0.0002	<0.001	<0.001	NA	<0.0002	<0.0002	NA	NA
Nickel	**0.014 B**	**0.0023 J**	<0.04	<0.04	**0.0359 J**	**0.0071 J**	NA	**0.023 B**	**0.021 B**	NA	NA
Potassium	**13 L**	**19.3**	**12.1**	**24.5**	**76.7**	**35.6**	NA	**24 L**	**22**	NA	NA
Selenium	<0.015	**0.0081 J**	<0.01	**0.00725**	**0.0244**	**0.012 J**	NA	<0.015	**0.0062 B**	NA	NA
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	NA	NA
Sodium	**420**	**344**	**271**	**4,200**	**4,830**	**4,490**	NA	**1,500**	**1,100**	NA	NA
Thallium	<0.015	**0.0055 J**	<0.01	<0.015	**0.0038 J**	<0.02	NA	<0.015	<0.015	NA	NA
Vanadium	**0.012**	**0.0627**	**0.0822**	**0.07**	**0.0775**	**0.107**	NA	**0.0053 B**	**0.037**	NA	NA
Zinc	**0.038**	<0.02	<0.02	**0.01545**	<0.02	<0.04	NA	**0.045**	**0.059 J**	NA	NA

Notes:

A = Duplicate sample

B = Analyte found in method blank

J = Estimated value

L = Physical/chemical interferences present

mg/L = Milligrams per liter

NA = Not Analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW05	SS18-MW05	SS18-MW06	SS18-MW06 (Average)	SS18-MW06	SS18-MW07	SS18-MW07
Date Sampled	**8/21/2009**	**9/14/2012**	**9/17/2012**	**10/18/2007**	**8/19/2009**	**9/12/2012**	**10/19/2007**	**8/18/2009**	**9/12/2012**	**10/19/2007**	**8/17/2009**
VOCs (mg/L)											
Acetone	NA	<0.025	NA	<0.01	<0.025	<0.025	**0.0025 J**	<0.025	<0.025	<0.01	<0.025
Benzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0035**	**0.0107**
tert-Butylbenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00023 J**	**0.0011**
Chlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	NA	**0.004**	NA	**0.002**	<0.001	**0.00054 J**	**0.014**	**0.0149**	**0.00069 J**	**0.0048**	**0.0017**
o-Chlorotoluene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	NA	<0.002	NA	NA	<0.002	<0.002	NA	<0.002	<0.002	NA	**0.0013 J**
Carbon tetrachloride	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	NA	**0.0252**	NA	**0.02**	**0.0113**	**0.17**	<0.001	<0.001	<0.001	**0.0041**	**0.0023**
1,1-Dichloroethylene	NA	**0.0359**	NA	**0.016**	**0.0064**	**0.0544**	<0.001	<0.001	<0.001	**0.013**	**0.008**
1,2-Dichloroethane	NA	**0.00043 J**	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	NA	<0.001	NA	**0.0013**	<0.001	<0.001	**0.00067 J**	<0.001	<0.001	**0.0012**	<0.001
Methyl chloride	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	NA	<0.005	NA	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.006	<0.005
Methyl tert butyl ether	NA	<0.001	NA	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001
Naphthalene	NA	<0.005	NA	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	**0.00057 J**	**0.0021 J**
1,1,1-Trichloroethane	NA	**0.00071 J**	NA	**0.011**	**0.0054**	**0.0569**	<0.001	<0.001	<0.001	**0.0012**	<0.001
1,2,3-Trichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	NA	**0.00032 J**	NA	<0.001	<0.001	<0.001	<0.001	**0.00023**	<0.001	<0.001	<0.001
Toluene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	NA	<0.001	NA	<0.001	<0.001	**0.00026 J**	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
bis-(2-Ethylhexyl)phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
Dibenzofuran	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	**0.0011 J**
Di-n-butyl phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
1-Methylnaphthalene	NA	NA	<0.0048	NA	NA	<0.005	NA	NA	<0.0048	NA	NA
Pentachlorophenol	NA	NA	<0.024	NA	<0.026	<0.025	NA	<0.0275	<0.024	NA	<0.024
TPHs (mg/L)											
TPHs (C10-C36)	NA	NA	**0.411**	NA	<0.58	**0.256**	NA	<0.52	<0.52	NA	**0.521**
Metals (mg/L)											
Aluminum	**0.107 J**	**0.588**	NA	NA	**0.0132 J**	**0.0415 J**	NA	**0.01665**	<0.2	NA	**0.0146 J**
Antimony	<0.012	**0.0026 J**	NA	NA	<0.012	<0.006	NA	<0.012	<0.006	NA	<0.012
Arsenic	**0.0155 J**	**0.0266**	NA	NA	**0.0094 J**	**0.01**	NA	**0.01845**	**0.0188**	NA	**0.009 J**
Barium	**0.0239 J**	**0.0191 J**	NA	NA	**0.0197 J**	**0.0201 J**	NA	**0.01515**	**0.0157 J**	NA	**0.0199 J**
Cadmium	<0.005	<0.01	NA	NA	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW05	SS18-MW05	SS18-MW06	SS18-MW06 (Average)	SS18-MW06	SS18-MW07	SS18-MW07
Date Sampled	**8/21/2009**	**9/14/2012**	**9/17/2012**	**10/18/2007**	**8/19/2009**	**9/12/2012**	**10/19/2007**	**8/18/2009**	**9/12/2012**	**10/19/2007**	**8/17/2009**
Calcium	**660**	**572**	NA	NA	**486**	**630**	NA	**527**	**599**	NA	**486**
Chromium	<0.01	**0.257**	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	NA	<0.01
Cobalt	<0.05	<0.05	NA	NA	<0.05	<0.05	NA	<0.05	<0.05	NA	<0.05
Copper	**0.0124 J**	**0.177**	NA	NA	<0.025	<0.025	NA	<0.025	<0.025	NA	<0.025
Iron	**0.15 J**	**1.5**	NA	NA	**0.0574 J**	<0.3	NA	**0.09585**	<0.3	NA	**0.119 J**
Lead	<0.01	<0.01	NA	NA	<0.005	<0.005	NA	<0.0075	**0.0021 J**	NA	<0.005
Magnesium	**610**	**408**	NA	NA	**81.2**	**86.7**	NA	**117**	**113**	NA	**111**
Manganese	**0.0362**	**0.0149 J**	NA	NA	**0.0084 J**	**0.0018 J**	NA	<0.015	<0.015	NA	**0.0798**
Mercury	<0.001	<0.001	NA	NA	<0.001	<0.001	NA	<0.001	<0.001	NA	<0.001
Nickel	**0.029 J**	**0.0082 J**	NA	NA	<0.04	<0.04	NA	<0.04	<0.04	NA	**0.0024 J**
Potassium	**51.8**	**15**	NA	NA	**11.3**	**7.82 J**	NA	**15.95**	**15.8**	NA	**12.2**
Selenium	**0.0205**	<0.02	NA	NA	<0.02	<0.01	NA	**0.0135**	<0.01	NA	<0.02
Silver	<0.01	<0.01	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	NA	<0.01
Sodium	**2,370**	**1,300**	NA	NA	**51.5**	**76.1**	NA	**83.7**	**213**	NA	**153**
Thallium	**0.0055 J**	<0.02	NA	NA	<0.01	**0.0019 J**	NA	<0.01	<0.01	NA	<0.01
Vanadium	**0.109**	**0.185**	NA	NA	**0.0827**	**0.093**	NA	**0.1065**	**0.114**	NA	**0.026 J**
Zinc	**0.048**	<0.04	NA	NA	<0.02	<0.02	NA	<0.02	<0.02	NA	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW07	SS18-MW08	SS18-MW08	SS18-MW08 (Average)	SS18-MW09	SS18-MW09	SS18-MW10	SS18-MW10	SS18-MW11	SS18-MW11	SS18-MW12
Date Sampled	**9/10/2012**	**10/19/2007**	**8/18/2009**	**9/10/2012**	**9/24/2009**	**9/11/2012**	**9/23/2009**	**9/11/2012**	**9/28/2009**	**9/11/2012**	**9/24/2009**
VOCs (mg/L)											
Acetone	<0.025	<0.01	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	**0.0003 J**	**0.000235**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	**0.0066**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	**0.0014**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	<0.001	**0.0032 J**	**0.0032**	**0.00315**	<0.001	<0.001	<0.001	<0.001	**0.0024**	**0.0011**	**0.00068 J**
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00066 J**	<0.002	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	**0.00029 J**	**0.02**	**0.0375**	**0.02385**	**0.00051 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0018**
1,1-Dichloroethylene	<0.001	**0.12**	**0.193**	**0.09655**	**0.0059**	**0.0012**	<0.001	<0.001	<0.001	**0.00027 J**	<0.001
1,2-Dichloroethane	<0.001	<0.001	**0.00095 J**	**0.00083**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	**0.00023 J**	**0.00043**	<0.001	<0.001	**0.00029 J**	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	**0.0013 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	**0.0016 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.005	**0.00042 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	**0.0011 J**	**0.0287**	**0.02225**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	**0.0059**	**0.0051**	<0.001	<0.001	**0.0012**	<0.001	<0.001	<0.001	<0.001
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
Dibenzofuran	**0.0014 J**	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
Di-n-butyl phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
1-Methylnaphthalene	<0.0048	NA	NA	<0.0048	NA	<0.0048	NA	<0.0048	NA	<0.0048	NA
Pentachlorophenol	<0.024	NA	<0.025	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.024	<0.024
TPHs (mg/L)											
TPHs (C10-C36)	**1.228**	NA	<0.48	<0.48	**0.251**	<0.48	<0.5	<0.48	**0.252**	**0.2009**	<0.5
Metals (mg/L)											
Aluminum	**0.161 J**	NA	**0.0367 J**	**0.0588**	**0.147 J**	**0.175 J**	**0.0354 J**	**1.59**	**0.015 J**	**0.301**	**0.0296 J**
Antimony	<0.006	NA	<0.012	**0.00725**	<0.006	**0.004 J**	<0.006	**0.0044 J**	<0.012	**0.0028 J**	<0.012
Arsenic	**0.0363**	NA	**0.0188 J**	**0.0189**	**0.0155**	**0.0107**	**0.0102**	**0.0166**	<0.02	**0.0087 J**	**0.0175 J**
Barium	**0.0245 J**	NA	**0.0142 J**	**0.0155**	**0.0361 J**	**0.0274 J**	**0.031 J**	**0.0373 J**	**0.0566 J**	**0.0301 J**	**0.0197 J**
Cadmium	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW07	SS18-MW08	SS18-MW08	SS18-MW08 (Average)	SS18-MW09	SS18-MW09	SS18-MW10	SS18-MW10	SS18-MW11	SS18-MW11	SS18-MW12
Date Sampled	**9/10/2012**	**10/19/2007**	**8/18/2009**	**9/10/2012**	**9/24/2009**	**9/11/2012**	**9/23/2009**	**9/11/2012**	**9/28/2009**	**9/11/2012**	**9/24/2009**
Calcium	**656**	NA	**592**	**792**	**469**	**516**	**487**	**512**	**584**	**678**	**582**
Chromium	**0.0017 J**	NA	<0.01	<0.01	<0.01	**0.0029 J**	<0.01	**0.0038 J**	<0.01	<0.01	<0.01
Cobalt	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.0019 J**
Copper	**0.0486**	NA	<0.025	<0.025	<0.025	**0.0021 J**	<0.025	**0.0034 J**	<0.025	<0.025	<0.025
Iron	**0.27 J**	NA	<0.6	<0.3	<0.3	**0.141 J**	<0.3	**1.18**	**0.0654 J**	**0.154 J**	<0.3
Lead	<0.005	NA	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Magnesium	**107**	NA	**897**	**1,040**	**356**	**304**	**331**	**296**	**110**	**85.3**	**95.1**
Manganese	**0.0924**	NA	<0.015	<0.015	**0.0564**	**0.0787**	**0.24**	**0.0988**	**0.138**	**0.0446**	**0.527**
Mercury	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	**0.0199 J**	NA	<0.04	<0.04	**0.0033 J**	**0.0055 J**	**0.0067 J**	<0.04	**0.008 J**	<0.04	**0.0034 J**
Potassium	**7.49 J**	NA	**51.6**	**20.35**	**24.1**	**11.4**	**19.2**	**6.47 J**	**14.3**	**5.51 J**	**8.09 J**
Selenium	<0.01	NA	**0.0297**	**0.0055**	<0.01	**0.0081 J**	**0.0063 J**	**0.0057 J**	<0.02	**0.0051 J**	**0.0157 J**
Silver	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	**179**	NA	**3,930**	**4,690**	**944**	**758**	**567**	**355**	**230**	**167**	**87**
Thallium	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	**0.0083 J**	NA	**0.0657**	**0.07165**	**0.0721**	**0.0761**	**0.0639**	**0.104**	**0.0267 J**	**0.0899**	**0.0704**
Zinc	**1.79**	NA	<0.02	<0.02	<0.02	**0.0112 J**	<0.02	**0.0164 J**	**0.0092 J**	<0.02	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW12	SS18-MW13	SS18-MW13	SS18-MW13	SS18-MW14	SS18-MW14	SS18-MW15	SS18-MW15	SS18-MW16 (Average)	SS18-MW16	SS18-MW17
Date Sampled	**9/11/2012**	**10/2/2009**	**9/12/2012**	**9/14/2012**	**9/21/2009**	**9/10/2012**	**9/24/2009**	**9/10/2012**	**9/23/2009**	**9/13/2012**	**9/22/2009**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Benzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00027 J**	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0116**	<0.001	**0.000365**	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	**0.001**	**0.0038**	**0.0021**	NA	**0.0082**	**0.0046**	**0.0251**	**0.00061 J**	**0.00325**	**0.0019**	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	**0.00125**	<0.002	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	**0.009**	**0.00026 J**	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0012**	<0.001
1,1-Dichloroethylene	**0.0007 J**	<0.001	<0.001	NA	<0.001	<0.001	<0.001	**0.001**	<0.001	**0.002**	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0025**	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	**0.0165**	**0.199**	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0055**	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Dichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	**0.003 J**	<0.005	<0.005	NA	<0.005	<0.005	**0.0015 J**	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	**0.0012**	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0012**	<0.001	**0.00032**	**0.00083 J**	<0.001
Toluene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	**0.00265**	**0.0129**	<0.001
Vinyl chloride	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00088 J**	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
Dibenzofuran	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
Di-n-butyl phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
1-Methylnaphthalene	<0.0048	NA	NA	<0.0048	NA	<0.0048	NA	<0.0048	NA	<0.0048	NA
Pentachlorophenol	<0.024	<0.026	NA	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025
TPHs (mg/L)											
TPHs (C10-C36)	<0.48	**0.248**	NA	**0.231**	<0.5	<0.48	<0.5	<0.48	<0.5	<0.48	**0.281**
Metals (mg/L)											
Aluminum	**0.0604 J**	**0.017 J**	**1.97**	NA	**0.034 J**	**0.221**	**0.0304 J**	**0.871**	**0.02885**	**11.9**	**0.0297 J**
Antimony	**0.0036 J**	<0.006	<0.012	NA	<0.012	**0.0024 J**	<0.006	**0.0044 J**	<0.006	<0.024	<0.006
Arsenic	**0.0201**	<0.01	**0.0179**	NA	<0.02	**0.0072 J**	**0.0116**	**0.0173**	**0.01745**	**0.0345**	**0.0077 J**
Barium	**0.017 J**	**0.0382 J**	**0.0454 J**	NA	**0.0435 J**	**0.0239 J**	**0.0179 J**	**0.0259 J**	**0.01665**	**0.127 J**	**0.0152 J**
Cadmium	<0.005	<0.005	<0.01	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.005

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW12	SS18-MW13	SS18-MW13	SS18-MW13	SS18-MW14	SS18-MW14	SS18-MW15	SS18-MW15	SS18-MW16 (Average)	SS18-MW16	SS18-MW17
Date Sampled	**9/11/2012**	**10/2/2009**	**9/12/2012**	**9/14/2012**	**9/21/2009**	**9/10/2012**	**9/24/2009**	**9/10/2012**	**9/23/2009**	**9/13/2012**	**9/22/2009**
Calcium	**666**	**480**	**591**	NA	**612**	**626**	**483**	**547**	**493**	**1,100**	**448**
Chromium	<0.01	<0.01	**0.0073 J**	NA	<0.01	**0.0011 J**	<0.01	**0.0119**	<0.01	**0.0235 J**	<0.01
Cobalt	<0.05	<0.05	<0.05	NA	**0.0014 J**	<0.05	<0.05	<0.05	**0.00135**	**0.0101 J**	<0.05
Copper	<0.025	<0.025	**0.0045 J**	NA	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0162 J**	<0.025
Iron	<0.3	**0.177 J**	**1.79**	NA	<1.2	**0.139 J**	<0.3	**1.03**	**0.5815**	**9.7**	<0.3
Lead	<0.005	<0.005	<0.01	NA	<0.01	<0.005	<0.005	<0.005	<0.005	**0.0086 J**	<0.005
Magnesium	**106**	**263**	**238**	NA	**115**	**145**	**274**	**366**	**251**	**696**	**307**
Manganese	**0.597**	**0.476**	**0.0526**	NA	**0.198**	**0.0053 J**	**0.0342**	**0.0128 J**	**0.4135**	**0.717**	**0.0499**
Mercury	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	<0.04	**0.0082 J**	**0.0032 J**	NA	**0.0105 J**	<0.04	<0.04	<0.04	**0.00425**	**0.0177 J**	**0.0024 J**
Potassium	**5.08 J**	**14.8**	**6.99 J**	NA	**13.7**	**7.2 J**	**15.8**	**17.2**	**13.35**	**28.2**	**48**
Selenium	<0.01	<0.01	<0.02	NA	**0.0179 J**	**0.0042 J**	<0.01	**0.0087 J**	<0.015	<0.04	<0.01
Silver	<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium	**143**	**456**	**434**	NA	**155**	**123**	**114**	**1,140**	**104**	**2,080**	**639**
Thallium	<0.01	<0.01	<0.02	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.01
Vanadium	**0.0923**	**0.0197 J**	**0.108**	NA	**0.0457 J**	**0.0645**	**0.0639**	**0.0762**	**0.0371**	**0.152**	**0.0641**
Zinc	<0.02	<0.02	**0.0152 J**	NA	<0.02	<0.02	<0.02	**0.0059 J**	<0.02	**0.0512 J**	<0.02

Notes:

A = Duplicate sample

B = Analyte found in method blank

J = Estimated value

L = Physical/chemical interferences present

mg/L = Milligrams per liter

NA = Not Analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW17	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW21
Date Sampled	**9/12/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**10/1/2009**	**9/14/2012**	**9/17/2012**	**10/1/2012**	**9/22/2009**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	<0.25	<0.13	NA	<0.025	<0.025	NA	NA	<0.025
Benzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Chloroform	<0.001	**0.00093 J**	<0.001	<0.01	<0.005	NA	**0.00033 J**	**0.00048 J**	NA	NA	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Carbon disulfide	<0.002	**0.00059 J**	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	NA	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
1,1-Dichloroethane	<0.001	**0.0083**	**0.0085**	**0.548**	**0.497**	NA	**0.0066**	<0.001	NA	NA	<0.001
1,1-Dichloroethylene	<0.001	**0.0024**	**0.0028**	**0.0671**	**0.0538**	NA	**0.00099 J**	<0.001	NA	NA	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.01	**0.0014 J**	NA	<0.001	<0.001	NA	NA	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	NA	<0.002
cis-1,2-Dichloroethylene	<0.001	**0.0624**	**0.102**	**0.0029 J**	**0.0082**	NA	<0.001	<0.001	NA	NA	<0.001
trans-1,2-Dichloroethylene	<0.001	**0.0044**	**0.0062**	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
p-Dichlorobenzene	<0.001	<0.001	**0.0003 J**	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	NA	<0.002
Methylene chloride	<0.005	<0.005	<0.005	<0.05	<0.025	NA	<0.005	<0.005	NA	NA	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.05	<0.025	NA	**0.0023 J**	<0.005	NA	NA	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	**0.0039 J**	**0.0053**	NA	<0.001	<0.001	NA	NA	<0.001
Naphthalene	<0.005	<0.005	<0.005	<0.05	<0.025	NA	<0.005	<0.005	NA	NA	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Tetrachloroethylene	<0.001	**0.0129**	**0.0164**	**0.0488**	**0.15**	NA	**0.0011**	<0.001	NA	NA	<0.001
Toluene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
Trichloroethylene	<0.001	**0.0956**	**0.111**	**0.0134**	**0.0402**	NA	**0.00048 J**	<0.001	NA	NA	<0.001
Vinyl chloride	<0.001	<0.001	**0.00027 J**	<0.01	<0.005	NA	<0.001	<0.001	NA	NA	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	NA	<0.0049	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	NA	<0.0049	<0.0048
Dibenzofuran	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	NA	<0.0049	<0.0048
Di-n-butyl phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	**0.001 J**	NA	NA	<0.0049	<0.0048
1-Methylnaphthalene	<0.0049	NA	<0.0048	NA	NA	<0.0048	NA	NA	NA	<0.0049	NA
Pentachlorophenol	<0.025	<0.024	<0.024	<0.026	NA	<0.024	<0.025	NA	NA	<0.024	<0.024
TPHs (mg/L)											
TPHs (C10-C36)	**0.275**	**0.304**	**0.244**	**0.276**	NA	**0.341**	<0.5	NA	**0.391**	NA	**0.295**
Metals (mg/L)											
Aluminum	**0.0984 J**	**0.0313 J**	**0.806**	**0.0338 J**	**3.18**	NA	**0.0283 J**	**1.74**	NA	NA	**0.0417 J**
Antimony	**0.0029 J**	<0.006	<0.12	<0.012	**0.0053 J**	NA	<0.012	<0.012	NA	NA	<0.006
Arsenic	**0.0078 J**	**0.0129**	**0.0164**	<0.02	**0.0248**	NA	<0.02	**0.0212**	NA	NA	**0.014**
Barium	**0.0113 J**	**0.0271 J**	**0.0234 J**	**0.056 J**	**0.0394 J**	NA	**0.0489 J**	**0.0276 J**	NA	NA	**0.0252 J**
Cadmium	<0.005	<0.005	<0.1	<0.005	<0.01	NA	<0.005	<0.01	NA	NA	<0.005

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW17	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW21
Date Sampled	**9/12/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**10/1/2009**	**9/14/2012**	**9/17/2012**	**10/1/2012**	**9/22/2009**
Calcium	**460**	**499**	**599**	**854**	**792**	NA	**638**	**653**	NA	NA	**477**
Chromium	<0.01	<0.01	<0.2	<0.01	**0.254**	NA	<0.01	**0.0083 J**	NA	NA	<0.01
Cobalt	<0.05	**0.0027 J**	**0.0036 J**	**0.0023 J**	**0.0044 J**	NA	**0.0021 J**	**0.001 J**	NA	NA	**0.0034 J**
Copper	<0.025	<0.025	**0.0025 J**	<0.025	**0.0175 J**	NA	**0.0055 J**	**0.0073 J**	NA	NA	<0.025
Iron	**0.049 J**	**0.242 J**	**0.75**	**0.648**	**8.17**	NA	**0.104 J**	**1.26**	NA	NA	**0.613**
Lead	<0.005	<0.005	<0.1	<0.01	**0.0068 J**	NA	<0.01	<0.01	NA	NA	<0.005
Magnesium	**291**	**311**	**357**	**580**	**391**	NA	**597**	**769**	NA	NA	**315**
Manganese	**0.0067 J**	**0.408**	**0.185**	**0.536**	**0.364**	NA	**0.0201**	**0.12**	NA	NA	**0.475**
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA	NA	<0.001
Nickel	<0.04	**0.0068 J**	**0.0036 J**	**0.0447**	**0.0494**	NA	**0.022 J**	**0.0155 J**	NA	NA	**0.0273 J**
Potassium	**23.9**	**41.3**	**27**	**53.7**	**21.6**	NA	**44.2**	**17.1**	NA	NA	**29.5**
Selenium	**0.0025 J**	<0.01	<0.2	**0.0132 J**	<0.02	NA	**0.0107 J**	**0.0068 J**	NA	NA	<0.01
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01	NA	NA	<0.01
Sodium	**417**	**578**	**831**	**1,490**	**369**	NA	**1,370**	**3,260**	NA	NA	**664**
Thallium	<0.01	<0.01	**0.0719 J**	<0.01	**0.003 J**	NA	<0.01	<0.02	NA	NA	<0.01
Vanadium	**0.0747**	**0.0566**	**0.0785**	**0.0322 J**	**0.173**	NA	**0.069**	**0.216**	NA	NA	**0.0575**
Zinc	<0.02	<0.02	<0.4	**0.0123 J**	**0.0278 J**	NA	<0.02	<0.04	NA	NA	<0.02

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW21	SS18-MW22 (Average)	SS18-MW22 (Average)	SS18-MW23	SS18-MW24	SS18-MW25	SS18-MW26	SS18-MW27	SS18-MW28	SS18-MW30 (Average)	S51-MW1
Date Sampled	**9/13/2012**	**9/26/2009**	**9/11/2012**	**9/10/2012**	**9/10/2012**	**9/10/2012**	**9/11/2012**	**9/11/2012**	**9/13/2012**	**9/13/2012**	**6/4/2007**
VOCs (mg/L)											
Acetone	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.01
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00077 J**
Chloroform	<0.001	**0.00115**	**0.00063**	**0.00071 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00355**	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00041 J**
Carbon disulfide	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	<0.001	**0.000375**	**0.00041**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000825**	<0.001
1,1-Dichloroethylene	<0.001	**0.0052**	**0.00435**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00038**	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00084**	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00033**	**0.00021 J**
p-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00031 J**
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	**0.0005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	**0.00054 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0036**	**0.0006 J**
Vinyl chloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)											
Butyl benzyl phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.02
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	**0.003 JB**
Dibenzofuran	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.01
Di-n-butyl phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.02
1-Methylnaphthalene	<0.0048	NA	<0.0048	<0.0048	**0.0006 J**	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	NA
Pentachlorophenol	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.025	<0.024	<0.024	<0.06
TPHs (mg/L)											
TPHs (C10-C36)	<0.5	<0.5	<0.48	**0.26**	**0.535**	**1.184**	**0.227**	**0.212**	**0.267**	**0.218**	NA
Metals (mg/L)											
Aluminum	**0.0721 J**	**0.01815**	**0.06305**	**0.0966 J**	**0.164 J**	**0.458**	**0.431**	**0.944**	**0.304**	**0.386**	NA
Antimony	**0.0038 J**	<0.006	**0.0035**	**0.0045 J**	**0.0043 J**	**0.004 J**	**0.003 J**	<0.006	**0.004 J**	<0.03	NA
Arsenic	**0.0164**	**0.0108**	**0.01375**	**0.0049 J**	**0.0052 J**	**0.0164**	**0.0355**	**0.0108**	**0.0163**	**0.01365**	NA
Barium	**0.0104 J**	**0.0173**	**0.01225**	**0.0495 J**	**0.0559 J**	**0.053 J**	**0.0415 J**	**0.0525 J**	**0.0283 J**	**0.0649**	NA
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	NA

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW21	SS18-MW22 (Average)	SS18-MW22 (Average)	SS18-MW23	SS18-MW24	SS18-MW25	SS18-MW26	SS18-MW27	SS18-MW28	SS18-MW30 (Average)	S51-MW1
Date Sampled	**9/13/2012**	**9/26/2009**	**9/11/2012**	**9/10/2012**	**9/10/2012**	**9/10/2012**	**9/11/2012**	**9/11/2012**	**9/13/2012**	**9/13/2012**	**6/4/2007**
Calcium	**492**	**481**	**522.5**	**585**	**543**	**577**	**631**	**642**	**523**	**1,480**	NA
Chromium	<0.01	<0.01	<0.01	**0.0141**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	NA
Cobalt	**0.0021 J**	<0.05	<0.05	<0.05	<0.05	**0.0942**	<0.05	**0.0028 J**	<0.05	**0.00355**	NA
Copper	**0.0013 J**	<0.025	<0.025	**0.0028 J**	<0.025	**0.006 J**	<0.025	<0.025	**0.0021 J**	<0.13	NA
Iron	<0.3	**0.05785**	<0.3	**0.0412 J**	**0.0763 J**	**0.318**	**0.294 J**	**0.718**	**0.207 J**	**0.2965**	NA
Lead	<0.005	**0.0025**	<0.005	<0.005	<0.005	**0.0022 J**	<0.005	<0.005	**0.0013 J**	<0.025	NA
Magnesium	**346**	**330**	**330.5**	**292**	**55.3**	**224**	**148**	**168**	**317**	**1090**	NA
Manganese	**0.0389**	**0.219**	**0.01295**	**0.0802**	**0.0284**	**1.35**	**0.428**	**0.633**	**0.119**	**0.9395**	NA
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA
Nickel	**0.0152 J**	**0.00515**	<0.04	<0.04	<0.04	**0.148**	**0.0026 J**	**0.0088 J**	**0.0065 J**	**0.00555**	NA
Potassium	**14.2**	**12.5**	**4.79**	**34.6**	**7.01 J**	**17.1**	**15.9**	**10.9**	**17.9**	**33.8**	NA
Selenium	<0.01	**0.00585**	**0.0031**	**0.0063 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	NA
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA
Sodium	**817**	**727.5**	**747**	**1,020**	**79.7**	**99.2**	**121**	**247**	**1,150**	**3,955**	NA
Thallium	**0.003 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	NA
Vanadium	**0.103**	**0.06035**	**0.0888**	**0.0747**	**0.0321 J**	**0.105**	**0.0362 J**	**0.0407 J**	**0.0757**	**0.02025**	NA
Zinc	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	NA

Notes:
A = Duplicate sample
B = Analyte found in method blank
J = Estimated value
L = Physical/chemical interferences present
mg/L = Milligrams per liter
NA = Not Analyzed
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Value in bold = Detected concentration

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	S51-MW1	S51-MW3	S51-MW3 (Average)	S51-MW4	S51-MW4	S51-MW5	S51-MW5	S51-MW7 (Average)	S51-MW7
Date Sampled	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**
VOCs (mg/L)									
Acetone	<0.025	<0.01	<0.025	<0.01	<0.025	<0.01	<0.025	<0.01	<0.025
Benzene	<0.001	<0.001	**0.000355**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	<0.001	**0.00027 J**	<0.001	**0.00066 J**	**0.0011**	**0.0023**	<0.001	**0.00455**	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002
Carbon tetrachloride	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0028**	<0.001
1,1-Dichloroethane	<0.001	**0.0025**	**0.0142**	**0.0002 J**	**0.00044 J**	<0.001	<0.001	**0.0005**	<0.001
1,1-Dichloroethylene	<0.001	**0.0028**	**0.0046**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000775**	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	**0.0012 J**	<0.002	<0.002	**0.00058**	<0.002
cis-1,2-Dichloroethylene	<0.001	**0.00018 J**	**0.10145**	<0.001	<0.001	<0.001	<0.001	**0.00046**	<0.001
trans-1,2-Dichloroethylene	<0.001	<0.001	**0.00515**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000385**	<0.001
o-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000685**	<0.001
p-Dichlorobenzene	<0.001	<0.001	**0.000715**	<0.001	<0.001	<0.001	<0.001	**0.000375**	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methylene chloride	<0.005	**0.00035 J**	<0.005	**0.00039 J**	<0.005	**0.00049 J**	<0.005	<0.005	<0.005
Methyl ethyl ketone	<0.005	<0.006	<0.005	<0.006	<0.005	<0.006	<0.005	<0.006	<0.005
Methyl tert butyl ether	<0.001	<0.005	**0.001095**	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001
Naphthalene	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	**0.00059 J**	**0.0253**	**0.002**	**0.0038**	<0.001	**0.002**	**0.000375**	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	**0.0065**	**0.07735**	**0.00061 J**	**0.0013**	<0.001	**0.0006 J**	**0.0038**	**0.00046 J**
Vinyl chloride	<0.001	<0.001	**0.000315**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SVOCs (mg/L)									
Butyl benzyl phthalate	<0.0049	<0.02	<0.0048	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0049	**0.0026 JB**	<0.0048	<0.01	<0.0049	<0.01	<0.0049	**0.00405**	<0.0048
Dibenzofuran	<0.0049	<0.01	<0.0048	<0.01	<0.0049	<0.01	<0.0049	<0.01	<0.0048
Di-n-butyl phthalate	<0.0049	<0.02	<0.0048	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.0048
1-Methylnaphthalene	<0.0049	NA	<0.0048	NA	<0.0049	NA	<0.0049	NA	<0.0048
Pentachlorophenol	<0.025	<0.06	<0.024	<0.06	**0.006 J**	<0.06	<0.025	<0.06	<0.024
TPHs (mg/L)									
TPHs (C10-C36)	**0.243**	NA	**0.274**	NA	<0.48	NA	<0.48	NA	**0.309**
Metals (mg/L)									
Aluminum	**0.0399 J**	NA	**0.06305**	NA	**0.171 J**	NA	**0.254**	NA	**0.153 J**
Antimony	**0.0031 J**	NA	<0.012	NA	**0.0036 J**	NA	**0.0029 J**	NA	**0.0029 J**
Arsenic	**0.0268**	NA	**0.02785**	NA	**0.0135**	NA	**0.0148**	NA	**0.0169**
Barium	**0.0225 J**	NA	**0.01455**	NA	**0.0148 J**	NA	**0.0168 J**	NA	**0.0136 J**
Cadmium	<0.005	NA	<0.01	NA	<0.005	NA	<0.005	NA	<0.005

Table 8-2(b)
Groundwater Analytical Data Used for Risk Assessment
SS-18, Holloman Air Force Base, New Mexico

Sample ID	S51-MW1	S51-MW3	S51-MW3 (Average)	S51-MW4	S51-MW4	S51-MW5	S51-MW5	S51-MW7 (Average)	S51-MW7
Date Sampled	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**
Calcium	**604**	NA	**727.5**	NA	**671**	NA	**708**	NA	**607**
Chromium	<0.01	NA	<0.02	NA	<0.01	NA	**0.0014 J**	NA	**0.0114**
Cobalt	**0.0154 J**	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05
Copper	<0.025	NA	<0.05	NA	<0.025	NA	<0.025	NA	<0.025
Iron	**0.0629 J**	NA	**0.0863**	NA	**0.101 J**	NA	**0.156 J**	NA	**0.0748 J**
Lead	<0.005	NA	<0.01	NA	<0.005	NA	<0.005	NA	<0.005
Magnesium	**122**	NA	**672**	NA	**360**	NA	**333**	NA	**304**
Manganese	**2.25**	NA	**0.228**	NA	**0.227**	NA	**0.401**	NA	**0.206**
Mercury	<0.001	NA	**0.00053**	NA	<0.001	NA	<0.001	NA	<0.001
Nickel	**0.0078 J**	NA	**0.00295**	NA	<0.04	NA	**0.0021 J**	NA	**0.0079 J**
Potassium	**30.5**	NA	**32.3**	NA	**15.9**	NA	**13.8**	NA	**16.7**
Selenium	<0.01	NA	<0.02	NA	<0.01	NA	<0.01	NA	<0.01
Silver	<0.01	NA	**0.00315**	NA	<0.01	NA	<0.01	NA	<0.01
Sodium	**135**	NA	**3,185**	NA	**1,150**	NA	**932**	NA	**877**
Thallium	<0.01	NA	<0.02	NA	<0.01	NA	<0.01	NA	**0.0019 J**
Vanadium	**0.107**	NA	**0.10275**	NA	**0.0917**	NA	**0.0698**	NA	**0.104**
Zinc	<0.02	NA	<0.04	NA	<0.02	NA	<0.02	NA	<0.02

Notes:

A = Duplicate sample

B = Analyte found in method blank

J = Estimated value

L = Physical/chemical interferences present

mg/L = Milligrams per liter

NA = Not Analyzed

SVOC = Semi-volatile organic compound

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

Value in bold = Detected concentration

Table 8-2(c)
Summary of Groundwater Data
SS-18, Holloman Air Force Base, New Mexico

Chemical	Number of Samples	Number of Detects	Detected Concentration		Reporting Limit	
			Maximum	Minimum	Maximum	Minimum
			(mg/L)			
VOCs						
Acetone	67	1	0.0025	0.0025	0.25	0.01
Benzene	67	4	0.00082	0.00025	0.01	0.001
Bromodichloromethane	67	4	0.0116	0.000235	0.01	0.001
sec-Butylbenzene	67	3	0.0107	0.0035	0.01	0.001
tert-Butylbenzene	67	3	0.0014	0.00023	0.01	0.001
Chlorobenzene	67	1	0.00077	0.00077	0.01	0.001
Chloroform	67	44	0.0251	0.00027	0.01	0.001
o-Chlorotoluene	67	1	0.00041	0.00041	0.01	0.001
Carbon disulfide	54	4	0.0013	0.00059	0.02	0.002
Carbon tetrachloride	67	1	0.0028	0.0028	0.01	0.001
1,1-Dichloroethane	67	34	0.548	0.0002	0.001	0.001
1,1-Dichloroethylene	67	30	0.193	0.00027	0.001	0.001
1,2-Dichloroethane	67	10	0.0014	0.00014	0.01	0.001
Dibromochloromethane	67	1	0.0025	0.0025	0.01	0.001
Dichlorodifluoromethane	67	3	0.0012	0.00058	0.02	0.002
cis-1,2-Dichloroethylene	67	12	0.199	0.00018	0.001	0.001
trans-1,2-Dichloroethylene	67	4	0.0062	0.0044	0.01	0.001
m-Dichlorobenzene	67	1	0.000385	0.000385	0.01	0.001
o-Dichlorobenzene	67	3	0.000685	0.00021	0.01	0.001
p-Dichlorobenzene	67	4	0.000715	0.0003	0.01	0.001
p-Isopropyltoluene	67	4	0.0013	0.00067	0.01	0.001
Methyl chloride	67	3	0.0014	0.00033	0.02	0.002
Methylene chloride	67	9	0.003	0.00035	0.05	0.005
Methyl ethyl ketone	67	1	0.0023	0.0023	0.05	0.005
Methyl tert butyl ether	67	4	0.0053	0.00042	0.005	0.001
Naphthalene	67	2	0.0021	0.00057	0.05	0.001
1,1,1-Trichloroethane	67	7	0.0569	0.00071	0.01	0.001
1,2,3-Trichlorobenzene	67	1	0.0005	0.0005	0.01	0.001
Tetrachloroethylene	67	20	0.15	0.00023	0.001	0.001
Toluene	67	2	0.0016	0.00072	0.01	0.001
Trichloroethylene	67	20	0.111	0.00026	0.001	0.001
Vinyl chloride	67	3	0.00088	0.00027	0.01	0.001
SVOCs						
Butyl benzyl phthalate	62	1	0.0013	0.0013	0.02	0.0048
bis-(2-Ethylhexyl)phthalate	62	5	0.0055	0.0016	0.01	0.0048
Dibenzofuran	62	2	0.0014	0.0011	0.01	0.001
Di-n-butyl phthalate	62	1	0.001	0.001	0.02	0.0048
1-Methylnaphthalene	33	1	0.0006	0.0006	0.005	0.0048
Pentachlorophenol	62	1	0.006	0.006	0.06	0.024
TPHs						
TPHs (C10-C36)	54	29	1.228	0.2009	0.58	0.48
Metals (Total)						
Aluminum	58	51	11.9	0.0132	0.8	0.1
Antimony	58	23	0.0086	0.0024	0.12	0.006
Arsenic	58	50	0.0363	0.0049	0.02	0.01
Barium	58	58	0.127	0.0104	N/A	N/A
Cadmium	58	4	0.0016	0.00062	0.1	0.005
Calcium	58	58	1,480	433	N/A	N/A
Chromium	58	15	0.257	0.0011	0.2	0.01
Cobalt	58	21	0.0942	0.0006	0.05	0.05
Copper	58	21	0.177	0.0013	0.13	0.025

Table 8-2(c)
Summary of Groundwater Data
SS-18, Holloman Air Force Base, New Mexico

Chemical	Number of Samples	Number of Detects	Detected Concentration		Reporting Limit	
			Maximum	Minimum	Maximum	Minimum
			(mg/L)			
Iron	58	43	9.7	0.0316	1.2	0.1
Lead	58	8	0.0086	0.0012	0.1	0.005
Magnesium	58	58	1220	55.3	N/A	N/A
Manganese	58	53	2.25	0.0015	0.015	0.015
Mercury	58	1	0.00053	0.00053	0.001	0.0002
Nickel	58	39	0.148	0.0021	0.04	0.04
Potassium	58	58	76.7	4.79	N/A	N/A
Selenium	58	24	0.0297	0.0025	0.2	0.01
Silver	58	1	0.00315	0.00315	0.01	0.01
Sodium	58	58	4,830	51.5	N/A	N/A
Thallium	58	8	0.0719	0.0019	0.05	0.01
Vanadium	58	58	0.216	0.0053	N/A	N/A
Zinc	58	14	1.79	0.0059	0.4	0.02

Notes:
mg/L = Milligrams per liter
N/A = Not applicable
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound

Table 8-2(d)
Comparison of Maximum Detected Concentrations in Groundwater with Screening Levels
SS-18, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration (mg/L)	Screening Level		Exceed/Not Exceed	COPC
		(mg/L)	Source		
VOCs					
Acetone	0.0025	NV		N/A	**Yes**
Benzene	0.00082	0.005	2	Not Exceed	No
Bromodichloromethane	0.0116	NV		N/A	**Yes**
sec-Butylbenzene	0.0107	NV		N/A	**Yes**
tert-Butylbenzene	0.0014	NV		N/A	**Yes**
Chlorobenzene	0.00077	0.1	2	Not Exceed	No
Chloroform	0.0251	0.1	1	Not Exceed	No
o-Chlorotoluene	0.00041	NV		N/A	**Yes**
Carbon disulfide	0.0013	NV		N/A	**Yes**
Carbon tetrachloride	0.0028	0.005	2	Not Exceed	No
1,1-Dichloroethane	0.548	0.025	1	Exceed	**Yes**
1,1-Dichloroethylene	0.193	0.005	1	Exceed	**Yes**
1,2-Dichloroethane	0.0014	0.005	2	Not Exceed	No
Dibromochloromethane	0.0025	NV		N/A	**Yes**
Dichlorodifluoromethane	0.0012	NV		N/A	**Yes**
cis-1,2-Dichloroethylene	0.199	0.07	2	Exceed	**Yes**
trans-1,2-Dichloroethylene	0.0062	0.1	2	Not Exceed	No
m-Dichlorobenzene	0.000385	NV		N/A	**Yes**
o-Dichlorobenzene	0.000685	0.6	2	Not Exceed	No
p-Dichlorobenzene	0.000715	0.075	2	Not Exceed	No
p-Isopropyltoluene	0.0013	NV		N/A	**Yes**
Methyl chloride	0.0014	NV		N/A	**Yes**
Methylene chloride	0.003	0.005	2	Not Exceed	No
Methyl ethyl ketone	0.0023	NV		N/A	**Yes**
Methyl tert butyl ether	0.0053	NV		N/A	**Yes**
Naphthalene	0.0021	0.03	1	Not Exceed	No
1,1,1-Trichloroethane	0.0569	0.06	1	Not Exceed	No
1,2,3-Trichlorobenzene	0.0005	NV		N/A	**Yes**
Tetrachloroethylene	0.15	0.005	2	Exceed	**Yes**
Toluene	0.0016	0.75	1	Not Exceed	No
Trichloroethylene	0.111	0.005	2	Exceed	**Yes**
Vinyl chloride	0.00088	0.001	1	Not Exceed	No
SVOCs					
Butyl benzyl phthalate	0.0013	NV		N/A	**Yes**
bis-(2-Ethylhexyl)phthalate	0.0055	NV		N/A	**Yes**
Dibenzofuran	0.0014	NV		N/A	**Yes**
Di-n-butyl phthalate	0.001	NV		N/A	**Yes**
1-Methylnaphthalene	0.0006	0.03	1	Not Exceed	No
Pentachlorophenol	0.006	0.001	2	Exceed	**Yes**
TPHs					
TPHs (C10-C36)	1.228	50	3	Not Exceed	No
Total Metals					
Aluminum	11.9	0.05	2	Exceed	**Yes**
Antimony	0.0086	0.006	2	Exceed	**Yes**
Arsenic	0.0363	0.01	2	Exceed	**Yes**
Barium	0.127	1	1	Not Exceed	No
Cadmium	0.0016	0.005	2	Not Exceed	No
Calcium	1,480	1,137	4	Exceed	**Yes**
Chromium	0.257	0.05	1	Exceed	**Yes**
Cobalt	0.0942	0.05	1	Exceed	**Yes**
Copper	0.177	1	1	Not Exceed	No
Iron	9.7	0.3	2	Exceed	**Yes**
Lead	0.0086	0.015	2	Not Exceed	No
Magnesium	1,220	3,693	4	Not Exceed	No

Table 8-2(d)
Comparison of Maximum Detected Concentrations in Groundwater with Screening Levels
SS-18, Holloman Air Force Base, New Mexico

Chemical	Maximum Detected Concentration (mg/L)	Screening Level		Exceed/Not Exceed	COPC
		(mg/L)	Source		
Manganese	2.25	0.05	2	Exceed	**Yes**
Mercury	0.00053	0.002	1	Not Exceed	No
Nickel	0.148	0.2	1	Not Exceed	No
Potassium	76.7	212	4	Not Exceed	No
Selenium	0.0297	0.05	1	Not Exceed	No
Silver	0.00315	0.05	1	Not Exceed	No
Sodium	4,830	20,990	4	Not Exceed	No
Thallium	0.0719	0.002	2	Exceed	**Yes**
Vanadium	0.216	0.09	4	Exceed	**Yes**
Zinc	1.79	5	2	Not Exceed	No

Notes:
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NV = No value
SVOC = Semi-volatile organic compound
TPH = Total petroleum hydrocarbon
VOC = Volatile organic compound
Sources:
1 = NMWQCC Groundwater Standards for Contaminants (NMAC 20.6.2.3103)
2 = USEPA National Priority Drinking Water Regulation MCLs (USEPA, 2009)
3 = Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2012b)
4 = NMED Approved HAFB Background Levels (NMED, 2011)

Table 8-3
Chemicals of Potential Concern
SS-18, Holloman Air Force Base, New Mexico

Chemicals	Groundwater
Acetone	X
Bromodichloromethane	X
sec-Butylbenzene	X
tert-Butylbenzene	X
o-Chlorotoluene	X
Carbon disulfide	X
1,1-Dichloroethane	X
1,1-Dichloroethylene	X
Dibromochloromethane	X
Dichlorodifluoromethane	X
cis-1,2-Dichloroethylene	X
m-Dichlorobenzene	X
p-Isopropyltoluene	X
Methyl chloride	X
Methyl ethyl ketone	X
Methyl tert butyl ether	X
1,2,3-Trichlorobenzene	X
Tetrachloroethylene	X
Trichloroethylene	X
Butyl benzyl phthalate	X
bis-(2-Ethylhexyl)phthalate	X
Dibenzofuran	X
Di-n-butyl phthalate	X
Pentachlorophenol	X
Aluminum	X
Antimony	X
Arsenic	X
Calcium	X
Chromium	X
Cobalt	X
Iron	X
Manganese	X
Thallium	X
Vanadium	X
Total No. of COPCs	**34**

Notes:
COPC = Chemical of potential concern
X = COPC based on maximum detected concentration greater than screening level or chemical without screening level

Table 8-4(a)
Exposure Model for Current Commercial/Industrial Worker
SS-18, Holloman Air Force Base, New Mexico

No.	Exposure Pathway	C/NC	Justification
1	Dermal contact with surficial soil	NC	No chemical of potential concern in soil has been identified. Therefore, this exposure pathway is not complete.
2	Ingestion of surficial soil	NC	
3	Outdoor inhalation of vapors or particulates from surficial soil	NC	
4	Outdoor inhalation of vapors from subsurface soil	NC	
5	Indoor inhalation of vapors from subsurface soil	NC	
6	Outdoor inhalation of vapors from groundwater	C	Vapors from groundwater may migrate upwards through the vadose zone and into the ambient air through cracks in the pavement. However, this pathway is generally not the “risk driver” due to considerable mixing and dilution in ambient air when the indoor inhalation pathway is evaluated. Therefore, this pathway will not be evaluated quantitatively.
7	**Indoor inhalation of vapors from groundwater**	**C**	**Groundwater has been impacted with volatile compounds and there are buildings near the area where groundwater has been impacted. Therefore, this exposure pathway is complete.**
8	Ingestion of groundwater	NC	The area receives water from Lake Bonito. No water supply wells will be installed on or near the Base because of poor groundwater quality. Therefore, this exposure pathway is not complete.
9	Dermal contact with groundwater	NC	

Notes:

C: Complete

NC: Not complete

Pathways shown in bold will be quantitatively evaluated.

Surficial soil is assumed to be soil located 0 to 2 feet below ground surface (ft bgs).

Subsurface soil is assumed to be soil between 2 ft bgs and the groundwater table.

Table 8-4(b)
Exposure Model for Future Resident
SS-18, Holloman Air Force Base, New Mexico

No.	Exposure Pathway	C/NC	Justification
1	Dermal contact with surficial soil	NC	No chemical of potential concern in soil has been identified. Therefore, this exposure pathway is not complete.
2	Ingestion of surficial soil	NC	
3	Outdoor inhalation of vapors or particulates from surficial soil	NC	
4	Outdoor inhalation of vapors from subsurface soil	NC	
5	Indoor inhalation of vapors from subsurface soil	NC	
6	Outdoor inhalation of vapors from groundwater	C	Vapors from groundwater may migrate upwards through the vadose zone and into the ambient air through cracks in the pavement. However, this pathway is generally not the "risk driver" due to considerable mixing and dilution in ambient air when the indoor inhalation pathway is evaluated. Therefore, this pathway will not be evaluated quantitatively.
7	**Indoor inhalation of vapors from groundwater**	**C**	**Groundwater has been impacted with volatile compounds and a residence may be built on or near the area where groundwater has been impacted. Therefore, this pathway is complete.**
8	Ingestion of groundwater	NC	The area receives water from Lake Bonito. No water supply wells will be installed on or near the Base because of poor groundwater quality water. Therefore, this exposure pathway is not complete.
9	Dermal contact with groundwater	NC	

Notes:

C: Complete

NC: Not complete

Pathways shown in bold will be quantitatively evaluated.

Surficial soil is assumed to be soil located 0 to 2 feet below ground surface (ft bgs).

Subsurface soil is assumed to be soil between 2 ft bgs and the groundwater table.

Table 8-4(c)
Exposure Model for Future Construction Worker
SWMU 8, Holloman Air Force Base, New Mexico

No.	Exposure Pathway	C/NC	Justification
1	Dermal contact with soil to depth of construction	NC	No chemical of potential concern in soil has been identified. Therefore, this exposure pathway is not complete.
2	Ingestion of soil to depth of construction	NC	
3	Outdoor inhalation of vapors or particulates from soil to depth of construction	NC	
4	Indoor inhalation of vapors from soil	NC	
5	Indoor inhalation of vapors from groundwater	NC	Typically construction would not be expected to occur indoors over an extended period of time. Therefore, this pathway is not complete.
6	**Dermal contact with groundwater**	**C**	**Depth to groundwater is approximately 5.6 ft bgs which is above the anticipated depth of construction (10 ft bgs). Therefore, this pathway is complete.**
7	**Outdoor inhalation of vapors from groundwater**	**C**	**Depth to groundwater is approximately 5.6 ft bgs which is above the anticipated depth of construction (10 ft bgs) and groundwater has been impacted with volatile compounds. Therefore, this pathway is complete.**

Notes:
C: Complete
NC: Not complete
Pathways shown in bold will be quantitatively evaluated.
Soil to depth of construction is assumed to be soil 0 to 10 feet below ground surface (ft bgs).

Table 8-5(a)
Representative Concentrations of Groundwater for Current Commercial/Industrial Worker and Future Resident
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW16 (Average)	SS18-MW16	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	S51-MW3	S51-MW3 (Average)	Representative Concentration (mg/L)
Date Sampled	**9/23/2009**	**9/13/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**6/4/2007**	**9/12/2012**	
Chemical Name										
Acetone	<0.025	<0.025	<0.025	<0.025	<0.25	<0.13	NA	<0.01	<0.025	0.0322
Bromodichloromethane	**0.000365**	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
Carbon disulfide	**0.00125**	<0.002	**0.00059 J**	<0.002	<0.02	<0.01	NA	NA	<0.002	0.0028
1,1-Dichloroethane	<0.001	**0.0012**	**0.0083**	**0.0085**	**0.548**	**0.497**	NA	**0.0025**	**0.0142**	0.1350
1,1-Dichloroethylene	<0.001	**0.002**	**0.0024**	**0.0028**	**0.0671**	**0.0538**	NA	**0.0028**	**0.0046**	0.0170
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	0.0026
cis-1,2-Dichloroethylene	**0.0165**	**0.199**	**0.0624**	**0.102**	**0.0029 J**	**0.0082**	NA	**0.00018 J**	**0.10145**	0.0616
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	0.0026
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.05	<0.025	NA	<0.006	<0.005	0.0066
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	**0.0039 J**	**0.0053**	NA	<0.005	**0.001095**	0.0018
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	0.0013
Tetrachloroethylene	**0.00032**	**0.00083 J**	**0.0129**	**0.0164**	**0.0488**	**0.15**	NA	**0.00059 J**	**0.0253**	0.0319
Trichloroethylene	**0.00265**	**0.0129**	**0.0956**	**0.111**	**0.0134**	**0.0402**	NA	**0.0065**	**0.07735**	0.0450
Dibenzofuran	<0.0048	<0.0048	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.01	<0.0048	0.0027

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW02	SS18-MW02	SS18-MW02	SS18-MW03 (Average)	SS18-MW03	SS18-MW03	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW04
Date Sampled	**6/9/2007**	**8/24/2009**	**9/13/2012**	**6/8/2007**	**8/24/2009**	**9/14/2012**	**6/8/2007**	**6/10/2007**	**7/25/2007**	**8/19/2009**	**8/20/2009**
Acetone	<0.01	<0.025	<0.025	<0.01	<0.025	<0.025	<0.01	NA	<0.01	<0.025	NA
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Carbon disulfide	NA	<0.002	<0.002	NA	<0.002	<0.002	NA	NA	NA	<0.002	NA
1,1-Dichloroethane	**0.0082**	**0.0034**	**0.0029**	<0.001	<0.001	<0.001	**0.015**	NA	**0.022**	**0.0183**	NA
1,1-Dichloroethylene	**0.012**	**0.0105**	**0.0043**	<0.001	<0.001	<0.001	**0.018**	NA	**0.04**	**0.0566**	NA
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002	NA
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Methyl chloride	**0.00053 J**	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0014 J**	NA	**0.00033 J**	<0.002	NA
Methyl ethyl ketone	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.006	NA	<0.006	<0.005	NA
Methyl tert butyl ether	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	NA	<0.005	<0.001	NA
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Tetrachloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	NA
Butyl benzyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA	**0.0013 J**
bis-(2-Ethylhexyl)phthalate	**0.0016 J**	<0.0063	<0.0048	<0.01	<0.0051	<0.0048	NA	NA	**0.0055 J**	NA	<0.0051
Dibenzofuran	<0.001	<0.0063	<0.0048	<0.01	<0.0051	<0.0048	NA	NA	<0.001	NA	<0.0051
Di-n-butyl phthalate	<0.02	<0.0063	<0.0048	<0.02	<0.0051	<0.0048	NA	NA	<0.02	NA	<0.0051
Pentachlorophenol	<0.06	<0.032	<0.024	<0.06	<0.026	<0.024	NA	NA	<0.06	NA	<0.026
Aluminum	<0.1	<0.2	**0.0755 J**	<0.1	<0.8	**0.151 J**	NA	<0.1	<0.1	NA	NA
Antimony	<0.01	**0.007**	<0.006	<0.01	<0.012	**0.0086 J**	NA	<0.01	<0.01	NA	NA
Arsenic	<0.015	**0.0108**	**0.0133**	**0.0175**	**0.0149 J**	**0.0296**	NA	<0.015	<0.015	NA	NA
Calcium	**490 J**	**433**	**532**	**625**	**670**	**734**	NA	**610 J**	**590 J**	NA	NA
Chromium	<0.01	<0.01	**0.0022 J**	<0.01	<0.01	**0.022**	NA	<0.01	<0.01	NA	NA
Cobalt	**0.0028 B**	<0.05	<0.05	**0.0013**	<0.05	**0.0006 J**	NA	**0.0046 B**	**0.005 B**	NA	NA
Iron	<0.1	**0.0316 J**	**0.0716 J**	**0.072**	**0.188 J**	**0.652**	NA	<0.1	**0.068 B**	NA	NA
Manganese	**0.65**	<0.015	**0.0015 J**	**0.0945**	**0.0386**	**0.0287 J**	NA	**0.87**	**0.45**	NA	NA
Thallium	<0.015	**0.0055 J**	<0.01	<0.015	**0.0038 J**	<0.02	NA	<0.015	<0.015	NA	NA
Vanadium	**0.012**	**0.0627**	**0.0822**	**0.07**	**0.0775**	**0.107**	NA	**0.0053 B**	**0.037**	NA	NA

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW05	SS18-MW05	SS18-MW06	SS18-MW06 (Average)	SS18-MW06	SS18-MW07	SS18-MW07
Date Sampled	**8/21/2009**	**9/14/2012**	**9/17/2012**	**10/18/2007**	**8/19/2009**	**9/12/2012**	**10/19/2007**	**8/18/2009**	**9/12/2012**	**10/19/2007**	**8/17/2009**
Acetone	NA	<0.025	NA	<0.01	<0.025	<0.025	**0.0025 J**	<0.025	<0.025	<0.01	<0.025
Bromodichloromethane	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0035**	**0.0107**
tert-Butylbenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00023 J**	**0.0011**
o-Chlorotoluene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	NA	<0.002	NA	NA	<0.002	<0.002	NA	<0.002	<0.002	NA	**0.0013 J**
1,1-Dichloroethane	NA	**0.0252**	NA	**0.02**	**0.0113**	**0.17**	<0.001	<0.001	<0.001	**0.0041**	**0.0023**
1,1-Dichloroethylene	NA	**0.0359**	NA	**0.016**	**0.0064**	**0.0544**	<0.001	<0.001	<0.001	**0.013**	**0.008**
Dibromochloromethane	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	NA	<0.001	NA	**0.0013**	<0.001	<0.001	**0.00067 J**	<0.001	<0.001	**0.0012**	<0.001
Methyl chloride	NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl ethyl ketone	NA	<0.005	NA	<0.006	<0.005	<0.005	<0.006	<0.005	<0.005	<0.006	<0.005
Methyl tert butyl ether	NA	<0.001	NA	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001
1,2,3-Trichlorobenzene	NA	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	NA	**0.00032 J**	NA	<0.001	<0.001	<0.001	<0.001	**0.00023**	<0.001	<0.001	<0.001
Trichloroethylene	NA	<0.001	NA	<0.001	<0.001	**0.00026 J**	<0.001	<0.001	<0.001	<0.001	<0.001
Butyl benzyl phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
bis-(2-Ethylhexyl)phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
Dibenzofuran	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	**0.0011 J**
Di-n-butyl phthalate	NA	NA	<0.0048	NA	<0.0051	<0.005	NA	<0.0055	<0.0048	NA	<0.0048
Pentachlorophenol	NA	NA	<0.024	NA	<0.026	<0.025	NA	<0.0275	<0.024	NA	<0.024
Aluminum	**0.107 J**	**0.588**	NA	NA	**0.0132 J**	**0.0415 J**	NA	**0.01665**	<0.2	NA	**0.0146 J**
Antimony	<0.012	**0.0026 J**	NA	NA	<0.012	<0.006	NA	<0.012	<0.006	NA	<0.012
Arsenic	**0.0155 J**	**0.0266**	NA	NA	**0.0094 J**	**0.01**	NA	**0.01845**	**0.0188**	NA	**0.009 J**
Calcium	**660**	**572**	NA	NA	**486**	**630**	NA	**527**	**599**	NA	**486**
Chromium	<0.01	**0.257**	NA	NA	<0.01	<0.01	NA	<0.01	<0.01	NA	<0.01
Cobalt	<0.05	<0.05	NA	NA	<0.05	<0.05	NA	<0.05	<0.05	NA	<0.05
Iron	**0.15 J**	**1.5**	NA	NA	**0.0574 J**	<0.3	NA	**0.09585**	<0.3	NA	**0.119 J**
Manganese	**0.0362**	**0.0149 J**	NA	NA	**0.0084 J**	**0.0018 J**	NA	<0.015	<0.015	NA	**0.0798**
Thallium	**0.0055 J**	<0.02	NA	NA	<0.01	**0.0019 J**	NA	<0.01	<0.01	NA	<0.01
Vanadium	**0.109**	**0.185**	NA	NA	**0.0827**	**0.093**	NA	**0.1065**	**0.114**	NA	**0.026 J**

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW07	SS18-MW08	SS18-MW08	SS18-MW08 (Average)	SS18-MW09	SS18-MW09	SS18-MW10	SS18-MW10	SS18-MW11	SS18-MW11	SS18-MW12
Date Sampled	**9/10/2012**	**10/19/2007**	**8/18/2009**	**9/10/2012**	**9/24/2009**	**9/11/2012**	**9/23/2009**	**9/11/2012**	**9/28/2009**	**9/11/2012**	**9/24/2009**
Acetone	<0.025	<0.01	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Bromodichloromethane	<0.001	<0.001	**0.0003 J**	**0.000235**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	**0.0066**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	**0.0014**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00066 J**	<0.002	<0.002
1,1-Dichloroethane	**0.00029 J**	**0.02**	**0.0375**	**0.02385**	**0.00051 J**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0018**
1,1-Dichloroethylene	<0.001	**0.12**	**0.193**	**0.09655**	**0.0059**	**0.0012**	<0.001	<0.001	<0.001	**0.00027 J**	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	**0.00023 J**	**0.00043**	<0.001	<0.001	**0.00029 J**	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	**0.0013 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl ethyl ketone	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.005	**0.00042 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	**0.0011 J**	**0.0287**	**0.02225**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	**0.0059**	**0.0051**	<0.001	<0.001	**0.0012**	<0.001	<0.001	<0.001	<0.001
Butyl benzyl phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
Dibenzofuran	**0.0014 J**	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
Di-n-butyl phthalate	<0.0048	NA	<0.005	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.005	<0.0048	<0.0048
Pentachlorophenol	<0.024	NA	<0.025	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.024	<0.024
Aluminum	**0.161 J**	NA	**0.0367 J**	**0.0588**	**0.147 J**	**0.175 J**	**0.0354 J**	**1.59**	**0.015 J**	**0.301**	**0.0296 J**
Antimony	<0.006	NA	<0.012	**0.00725**	<0.006	**0.004 J**	<0.006	**0.0044 J**	<0.012	**0.0028 J**	<0.012
Arsenic	**0.0363**	NA	**0.0188 J**	**0.0189**	**0.0155**	**0.0107**	**0.0102**	**0.0166**	<0.02	**0.0087 J**	**0.0175 J**
Calcium	**656**	NA	**592**	**792**	**469**	**516**	**487**	**512**	**584**	**678**	**582**
Chromium	**0.0017 J**	NA	<0.01	<0.01	<0.01	**0.0029 J**	<0.01	**0.0038 J**	<0.01	<0.01	<0.01
Cobalt	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.0019 J**
Iron	**0.27 J**	NA	<0.6	<0.3	<0.3	**0.141 J**	<0.3	**1.18**	**0.0654 J**	**0.154 J**	<0.3
Manganese	**0.0924**	NA	<0.015	<0.015	**0.0564**	**0.0787**	**0.24**	**0.0988**	**0.138**	**0.0446**	**0.527**
Thallium	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vanadium	**0.0083 J**	NA	**0.0657**	**0.07165**	**0.0721**	**0.0761**	**0.0639**	**0.104**	**0.0267 J**	**0.0899**	**0.0704**

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW12	SS18-MW13	SS18-MW13	SS18-MW13	SS18-MW14	SS18-MW14	SS18-MW15	SS18-MW15	SS18-MW16 (Average)	SS18-MW16	SS18-MW17
Date Sampled	**9/11/2012**	**10/2/2009**	**9/12/2012**	**9/14/2012**	**9/21/2009**	**9/10/2012**	**9/24/2009**	**9/10/2012**	**9/23/2009**	**9/13/2012**	**9/22/2009**
Acetone	<0.025	<0.025	<0.025	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Bromodichloromethane	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0116**	<0.001	**0.000365**	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon disulfide	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	**0.00125**	<0.002	<0.002
1,1-Dichloroethane	**0.009**	**0.00026 J**	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0012**	<0.001
1,1-Dichloroethylene	**0.0007 J**	<0.001	<0.001	NA	<0.001	<0.001	<0.001	**0.001**	<0.001	**0.002**	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0025**	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	**0.0165**	**0.199**	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl ethyl ketone	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	**0.0012**	<0.001	**0.00032**	**0.00083 J**	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	**0.00265**	**0.0129**	<0.001
Butyl benzyl phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
Dibenzofuran	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
Di-n-butyl phthalate	<0.0048	<0.0052	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049
Pentachlorophenol	<0.024	<0.026	NA	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025
Aluminum	**0.0604 J**	**0.017 J**	**1.97**	NA	**0.034 J**	**0.221**	**0.0304 J**	**0.871**	**0.02885**	**11.9**	**0.0297 J**
Antimony	**0.0036 J**	<0.006	<0.012	NA	<0.012	**0.0024 J**	<0.006	**0.0044 J**	<0.006	<0.024	<0.006
Arsenic	**0.0201**	<0.01	**0.0179**	NA	<0.02	**0.0072 J**	**0.0116**	**0.0173**	**0.01745**	**0.0345**	**0.0077 J**
Calcium	**666**	**480**	**591**	NA	**612**	**626**	**483**	**547**	**493**	**1100**	**448**
Chromium	<0.01	<0.01	**0.0073 J**	NA	<0.01	**0.0011 J**	<0.01	**0.0119**	<0.01	**0.0235 J**	<0.01
Cobalt	<0.05	<0.05	<0.05	NA	**0.0014 J**	<0.05	<0.05	<0.05	**0.00135**	**0.0101 J**	<0.05
Iron	<0.3	**0.177 J**	**1.79**	NA	<1.2	**0.139 J**	<0.3	**1.03**	**0.5815**	**9.7**	<0.3
Manganese	**0.597**	**0.476**	**0.0526**	NA	**0.198**	**0.0053 J**	**0.0342**	**0.0128 J**	**0.4135**	**0.717**	**0.0499**
Thallium	<0.01	<0.01	<0.02	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.01
Vanadium	**0.0923**	**0.0197 J**	**0.108**	NA	**0.0457 J**	**0.0645**	**0.0639**	**0.0762**	**0.0371**	**0.152**	**0.0641**

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW17	SS18-MW18	SS18-MW18	SS18-MW19	SS18-MW19	SS18-MW19	SS18-MW20	SS18-MW20	SS18-MW20	SS18-MW21	SS18-MW21
Date Sampled	**9/12/2012**	**9/23/2009**	**9/13/2012**	**10/1/2009**	**9/13/2012**	**9/14/2012**	**10/1/2009**	**9/14/2012**	**10/1/2012**	**9/22/2009**	**9/13/2012**
Acetone	<0.025	<0.025	<0.025	<0.25	<0.13	NA	<0.025	<0.025	NA	<0.025	<0.025
Bromodichloromethane	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
Carbon disulfide	<0.002	**0.00059 J**	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	<0.002	<0.002
1,1-Dichloroethane	<0.001	**0.0083**	**0.0085**	**0.548**	**0.497**	NA	**0.0066**	<0.001	NA	<0.001	<0.001
1,1-Dichloroethylene	<0.001	**0.0024**	**0.0028**	**0.0671**	**0.0538**	NA	**0.00099 J**	<0.001	NA	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	**0.0624**	**0.102**	**0.0029 J**	**0.0082**	NA	<0.001	<0.001	NA	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.02	<0.01	NA	<0.002	<0.002	NA	<0.002	<0.002
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.05	<0.025	NA	**0.0023 J**	<0.005	NA	<0.005	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	**0.0039 J**	**0.0053**	NA	<0.001	<0.001	NA	<0.001	<0.001
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.01	<0.005	NA	<0.001	<0.001	NA	<0.001	<0.001
Tetrachloroethylene	<0.001	**0.0129**	**0.0164**	**0.0488**	**0.15**	NA	**0.0011**	<0.001	NA	<0.001	<0.001
Trichloroethylene	<0.001	**0.0956**	**0.111**	**0.0134**	**0.0402**	NA	**0.00048 J**	<0.001	NA	<0.001	<0.001
Butyl benzyl phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	<0.0049	<0.0048	<0.0048
bis-(2-Ethylhexyl)phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	<0.0049	<0.0048	<0.0048
Dibenzofuran	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	<0.005	NA	<0.0049	<0.0048	<0.0048
Di-n-butyl phthalate	<0.0049	<0.0048	<0.0048	<0.0051	NA	<0.0048	**0.001 J**	NA	<0.0049	<0.0048	<0.0048
Pentachlorophenol	<0.025	<0.024	<0.024	<0.026	NA	<0.024	<0.025	NA	<0.024	<0.024	<0.024
Aluminum	**0.0984 J**	**0.0313 J**	**0.806**	**0.0338 J**	**3.18**	NA	**0.0283 J**	**1.74**	NA	**0.0417 J**	**0.0721 J**
Antimony	**0.0029 J**	<0.006	<0.12	<0.012	**0.0053 J**	NA	<0.012	<0.012	NA	<0.006	**0.0038 J**
Arsenic	**0.0078 J**	**0.0129**	**0.0164**	<0.02	**0.0248**	NA	<0.02	**0.0212**	NA	**0.014**	**0.0164**
Calcium	**460**	**499**	**599**	**854**	**792**	NA	**638**	**653**	NA	**477**	**492**
Chromium	<0.01	<0.01	<0.2	<0.01	**0.254**	NA	<0.01	**0.0083 J**	NA	<0.01	<0.01
Cobalt	<0.05	**0.0027 J**	**0.0036 J**	**0.0023 J**	**0.0044 J**	NA	**0.0021 J**	**0.001 J**	NA	**0.0034 J**	**0.0021 J**
Iron	**0.049 J**	**0.242 J**	**0.75**	**0.648**	**8.17**	NA	**0.104 J**	**1.26**	NA	**0.613**	<0.3
Manganese	**0.0067 J**	**0.408**	**0.185**	**0.536**	**0.364**	NA	**0.0201**	**0.12**	NA	**0.475**	**0.0389**
Thallium	<0.01	<0.01	**0.0719 J**	<0.01	**0.003 J**	NA	<0.01	<0.02	NA	<0.01	**0.003 J**
Vanadium	**0.0747**	**0.0566**	**0.0785**	**0.0322 J**	**0.173**	NA	**0.069**	**0.216**	NA	**0.0575**	**0.103**

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	SS18-MW22 (Average)	SS18-MW22 (Average)	SS18-MW23	SS18-MW24	SS18-MW25	SS18-MW26	SS18-MW27	SS18-MW28	SS18-MW30 (Average)	S51-MW1	S51-MW1
Date Sampled	**9/26/2009**	**9/11/2012**	**9/10/2012**	**9/10/2012**	**9/10/2012**	**9/11/2012**	**9/11/2012**	**9/13/2012**	**9/13/2012**	**6/4/2007**	**9/12/2012**
Acetone	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.01	<0.025
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00041 J**	<0.001
Carbon disulfide	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
1,1-Dichloroethane	**0.000375**	**0.00041**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000825**	<0.001	<0.001
1,1-Dichloroethylene	**0.0052**	**0.00435**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00084**	<0.002	<0.002
cis-1,2-Dichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl ethyl ketone	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005
Methyl tert butyl ether	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001
1,2,3-Trichlorobenzene	<0.001	**0.0005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	<0.001	<0.001	**0.00054 J**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0036**	**0.0006 J**	<0.001
Butyl benzyl phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.02	<0.0049
bis-(2-Ethylhexyl)phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	**0.003 JB**	<0.0049
Dibenzofuran	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.01	<0.0049
Di-n-butyl phthalate	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	<0.0049	<0.0048	<0.0048	<0.02	<0.0049
Pentachlorophenol	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.025	<0.024	<0.024	<0.06	<0.025
Aluminum	**0.01815**	**0.06305**	**0.0966 J**	**0.164 J**	**0.458**	**0.431**	**0.944**	**0.304**	**0.386**	NA	**0.0399 J**
Antimony	<0.006	**0.0035**	**0.0045 J**	**0.0043 J**	**0.004 J**	**0.003 J**	<0.006	**0.004 J**	<0.03	NA	**0.0031 J**
Arsenic	**0.0108**	**0.01375**	**0.0049 J**	**0.0052 J**	**0.0164**	**0.0355**	**0.0108**	**0.0163**	**0.01365**	NA	**0.0268**
Calcium	**481**	**522.5**	**585**	**543**	**577**	**631**	**642**	**523**	**1480**	NA	**604**
Chromium	<0.01	<0.01	**0.0141**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	NA	<0.01
Cobalt	<0.05	<0.05	<0.05	<0.05	**0.0942**	<0.05	**0.0028 J**	<0.05	**0.00355**	NA	**0.0154 J**
Iron	**0.05785**	<0.3	**0.0412 J**	**0.0763 J**	**0.318**	**0.294 J**	**0.718**	**0.207 J**	**0.2965**	NA	**0.0629 J**
Manganese	**0.219**	**0.01295**	**0.0802**	**0.0284**	**1.35**	**0.428**	**0.633**	**0.119**	**0.9395**	NA	**2.25**
Thallium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	NA	<0.01
Vanadium	**0.06035**	**0.0888**	**0.0747**	**0.0321 J**	**0.105**	**0.0362 J**	**0.0407 J**	**0.0757**	**0.02025**	NA	**0.107**

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-5(b)
Representative Concentrations of Groundwater for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

Sample ID	S51-MW3	S51-MW3 (Average)	S51-MW4	S51-MW4	S51-MW5	S51-MW5	S51-MW7 (Average)	S51-MW7	Representative Concentration (mg/L)
Date Sampled	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	**6/4/2007**	**9/12/2012**	
Acetone	<0.01	<0.025	<0.01	<0.025	<0.01	<0.025	<0.01	<0.025	0.0135
Bromodichloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008
sec-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0009
tert-Butylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006
o-Chlorotoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006
Carbon disulfide	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	0.0012
1,1-Dichloroethane	**0.0025**	**0.0142**	**0.0002 J**	**0.00044 J**	<0.001	<0.001	**0.0005**	<0.001	0.0224
1,1-Dichloroethylene	**0.0028**	**0.0046**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0128
Dibromochloromethane	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006
Dichlorodifluoromethane	<0.002	<0.002	<0.002	**0.0012 J**	<0.002	<0.002	**0.00058**	<0.002	0.0012
cis-1,2-Dichloroethylene	**0.00018 J**	**0.10145**	<0.001	<0.001	<0.001	<0.001	**0.00046**	<0.001	0.0078
m-Dichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.000385**	<0.001	0.0006
p-Isopropyltoluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006
Methyl chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0012
Methyl ethyl ketone	<0.006	<0.005	<0.006	<0.005	<0.006	<0.005	<0.006	<0.005	0.0031
Methyl tert butyl ether	<0.005	**0.001095**	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	0.0010
1,2,3-Trichlorobenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006
Tetrachloroethylene	**0.00059 J**	**0.0253**	**0.002**	**0.0038**	<0.001	**0.002**	**0.000375**	<0.001	0.0051
Trichloroethylene	**0.0065**	**0.07735**	**0.00061 J**	**0.0013**	<0.001	**0.0006 J**	**0.0038**	**0.00046 J**	0.0061
Butyl benzyl phthalate	<0.02	<0.0048	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.0048	0.0034
bis-(2-Ethylhexyl)phthalate	**0.0026 JB**	<0.0048	<0.01	<0.0049	<0.01	<0.0049	**0.00405**	<0.0048	0.0026
Dibenzofuran	<0.01	<0.0048	<0.01	<0.0049	<0.01	<0.0049	<0.01	<0.0048	0.0026
Di-n-butyl phthalate	<0.02	<0.0048	<0.02	<0.0049	<0.02	<0.0049	<0.02	<0.0048	0.0034
Pentachlorophenol	<0.06	<0.024	<0.06	**0.006 J**	<0.06	<0.025	<0.06	<0.024	0.0145
Aluminum	NA	**0.06305**	NA	**0.171 J**	NA	**0.254**	NA	**0.153 J**	0.5017
Antimony	NA	<0.012	NA	**0.0036 J**	NA	**0.0029 J**	NA	**0.0029 J**	0.0057
Arsenic	NA	**0.02785**	NA	**0.0135**	NA	**0.0148**	NA	**0.0169**	0.0153
Calcium	NA	**727.5**	NA	**671**	NA	**708**	NA	**607**	609
Chromium	NA	<0.02	NA	<0.01	NA	**0.0014 J**	NA	**0.0114**	0.0165
Cobalt	NA	<0.05	NA	<0.05	NA	<0.05	NA	<0.05	0.0188
Iron	NA	**0.0863**	NA	**0.101 J**	NA	**0.156 J**	NA	**0.0748 J**	0.6071
Manganese	NA	**0.228**	NA	**0.227**	NA	**0.401**	NA	**0.206**	0.2659
Thallium	NA	<0.02	NA	<0.01	NA	<0.01	NA	**0.0019 J**	0.0072
Vanadium	NA	**0.10275**	NA	**0.0917**	NA	**0.0698**	NA	**0.104**	0.0761

Notes:

B = Analyte found in method blank

J = Estimated value

Results are in mg/L = Milligrams per liter

Value in bold = Detected concentration

Table 8-6(a)
Toxicity and Physical and Chemical Parameters Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
SS-18, Holloman Air Force Base, New Mexico

Chemical	Molecular Weight MW (g/mol)	Organic carbon partition coefficient K_{oc} (cm^3/g)	Diffusivity in air D_a (cm^2/s)	Diffusivity in water D_w (cm^2/s)	Pure component water solubility S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature H (atm-m^3/mol)	Henry's law constant reference temperature T_R (^oC)	Normal boiling point T_B (^oK)	Critical temperature T_C (^oK)	Enthalpy of vaporization at the normal boiling point $DH_{v,b}$ (cal/mol)	Unit risk factor URF ($\mu g/m^3)^{-1}$	Reference concentration RfC (mg/m^3)
Acetone	5.81E+01	2.36E+00	1.06E-01	1.10E-05	1.00E+06	1.44E-03	3.52E-05	2.50E+01	3.29E+02	5.08E+02	6.96E+03	NA	3.10E+01
Bromodichloromethane	1.64E+02	3.18E+01	5.60E-02	1.10E-05	3.03E+03	8.61E-02	2.11E-03	2.50E+01	3.63E+02	5.86E+02	7.80E+03	3.70E-05	NA
sec-Butylbenzene	***1.34E+02***	***2.09E+03***	***5.75E-02***	***6.75E-06***	***1.81E+01***	***5.07E-01***	***1.24E-02***	2.50E+01	4.47E+02	6.79E+02	8.87E+04	NA	NA
tert-Butylbenzene	***1.34E+02***	***2.45E+03***	***5.84E-02***	***6.76E-06***	***1.51E+01***	***8.56E-01***	***2.09E-02***	2.50E+01	4.42E+02	1.22E+03	8.98E+03	NA	NA
o-Chlorotoluene	1.73E+02	3.83E+02	6.30E-02	8.70E-06	3.74E+02	1.46E-01	3.57E-03	NA	NA	NA	NA	NA	***8.00E-01***
Carbon disulfide	7.60E+01	2.17E+01	1.10E-01	1.30E-05	1.18E+03	5.74E-01	1.40E-02	2.50E+01	3.19E+02	5.52E+02	6.39E+03	NA	7.00E-01
1,1-Dichloroethane	9.90E+01	3.18E+01	8.40E-02	1.10E-05	5.04E+03	2.30E-01	5.63E-03	2.50E+01	3.31E+02	5.23E+02	6.90E+03	1.60E-06	NA
1,1-Dichloroethylene	9.70E+01	3.18E+01	8.60E-02	1.10E-05	2.42E+03	1.07E+00	2.62E-02	2.50E+01	3.05E+02	5.76E+02	6.25E+03	NA	2.00E-01
Dichlorodifluoromethane	1.20E+02	4.39E+01	7.80E-02	9.10E-06	2.80E+02	1.41E+01	3.45E-01	2.50E+01	2.43E+02	3.85E+02	9.42E+03	NA	1.00E-01
cis-1,2-Dichloroethylene	9.70E+01	3.96E+01	8.80E-02	1.10E-05	3.50E+03	1.67E-01	4.08E-03	2.50E+01	3.34E+02	5.44E+02	7.19E+03	NA	***6.00E-02***
m-Dichlorobenzene	***1.47E+02***	***1.70E+02***	***6.80E-02***	***8.13E-06***	***1.10E+02***	***1.95E-01***	***4.77E-03***	2.50E+01	4.46E+02	6.84E+02	9.23E+03	NA	***8.00E-03***
p-Isopropyltoluene	***1.34E+02***	***2.29E+03***	***5.72E-02***	***6.73E-06***	***1.71E+01***	***4.66E-01***	***1.14E-02***	NA	NA	NA	NA	NA	NA
Methyl chloride	5.10E+01	1.32E+01	1.20E-01	1.40E-05	5.32E+03	3.62E-01	8.85E-03	2.50E+01	2.49E+02	4.16E+02	5.11E+03	NA	9.00E-02
Methyl ethyl ketone	7.20E+01	4.51E+00	9.10E-02	1.00E-05	2.23E+05	2.30E-03	5.63E-05	2.50E+01	3.53E+02	5.37E+02	7.48E+03	NA	5.00E+00
Methyl tert butyl ether	8.82E+01	1.16E+01	7.50E-02	8.60E-06	5.10E+04	2.42E-02	5.92E-04	2.50E+01	3.28E+02	4.97E+02	6.68E+03	2.60E-07	3.00E+00
1,2,3-Trichlorobenzene	*1.81E+02*	*1.38E+03*	*3.95E-02*	*8.38E-06*	*1.80E+01*	*5.11E-02*	*1.25E-03*	NA	NA	NA	NA	NA	***2.00E-03***
Tetrachloroethylene	1.70E+02	9.49E+01	5.00E-02	9.50E-06	2.06E+02	7.26E-01	1.78E-02	2.50E+01	3.94E+02	6.20E+02	8.29E+03	5.90E-06	2.70E-01
Trichloroethylene	1.31E+02	6.07E+01	6.90E-02	1.00E-05	1.28E+03	4.04E-01	9.88E-03	2.50E+01	3.60E+02	5.44E+02	7.51E+03	4.10E-06	2.00E-03
Dibenzofuran	*1.68E+02*	*9.16E+03*	*4.10E-02*	*7.38E-06*	*3.10E+00*	*8.71E-03*	*2.13E-04*	2.50E+01	5.60E+02	8.24E+02	6.64E+04	NA	NA

Notes:
NA = Not available
NMED = New Mexico Environment Department
USEPA = United States Environmental Protection Agency
TCEQ = Texas Commission on Environmental Quality
Value in normal font obtained from the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a)
Value in italics obtained from the Regional Screening Level (RSL) Summary Table (USEPA, November 2012)
Value in bold and italics obtained from the Texas Risk Reduction Program Rule Tables (TCEQ, 2012)
Value underlined obtained from the User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings (USEPA, 2004a)
cm^3/g = Cubic centimeters per gram
cm^2/s = Square centimeters per second
mg/L = Milligrams per liter
atm-m^3/mol = Atmospheric-cubic meters per mole
˚C = Degrees Celcius
˚K = Kelvin
cal/mol = Calories per mole
g/mol = Grams per mole
mg/m^3 = Milligrams per cubic meter
$\mu g/m^3$ = Micrograms per cubic meter

Table 8-6(b)
Exposure Factors Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
SS-18, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	ATc	days	25,550	NMED, 2012a
Averaging time for non-carcinogen	ATnc	days	ED*365	NMED, 2012a
Exposure duration for commercial/industrial worker	ED	years	25	NMED, 2012a
Exposure duration for resident	ED	years	30	NMED, 2012a
Exporue frequency for commercial/industrial worker	EF	days/year	225	NMED, 2012a
Exposure frequency for resident	EF	days/year	350	NMED, 2012a

Notes:
NMED = New Mexico Environment Department
NMED 2012a - *Risk Assessment Guidance for Site Investigations and Remediation*

Table 8-6(c)
Media Specific Parameters Used for Calculating Target Levels of Indoor Inhalation of Vapors (J&E Model)
SS-18, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Value Used	Source
Source Parameters				
Average soil temperature	T_s	°C	24.8	Site-specific
Depth below grade to water table	L_{WT}	cm	171	Site-specific
Thickness of capillary fringe zone	L_{cz}	cm	18.8	USEPA, 2004a
Geotechnical Parameters				
Soil dry bulk density in the vadose zone and the capillary fringe zone	ρ_b	g/cm^3	1.62	USEPA, 2004a
Soil total porosity in the vadose zone and the capillary fringe zone	n	unitless	0.39	USEPA, 2004a
Soil water-filled porosity in the vadose zone	θ_w	cm^3/cm^3	0.076	USEPA, 2004a
Soil water-filled porosity in the capillary fringe zone	θ_{wcz}	cm^3/cm^3	0.351	Professional Judgment
Building Parameters for Current Commercial/Industrial Worker				
Depth below grade to bottom of enclosed space floor	L_F	cm	15	USEPA, 2004a
Enclosed space floor thickness	L_{crack}	cm	10	USEPA, 2004a
Enclosed space floor length*	L_B	cm	7,010	Site-specific
Enclosed space floor width*	W_B	cm	2,591	Site-specific
Enclosed space height*	H_B	cm	305	Site-specific
Floor-wall seam crack width	w	cm	0.1	USEPA, 2004a
Indoor air exchange rate	ER	1/hr	0.83	ASTM, 1995
Average vapor flow rate into building	Q_{soil}	L/min	5	USEPA, 2004a
Building Parameters for Future Resident				
Depth below grade to bottom of enclosed space floor	L_F	cm	15	USEPA, 2004a
Enclosed space floor thickness	L_{crack}	cm	10	USEPA, 2004a
Enclosed space floor length	L_B	cm	1,000	USEPA, 2004a
Enclosed space floor width	W_B	cm	1,000	USEPA, 2004a
Enclosed space height	H_B	cm	244	USEPA, 2004a
Floor-wall seam crack width	w	cm	0.1	USEPA, 2004a
Indoor air exchange rate	ER	1/hr	0.25	USEPA, 2004a
Average vapor flow rate into building	Q_{soil}	L/min	5	USEPA, 2004a

Notes:
* = Dimensions for Building 280 (office building) located close to the wells with higher chlorinated solvent concentrations
ASTM = ASTM International, formerly American Society for Testing and Materials
USEPA = United States Environmental Protection Agency
ASTM, 1995 - *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*
USEPA, 2004a - *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings*
˚C = Degrees celcius
cm = Centimeters
g/cm^3 = Grams per cubic centimeter
cm^3/cm^3 = Cubic centimeters per cubic centimeter
1/hr = One per hour
L/min = Liters per minute

Table 8-7(a)
Toxicity Values and Parameters Used for Calculating Target Levels for Dermal Contact with Groundwater
SS-18, Holloman Air Force Base, New Mexico

COPC	Ingestion Slope Factor (SF_o) [kg-day/mg]	Ingestion Reference Dose (RfD_o) [mg/kg-day]	Gastrointestinal Absorption Factor (ABS_{GI}) [--]	Dermal Slope Factor (SF_d) [kg-day/mg]	Dermal Reference Dose (RfD_d) [mg/kg-day]	Dermal Permeability Constant (K_p) [cm/hr]	Relative Contribution of Permeability Coefficient (B) [--]	Lag Time (τ_{event}) [hr]	Time to Reach Steady-State (t*) [hr]	Fraction Absorbed (FA) [--]
Acetone	NA	9.00E-01	1.00E+00	NA	9.00E-01	*5.12E-04*	***1.50E-03***	***2.22E-01***	***5.34E-01***	***1***
Bromodichloromethane	6.20E-02	2.00E-02	1.00E+00	6.20E-02	2.00E-02	*4.02E-03*	**2.27E-02**	**8.83E-01**	**2.12E+00**	**1**
sec-Butylbenzene	NA	*4.00E-02*	*8.00E-01*	NA	3.20E-02	***2.67E-03***	***1.19E-02***	***5.92E-01***	***1.42E+00***	***1***
tert-Butylbenzene	NA	*4.00E-02*	*8.00E-01*	NA	3.20E-02	***1.62E-01***	***7.19E-01***	***5.92E-01***	***2.29E+00***	***1***
o-Chlorotoluene	NA	2.00E-02	1.00E+00	NA	2.00E-02	*5.72E-02*	***2.89E-01***	***9.73E-01***	***2.34E+00***	***0.98***
Carbon disulfide	NA	1.00E-01	1.00E+00	NA	1.00E-01	1.14E-02	**5.91E-02**	**2.99E-01**	**7.18E-01**	**1**
1,1-Dichloroethane	5.70E-03	2.00E-01	1.00E+00	5.70E-03	2.00E-01	*6.75E-03*	**2.58E-02**	**3.82E-01**	**9.18E-01**	**1**
1,1-Dichloroethylene	NA	5.00E-02	1.00E+00	NA	5.00E-02	*1.17E-02*	**4.41E-02**	**3.72E-01**	**8.93E-01**	**1**
Dibromochloromethane	8.40E-02	2.00E-02	1.00E+00	8.40E-02	2.00E-02	*2.89E-03*	**1.79E-02**	**1.57E+00**	**3.77E+00**	**1**
Dichlorodifluoromethane	NA	2.00E-01	1.00E+00	NA	2.00E-01	*8.95E-03*	**3.79E-02**	**5.07E-01**	**1.22E+00**	**1**
cis-1,2-Dichloroethylene	NA	2.00E-03	1.00E+00	NA	2.00E-03	*1.10E-02*	***4.17E-02***	***3.67E-01***	***8.82E-01***	***1***
m-Dichlorobenzene	NA	*3.00E-02*	*1.00E+00*	NA	3.00E-02	**5.80E-02**	**3.00E-01**	**7.10E-01**	**1.71E+00**	**1**
p-Isopropyltoluene	NA	*1.00E-01*	*8.00E-01*	NA	8.00E-02	***1.52E-01***	***6.77E-01***	***5.92E-01***	***2.31E+00***	***1***
Methyl chloride	*1.30E-02*	NA	*8.00E-01*	1.63E-02	NA	*3.28E-03*	***8.97E-03***	***2.04E-01***	***4.90E-01***	***1***
Methyl ethyl ketone	NA	6.00E-01	1.00E+00	NA	6.00E-01	*9.62E-04*	**3.14E-03**	**2.70E-01**	**6.47E-01**	**1**
Methyl tert butyl ether	1.80E-03	NA	1.00E+00	1.80E-03	NA	*2.11E-03*	***7.62E-03***	***3.28E-01***	***7.87E-01***	***1***
1,2,3-Trichlorobenzene	NA	*8.00E-04*	*1.00E+00*	NA	8.00E-04	*7.38E-02*	***3.82E-01***	***1.09E+00***	***2.62E+00***	***0.97***
Tetrachloroethylene	5.40E-01	1.00E-02	1.00E+00	5.40E-01	1.00E-02	*3.34E-02*	**1.66E-01**	**9.06E-01**	**2.18E+00**	**1**
Trichloroethylene	4.60E-02	5.00E-04	1.00E+00	4.60E-02	5.00E-04	1.16E-02	**5.13E-02**	**5.81E-01**	**1.39E+00**	**1**
Butyl benzyl phthalate	*1.90E-03*	*2.00E-01*	*1.00E+00*	1.90E-03	2.00E-01	***4.44E-02***	***3.02E-01***	***5.88E+00***	***1.41E+01***	***0.95***
bis-(2-Ethylhexyl)phthalate	1.40E-02	2.00E-02	1.00E+00	1.40E-02	2.00E-02	*1.13E+00*	***8.59E+00***	***1.62E+01***	***7.29E+01***	***0.3***
Dibenzofuran	NA	*1.00E-03*	*1.00E+00*	NA	1.00E-03	*9.75E-02*	***4.86E-01***	***9.20E-01***	***2.21E+00***	***0.98***
Di-n-butyl phthalate	NA	1.00E-01	1.00E+00	NA	1.00E-01	*4.20E-02*	***2.70E-01***	***3.81E+00***	***9.14E+00***	***0.95***
Pentachlorophenol	4.00E-01	5.00E-03	1.00E+00	4.00E-01	5.00E-03	*1.27E-01*	**2.47E+00**	**3.33E+00**	**1.38E+01**	**0.9**
Aluminum	NA	1.00E+00	1.00E+00	NA	1.00E+00	*1.00E-03*	NA	NA	NA	NA
Antimony	NA	4.00E-04	1.50E-01	NA	6.00E-05	*1.00E-03*	NA	NA	NA	NA
Arsenic	1.50E+00	3.00E-04	1.00E+00	1.50E+00	3.00E-04	*1.00E-03*	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	*1.50E+00*	1.30E-02	NA	1.95E-02	*1.00E-03*	NA	NA	NA	NA
Cobalt	NA	*3.00E-04*	*1.00E+00*	NA	3.00E-04	*4.00E-04*	NA	NA	NA	NA
Iron	NA	7.00E-01	1.00E+00	NA	7.00E-01	*1.00E-03*	NA	NA	NA	NA
Manganese	NA	2.40E-02	4.00E-02	NA	9.60E-04	*1.00E-03*	NA	NA	NA	NA
Thallium	NA	1.00E-05	1.00E+00	NA	1.00E-05	*1.00E-03*	NA	NA	NA	NA
Vanadium	NA	5.00E-03	1.00E+00	NA	5.00E-03	*1.00E-03*	NA	NA	NA	NA

Notes:
NA = Not available
NMED = New Mexico Environment Department
USEPA = United States Environmental Protection Agency
TCEQ = Texas Commission on Environmental Quality
Value in normal font was obtained from the *Risk Assessment Guidance for Investigations and Remediation* (NMED, 2012a)
Value in italics obtained from the Regional Screening Level (RSL) Summary Table (USEPA, November 2012)
Value in italics and underlined obtained from the Texas Risk Reduction Program Rule Tables (TCEQ, 2012)
Value in bold was obtained from the Risk Assessment Guidance (RAGS) Volume I, Part E (USEPA, 2004b)
Value in bold and italics was estimated as per the RAGS Volume I, Part E (USEPA, 2004b)
kg-day/mg = Kilograms per day per millgram
mg/kg-day = Milligrams per kilogram per day
cm/hr = Centimeters per hour
hr = Hours

Table 8-7(b)
Exposure Factors Used for Calculating Target Levels for Dermal Contact with Groundwater
SS-18, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	ATc	days	25,550	NMED, 2012a
Averaging time for non-carcinogen	ATnc	days	ED*365	NMED, 2012a
Body weight for construction worker	BW	kg	70	NMED, 2012a
Exposure duration for construction worker	ED	years	1	NMED, 2012a
Exposure frequency for construction worker	EF	days/year	250	NMED, 2012a
Skin surface area for dermal contact with water for construction worker	SA_{gw}	cm^2	3,300	USEPA, 2004b
Event frequency for dermal contact with water for construction worker	EV_{gw}	event/day	1	Professional judgment
Event duration for dermal contact with water for construction worker	t_{event}	hr/event	1	Professional judgment

Notes:
NMED = New Mexico Environment Department
USEPA = United States Environmental Protection Agency
NMED, 2012a - *Risk Assessment Guidance for Site Investigations and Remediation*
USEPA, 2004b - *Risk Assessment Guidance for Superfund Volume I, Part E Supplemental Guidance for Dermal Risk Assessment*
kg = Kilograms
days/year = Days per year
cm^2 = Square centimeters
event/day = Events per day
hr/event = Hours per event

Table 8-8(a)
Toxicity and Physical/Chemical Parameters for Outdoor Inhalation of Vapors from Groundwater
SS-18, Holloman Air Force Base, New Mexico

Chemical	Molecular Weight MW (g/mol)	Organic carbon partition coefficient K_{oc} (cm^3/g)	Soil water sorption coefficient K_d (cm^3/g)	Diffusivity in air D_a (cm^2/s)	Diffusivity in water D_w (cm^2/s)	Pure component water solubility S (mg/L)	Henry's law constant H' (unitless)	Unit risk factor URF ($\mu g/m^3)^{-1}$	Reference concentration RfC (mg/m^3)
Acetone	5.81E+01	2.36E+00	NA	1.06E-01	1.10E-05	1.00E+06	1.44E-03	NA	3.10E+01
Bromodichloromethane	1.64E+02	3.18E+01	NA	5.60E-02	1.10E-05	3.03E+03	8.61E-02	3.70E-05	NA
sec-Butylbenzene	***1.34E+02***	***2.09E+03***	NA	***5.75E-02***	***6.75E-06***	***1.81E+01***	***5.07E-01***	NA	NA
tert-Butylbenzene	***1.34E+02***	***2.45E+03***	NA	***5.84E-02***	***6.76E-06***	***1.51E+01***	***8.56E-01***	NA	NA
o-Chlorotoluene	1.73E+02	3.83E+02	NA	6.30E-02	8.70E-06	3.74E+02	1.46E-01	NA	***8.00E-01***
Carbon disulfide	7.60E+01	2.17E+01	NA	1.10E-01	1.30E-05	1.18E+03	5.74E-01	NA	7.00E-01
1,1-Dichloroethane	9.90E+01	3.18E+01	NA	8.40E-02	1.10E-05	5.04E+03	2.30E-01	1.60E-06	NA
1,1-Dichloroethylene	9.70E+01	3.18E+01	NA	8.60E-02	1.10E-05	2.42E+03	1.07E+00	NA	2.00E-01
Dichlorodifluoromethane	1.20E+02	4.39E+01	NA	7.80E-02	9.10E-06	2.80E+02	1.41E+01	NA	1.00E-01
cis-1,2-Dichloroethylene	9.70E+01	3.96E+01	NA	8.80E-02	1.10E-05	3.50E+03	1.67E-01	NA	***6.00E-02***
m-Dichlorobenzene	***1.47E+02***	***1.70E+02***	NA	***6.80E-02***	***8.13E-06***	***1.10E+02***	***1.95E-01***	NA	***8.00E-03***
p-Isopropyltoluene	***1.34E+02***	***2.29E+03***	NA	***5.72E-02***	***6.73E-06***	***1.71E+01***	***4.66E-01***	NA	NA
Methyl chloride	5.10E+01	1.32E+01	NA	1.20E-01	1.40E-05	5.32E+03	3.62E-01	NA	9.00E-02
Methyl ethyl ketone	7.20E+01	4.51E+00	NA	9.10E-02	1.00E-05	2.23E+05	2.30E-03	NA	5.00E+00
Methyl tert butyl ether	8.82E+01	1.16E+01	NA	7.50E-02	8.60E-06	5.10E+04	2.42E-02	2.60E-07	3.00E+00
1,2,3-Trichlorobenzene	*1.81E+02*	*1.38E+03*	NA	*3.95E-02*	*8.38E-06*	*1.80E+01*	*5.11E-02*	NA	***2.00E-03***
Tetrachloroethylene	1.70E+02	9.49E+01	NA	5.00E-02	9.50E-06	2.06E+02	7.26E-01	5.90E-06	2.70E-01
Trichloroethylene	1.31E+02	6.07E+01	NA	6.90E-02	1.00E-05	1.28E+03	4.04E-01	4.10E-06	2.00E-03
Dibenzofuran	*1.68E+02*	*9.16E+03*	NA	*4.10E-02*	*7.38E-06*	*3.10E+00*	*8.71E-03*	NA	NA

Notes:
NA = Not available
NMED = New Mexico Environment Department
USEPA = United States Environmental Protection Agency
TCEQ = Texas Commission on Environmental Quality
Value in normal font obtained from the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a)
Value in italics obtained from the Regional Screening Level (RSL) Summary Table (USEPA, November 2012)
Value in bold and italics obtained from the Texas Risk Reduction Program Rule Tables (TCEQ, 2012)
$\mu g/m^3$ = micrograms per cubic meter
mg/m^3 = milligrams per cubic meter
mg/L = milligrams per Liter
cm^3/g = cubic centimeters per gram
cm^2/s = square centimeters per second
g/mol = gram per mole

Table 8-8(b)
Exposure Factors Used for Calculating Target Levels for Outdoor Inhalation of Vapors from Groundwater
SS-18, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Values Used	Source
Averaging time for carcinogen	ATc	days	25,550	NMED, 2012a
Averaging time for non-carcinogen	ATnc	days	ED*365	NMED, 2012a
Body weight for adult	BWa	kg	70	NMED, 2012a
Exposure duration for construction workers	ED_{CW}	years	1	NMED, 2012a
Exposure frequency for construction workers	EF_{CW}	days/year	250	NMED, 2012a
Exposure time for construction workers	ET_{CW}	Unitless	0.33	NMED, 2012a

Notes:
NMED = New Mexico Environment Department
NMED, 2012a - *Risk Assessment Guidance for Site Investigations and Remediation*
kg = Kilograms
days/year = Days per year

Table 8-8(c)
Fate and Transport Parameters Used for Calculating Outdoor Inhalation of Vapors from Groundwater
SS-18, Holloman Air Force Base, New Mexico

Parameter	Symbol	Unit	Value Used	Source
Mean annual wind speed	U_m	m/s	4.02	NMED, 2012a
Breathing zone height	δ_a	cm	200	ASTM, 1995
Depth to groundwater	L_{GW}	cm	171	Site-specific
Thickness of capillary fringe[1]	h_{cap}	cm	18.8	USEPA, 2004a
Dimension of source area parallel to wind direction[2]	W_{ga}	cm	16,764	Site-specific
Soil dry bulk density in vadose zone[1]	ρ_b	g/cm^3	1.62	USEPA, 2004a
Soil total porosity in vadose zone[1]	n	unitless	0.39	USEPA, 2004a
Soil water-filled porosity in vadose zone[1]	θ_{wv}	cm^3/cm^3	0.076	USEPA, 2004a
Soil total porosity in capillary fringe[3]	n_{cap}	unitless	0.39	Professional Judgment
Soil water-filled porosity in capillary fringe[4]	θ_{wcap}	cm^3/cm^3	0.351	Professional Judgment

Notes:
ASTM = ASTM International, formerly American Society for Testing and Materials
NMED = New Mexico Environment Department
ASTM, 1995 - *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*
NMED, 2012a - *Risk Assessment Guidance for Site Investigations and Remediation*
USEPA, 2004a - *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings*
1 = Obtained from USEPA (2004a) for site-specific soil type of loamy sand
2 = Since this is not a sensitive parameter and wind direction is variable, conservatively the longer area dimension of 550 ft (16,764 cm) was used
3 = Soil total porosity in capillary fringe was assumed to be the same as in the vadose zone
4 = Water-filled porosity in capillary fringe was assumed to be 90% of the water-filled porosity in the vadose zone
m/s = meters per second
cm = centimeters
g/cm^3 = grams per cubic centimeter
cm^3/cm^3 = cubic centimeters per cubic centimeter

Table 8-9(a)
Summary of Calculated Risk for Current Commercial/Industrial Worker
SS-18, Holloman Air Force Base, New Mexico

COPCs	Indoor Inhalation of Vapors from Groundwater				
	Representative Concentration (mg/L)	Target Level (mg/L)		Risk	
		Carcinogenic	Non-carcinogenic	Carcinogenic	Non-carcinogenic
Acetone	0.0322	NA	5.91E+05	N/A	5.45E-08
Bromodichloromethane	0.0013	7.96E-01	NA	1.63E-08	N/A
sec-Butylbenzene	0.0013	NA	NA	N/A	N/A
tert-Butylbenzene	0.0013	NA	NA	N/A	N/A
o-Chlorotoluene	0.0013	NA	7.11E+02	N/A	1.85E-06
Carbon disulfide	0.0028	NA	1.70E+02	N/A	1.67E-05
1,1-Dichloroethane	0.1350	9.73E+00	NA	1.39E-07	N/A
1,1-Dichloroethylene	0.0170	NA	3.42E+01	N/A	4.97E-04
Dichlorodifluoromethane	0.0026	NA	1.61E+00	N/A	1.63E-03
cis-1,2-Dichloroethylene	0.0616	NA	3.98E+01	N/A	1.55E-03
m-Dichlorobenzene	0.0013	NA	6.07E+00	N/A	2.16E-04
p-Isopropyltoluene	0.0013	NA	NA	N/A	N/A
Methyl chloride	0.0026	NA	2.85E+01	N/A	9.21E-05
Methyl ethyl ketone	0.0066	NA	6.23E+04	N/A	1.06E-07
Methyl tert butyl ether	0.0018	2.33E+02	6.49E+03	7.93E-11	2.85E-07
1,2,3-Trichlorobenzene	0.0013	NA	3.24E+00	N/A	4.06E-04
Tetrachloroethylene	0.0319	1.66E+00	9.47E+01	1.92E-07	3.37E-04
Trichloroethylene	0.0450	2.97E+00	8.70E-01	1.51E-07	5.16E-02
Dibenzofuran	0.0027	NA	NA	N/A	N/A
		Cumulative Risks		5.0E-07	5.6E-02

Notes:
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NA = Not available

Table 8-9(b)
Summary of Calculated Risk for Future Resident
SS-18, Holloman Air Force Base, New Mexico

COPCs	Indoor Inhalation of Vapors from Groundwater				
	Representative Concentration (mg/L)	Target Level (mg/L)		Risk	
		Carcinogenic	Non-carcinogenic	Carcinogenic	Non-carcinogenic
Acetone	0.0322	NA	1.21E+04	N/A	2.65E-06
Bromodichloromethane	0.0013	7.28E-02	NA	1.78E-07	N/A
sec-Butylbenzene	0.0013	NA	NA	N/A	N/A
tert-Butylbenzene	0.0013	NA	NA	N/A	N/A
o-Chlorotoluene	0.0013	NA	8.65E+01	N/A	1.52E-05
Carbon disulfide	0.0028	NA	2.09E+01	N/A	1.36E-04
1,1-Dichloroethane	0.1350	9.80E-01	NA	1.38E-06	N/A
1,1-Dichloroethylene	0.0170	NA	4.42E+00	N/A	3.85E-03
Dichlorodifluoromethane	0.0026	NA	2.15E-01	N/A	1.22E-02
cis-1,2-Dichloroethylene	0.0616	NA	4.65E+00	N/A	1.32E-02
m-Dichlorobenzene	0.0013	NA	7.57E-01	N/A	1.73E-03
p-Isopropyltoluene	0.0013	NA	NA	N/A	N/A
Methyl chloride	0.0026	NA	3.36E+00	N/A	7.81E-04
Methyl ethyl ketone	0.0066	NA	1.63E+03	N/A	4.07E-06
Methyl tert butyl ether	0.0018	1.58E+01	5.30E+02	1.17E-09	3.49E-06
1,2,3-Trichlorobenzene	0.0013	NA	3.44E-01	N/A	3.81E-03
Tetrachloroethylene	0.0319	1.87E-01	1.27E+01	1.71E-06	2.50E-03
Trichloroethylene	0.0450	3.18E-01	1.12E-01	1.41E-06	4.02E-01
Dibenzofuran	0.0027	NA	NA	N/A	N/A
		Cumulative Risks		4.7E-06	4.4E-01

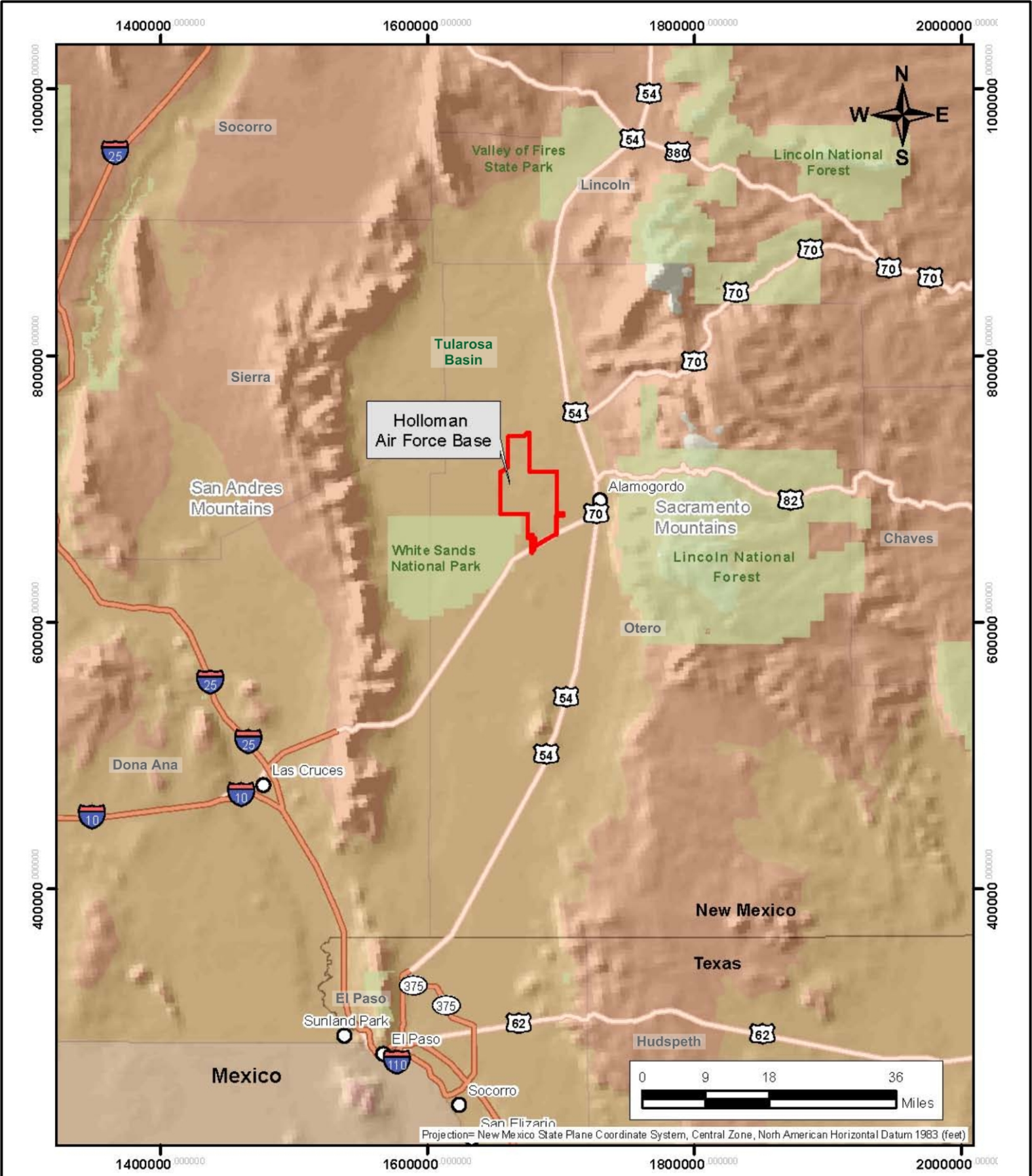
Notes:
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NA = Not available

Table 8-9(c)
Summary of Calculated Risk for Future Construction Worker
SS-18, Holloman Air Force Base, New Mexico

COPCs	Dermal Contact with Groundwater					Outdoor Inhalation of Vapors from Groundwater					Total Risk	
	Rep. Conc. (mg/L)	Target Level (mg/L)		Risk		Rep. Conc. (mg/L)	Target Level (mg/L)		Risk			
		C	NC	C	NC		C	NC	C	NC	C	NC
Acetone	0.0135	NA	3.77E+04	N/A	3.57E-07	0.0135	NA	NOC	N/A	N/A	N/A	3.57E-07
Bromodichloromethane	0.0008	3.35E+01	5.93E+01	2.25E-10	1.27E-05	0.0008	2.73E+03	NA	2.76E-12	N/A	2.28E-10	1.27E-05
sec-Butylbenzene	0.0009	NA	1.75E+02	N/A	5.07E-06	0.0009	NA	NA	N/A	N/A	N/A	N/A
tert-Butylbenzene	0.0006	NA	2.88E+00	N/A	2.13E-04	0.0006	NA	NA	N/A	N/A	N/A	N/A
o-Chlorotoluene	0.0006	NA	4.05E+00	N/A	1.47E-04	0.0006	NA	NOC	N/A	N/A	N/A	1.47E-04
Carbon disulfide	0.0012	NA	1.72E+02	N/A	7.18E-06	0.0012	NA	NOC	N/A	N/A	N/A	7.18E-06
1,1-Dichloroethane	0.0224	3.20E+02	5.22E+02	7.00E-10	4.30E-05	0.0224	NOC	NA	N/A	N/A	7.00E-10	4.30E-05
1,1-Dichloroethylene	0.0128	NA	7.63E+01	N/A	1.68E-04	0.0128	NA	NOC	N/A	N/A	N/A	1.68E-04
Dibromochloromethane	0.0006	2.58E+01	6.19E+01	2.43E-10	1.01E-05	0.0006	Not Volatile		N/A	N/A	N/A	N/A
Dichlorodifluoromethane	0.0012	NA	3.51E+02	N/A	3.38E-06	0.0012	NA	2.70E+02	N/A	4.40E-06	N/A	7.78E-06
cis-1,2-Dichloroethylene	0.0078	NA	3.26E+00	N/A	2.38E-03	0.0078	NA	NOC	N/A	N/A	N/A	2.38E-03
m-Dichlorobenzene	0.0006	NA	6.88E+00	N/A	8.65E-05	0.0006	NA	NOC	N/A	N/A	N/A	8.65E-05
p-Isopropyltoluene	0.0006	NA	7.66E+00	N/A	8.27E-05	0.0006	NA	NA	N/A	N/A	N/A	N/A
Methyl chloride	0.0012	2.90E+02	NA	4.08E-11	N/A	0.0012	NA	NOC	N/A	N/A	4.08E-11	N/A
Methyl ethyl ketone	0.0031	NA	1.26E+04	N/A	2.45E-07	0.0031	NA	NOC	N/A	N/A	N/A	2.45E-07
Methyl tert butyl ether	0.0010	3.45E+03	NA	2.95E-12	N/A	0.0010	NOC	NOC	N/A	N/A	2.95E-12	N/A
1,2,3-Trichlorobenzene	0.0006	NA	1.20E-01	N/A	4.98E-03	0.0006	NOC	NOC	N/A	N/A	N/A	4.98E-03
Tetrachloroethylene	0.0051	4.57E-01	3.52E+00	1.12E-07	1.45E-03	0.0051	NOC	NOC	N/A	N/A	1.12E-07	1.45E-03
Trichloroethylene	0.0061	1.93E+01	6.34E-01	3.15E-09	9.59E-03	0.0061	1.20E+04	1.41E+02	5.06E-12	4.32E-05	3.16E-09	9.63E-03
Butyl benzyl phthalate	0.0034	4.04E+01	2.19E+01	8.43E-10	1.55E-04	0.0034	Not Volatile		N/A	N/A	8.43E-10	1.55E-04
bis-(2-Ethylhexyl)phthalate	0.0026	4.11E-01	1.64E-01	6.44E-08	1.61E-02	0.0026	Not Volatile		N/A	N/A	6.44E-08	1.61E-02
Dibenzofuran	0.0026	NA	1.22E-01	N/A	2.12E-02	0.0026	NA	NA	N/A	N/A	N/A	2.12E-02
Di-n-butyl phthalate	0.0034	NA	1.44E+01	N/A	2.36E-04	0.0034	Not Volatile		N/A	N/A	N/A	2.36E-04
Pentachlorophenol	0.0145	9.41E-02	2.69E-01	1.54E-06	5.39E-02	0.0145	Not Volatile		N/A	N/A	1.54E-06	5.39E-02
Aluminum	0.5017	NA	3.10E+04	N/A	1.62E-05	0.5017	Not Volatile		N/A	N/A	N/A	1.62E-05
Antimony	0.0057	NA	1.86E+00	N/A	3.04E-03	0.0057	Not Volatile		N/A	N/A	N/A	3.04E-03
Arsenic	0.0153	1.45E+01	9.29E+00	1.06E-08	1.65E-03	0.0153	Not Volatile		N/A	N/A	1.06E-08	1.65E-03
Calcium	609	NA	NA	N/A	N/A	609	Not Volatile		N/A	N/A	N/A	N/A
Chromium	0.0165	NA	6.04E+02	N/A	2.73E-05	0.0165	Not Volatile		N/A	N/A	N/A	2.73E-05
Cobalt	0.0188	NA	2.32E+01	N/A	8.10E-04	0.0188	Not Volatile		N/A	N/A	N/A	8.10E-04
Iron	0.6071	NA	2.17E+04	N/A	2.80E-05	0.6071	Not Volatile		N/A	N/A	N/A	2.80E-05
Manganese	0.2659	NA	2.97E+01	N/A	8.94E-03	0.2659	Not Volatile		N/A	N/A	N/A	8.94E-03
Thallium	0.0072	NA	3.10E-01	N/A	2.32E-02	0.0072	Not Volatile		N/A	N/A	N/A	2.32E-02
Vanadium	0.0761	NA	1.55E+02	N/A	4.91E-04	0.0761	Not Volatile		N/A	N/A	N/A	4.91E-04
									Cumulative Risks		1.7E-06	1.5E-01

Notes:
--- = Not a COPC
C = Carcinogenic
COPC = Chemical of potential concern
mg/L = Milligrams per liter
N/A = Not applicable
NA = Not available
NC = Non-carcinogenic
NOC = Not of concern since calculated target concentration exceeds water solubility

FIGURES



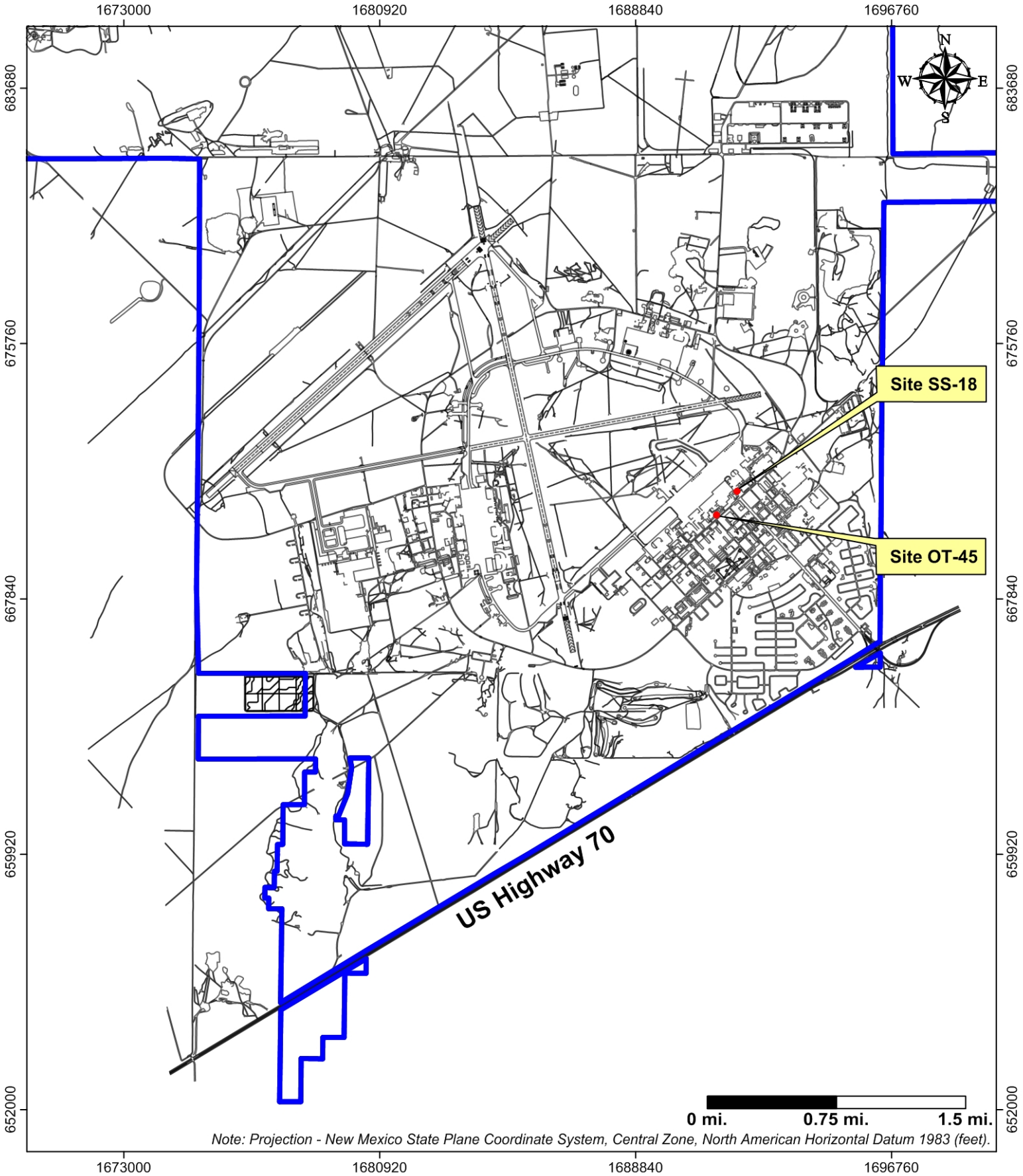
NATIONVIEW

Holloman Air Force Base, New Mexico Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 18 mi.	11/15/2012	dtm
			DRAWING NO. Fig. 2-1

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-1



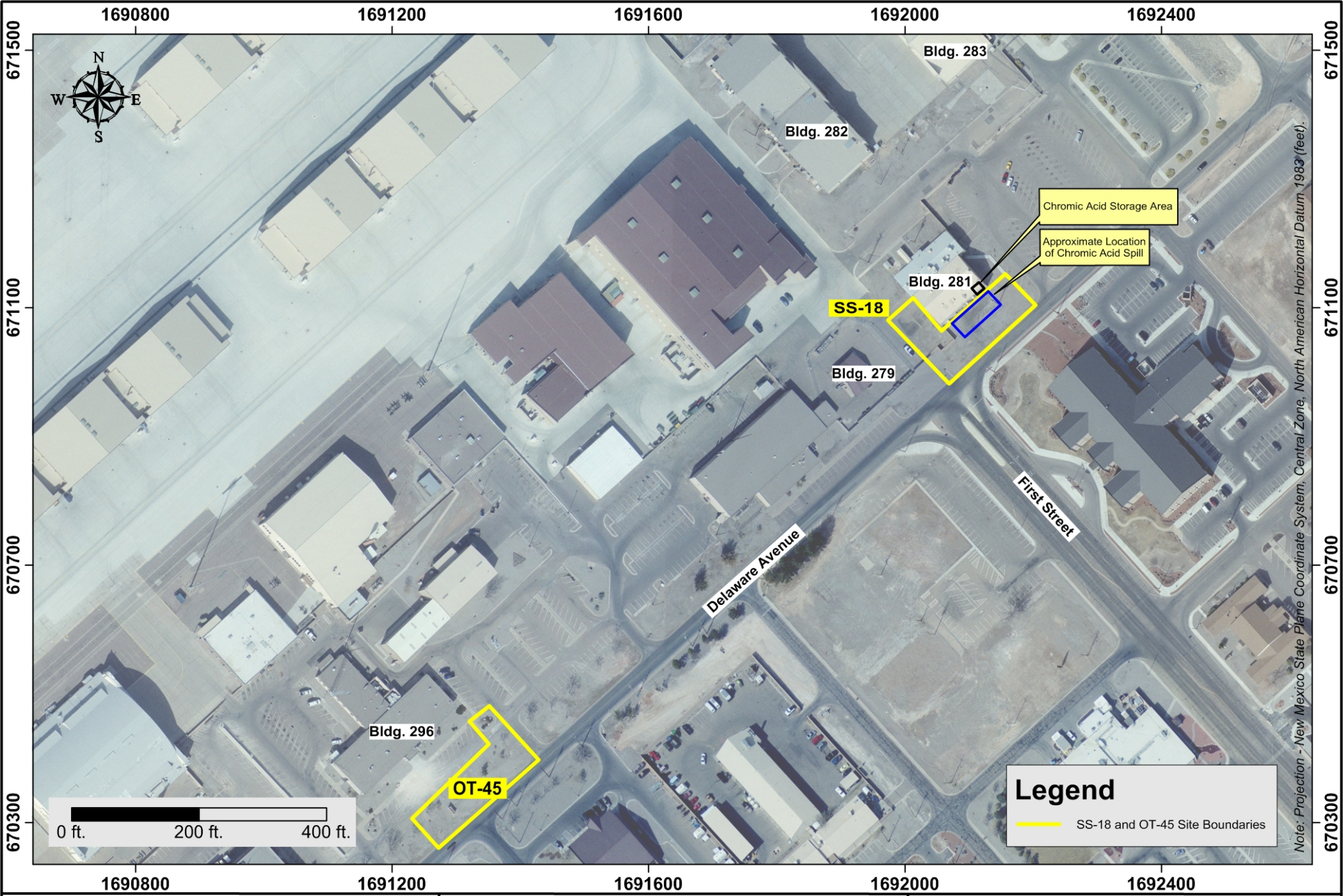
NATIONVIEW

SS-18
Site Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = .75 mi.	10/30/2012	dtm
			DRAWING NO. Fig. 2-2

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-2



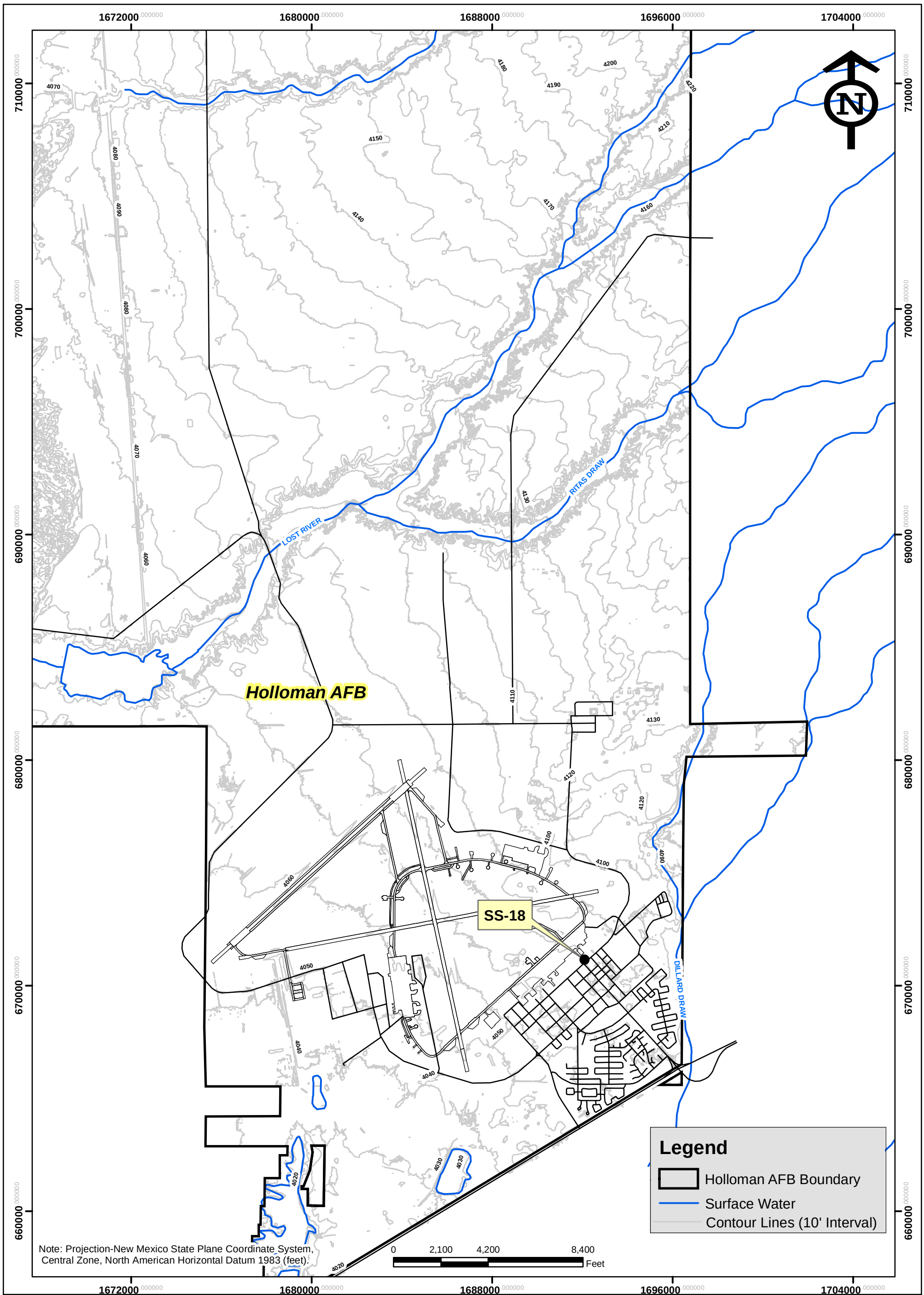
NATIONVIEW

SS-18
Site Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 200 ft.	10/30/2012	dtm
			DRAWING NO: Fig. 2-3

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-3



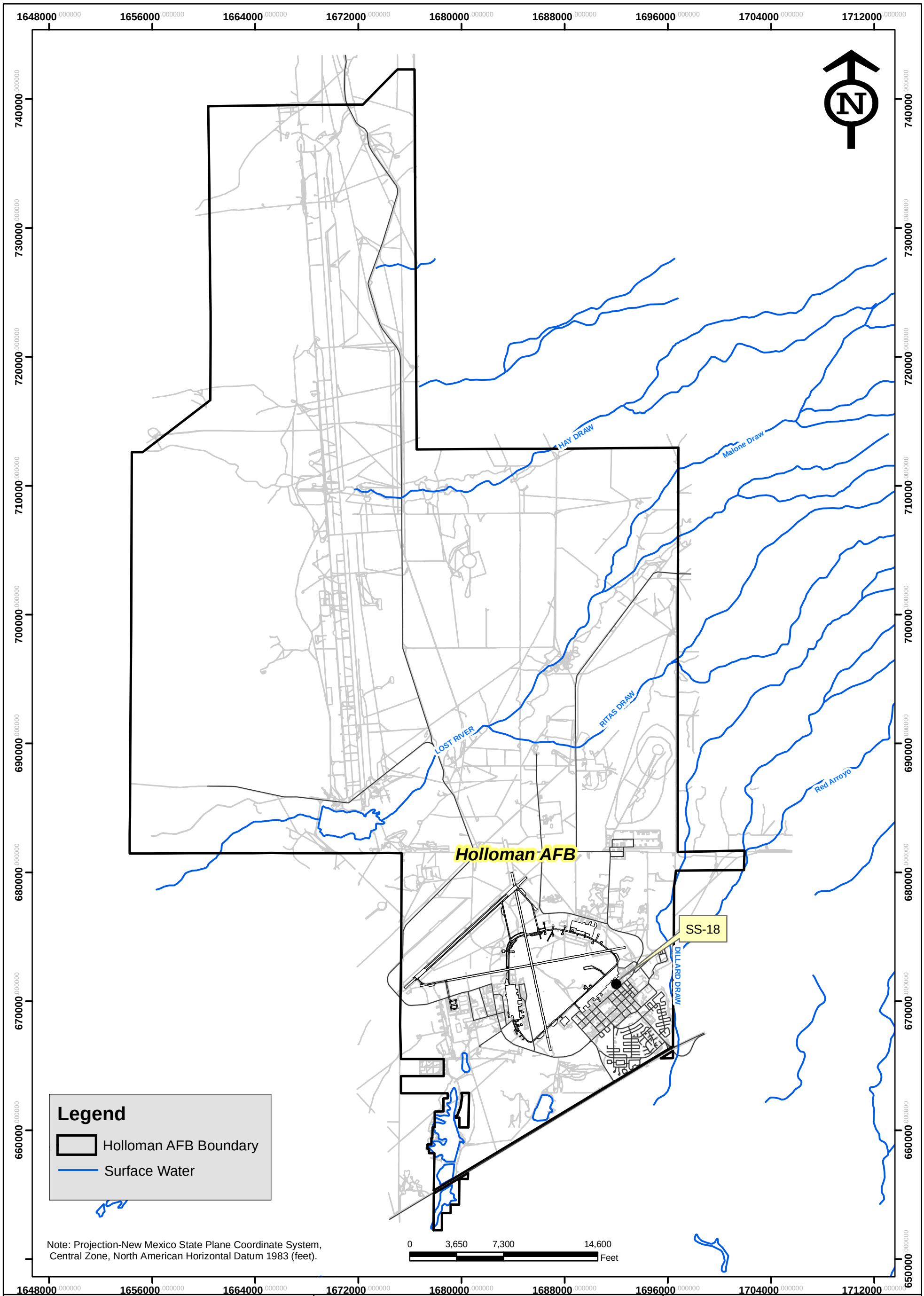
NATIONVIEW

Topographic Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
11-0020	1"=4000'	11/16/12	DRAWING NO: Figure 3-1

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-1



NATIONVIEW

Surface Drainages
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
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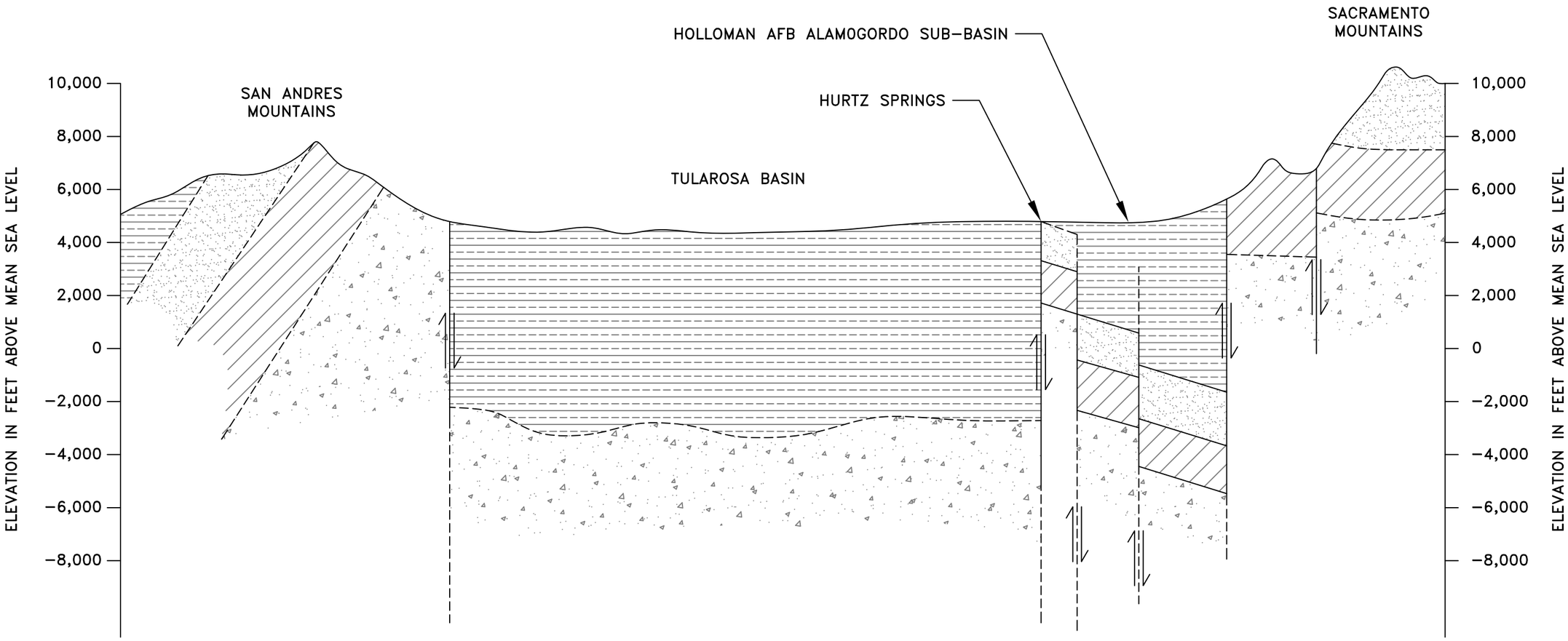
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-2



LEGEND:

- CENOZOIC ALLUVIUM AND LAKE DEPOSITS
- SEDIMENTARY ROCK OF PERMIAN AGE
- SEDIMENTARY ROCKS OF CAMBRIAN, ORDOVICIAN, SILURIAN, DEVONIAN, MISSISSIPPIAN AND PENNSYLVANIAN AGE
- INTRUSIVE ROCKS OF TERTIARY, CRETACEOUS OR PRECAMBRIAN AGE
- FAULT, ARROWS INDICATE RELATIVE MOVEMENT

0 5 10
SCALE IN MILES:

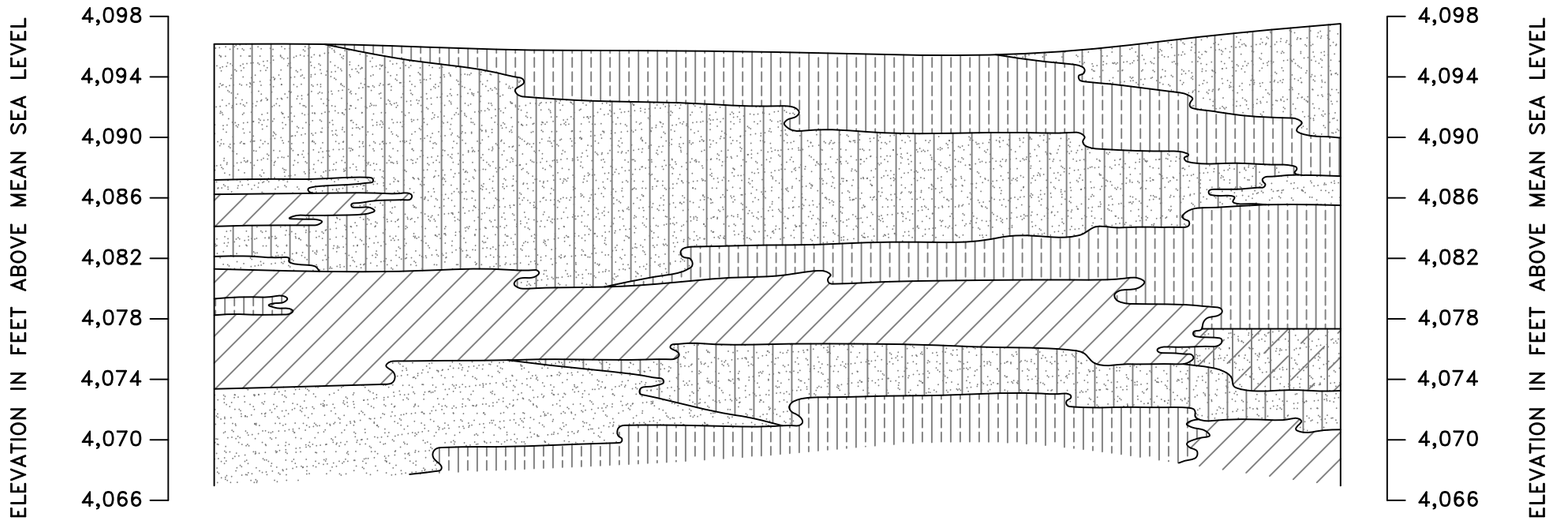
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico
Figure 3-3

GENERALIZED GEOLOGIC CROSS SECTION
OF THE TULAROSA BASIN

Source: Radian, 1992.

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	SHOWN	8/28/12	MRM	Figure 3-3

NATIONVIEW



LEGEND:

- CL AND CH – CLAY
- ML AND MH – SILT
- SM – SILTY SAND
- SM–SC – SILTY, CLAYEY SAND
- SP – SAND

0' 100' 200'
SCALE IN FEET:

SS–18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

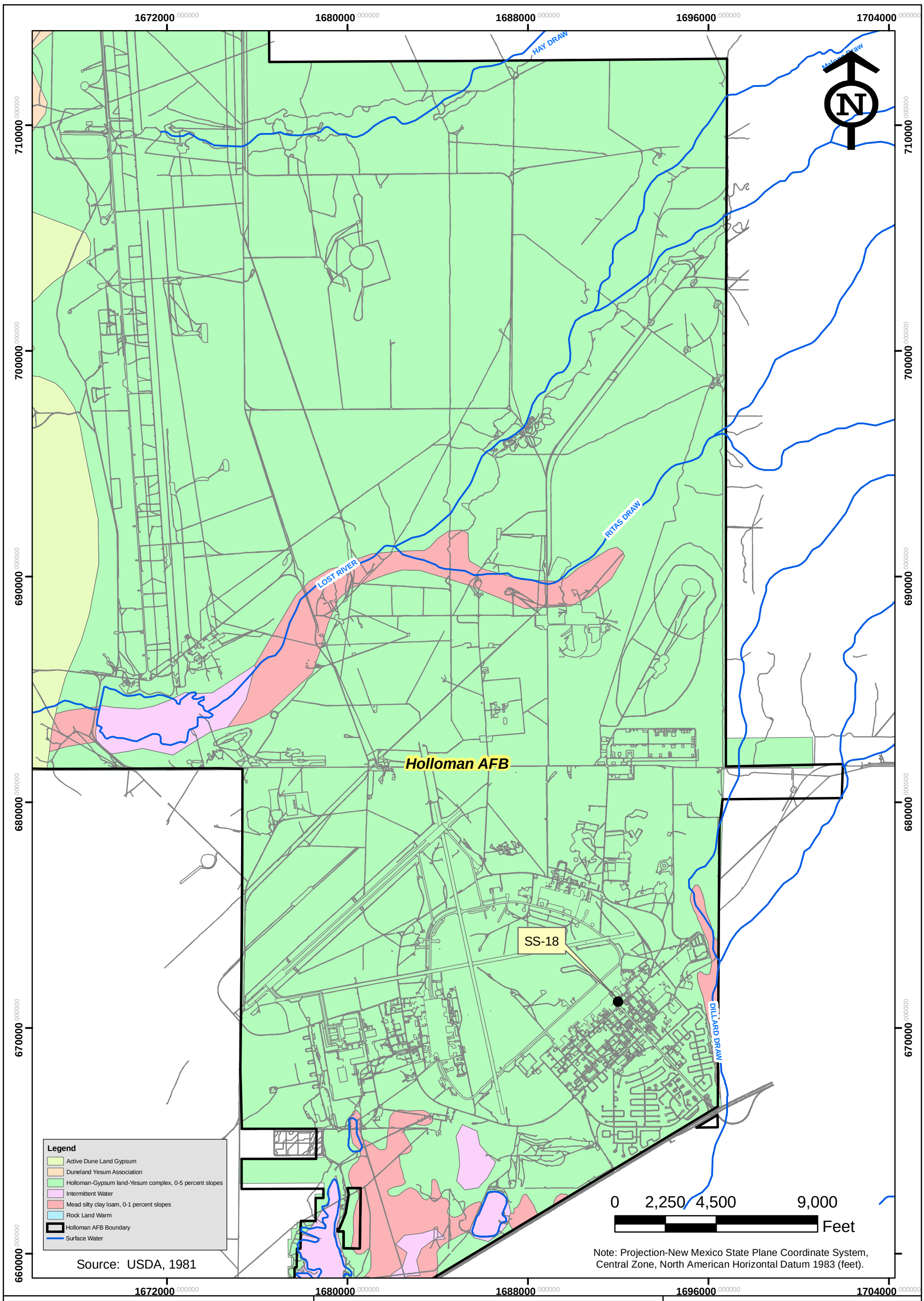
Figure 3–4

GENERALIZED NEAR–SURFACE GEOLOGIC CROSS SECTION FOR HOLLOMAN AFB

Source: Radian, 1992.

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11–0020	SHOWN	8/28/12	MRM	Figure 3–4

NATIONVIEW



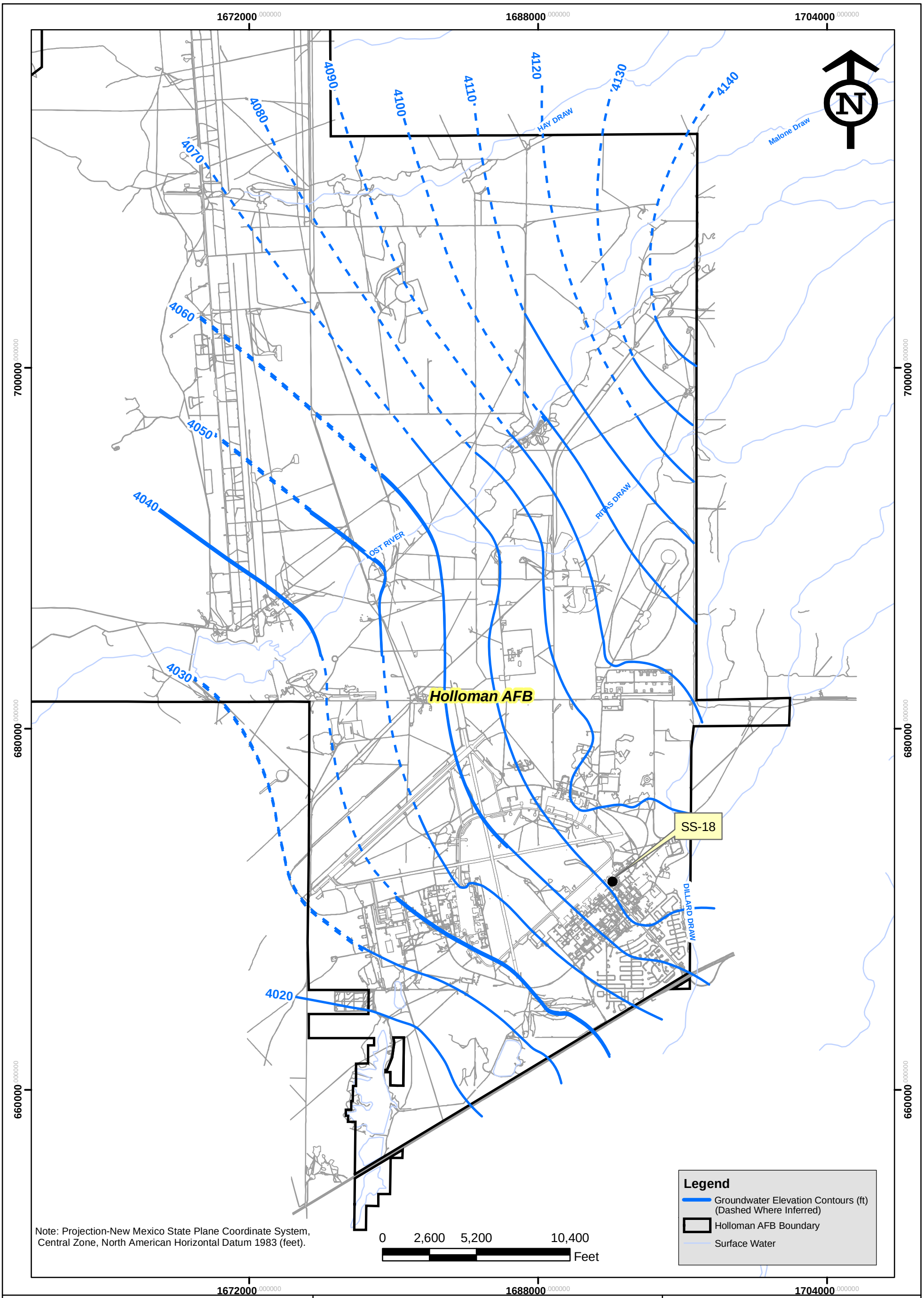
NATIONVIEW

Soil Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
11-0020	1"=4000'	9/4/12	DRAWING NO: Figure 3-5

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, NM

Figure 3-5



Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

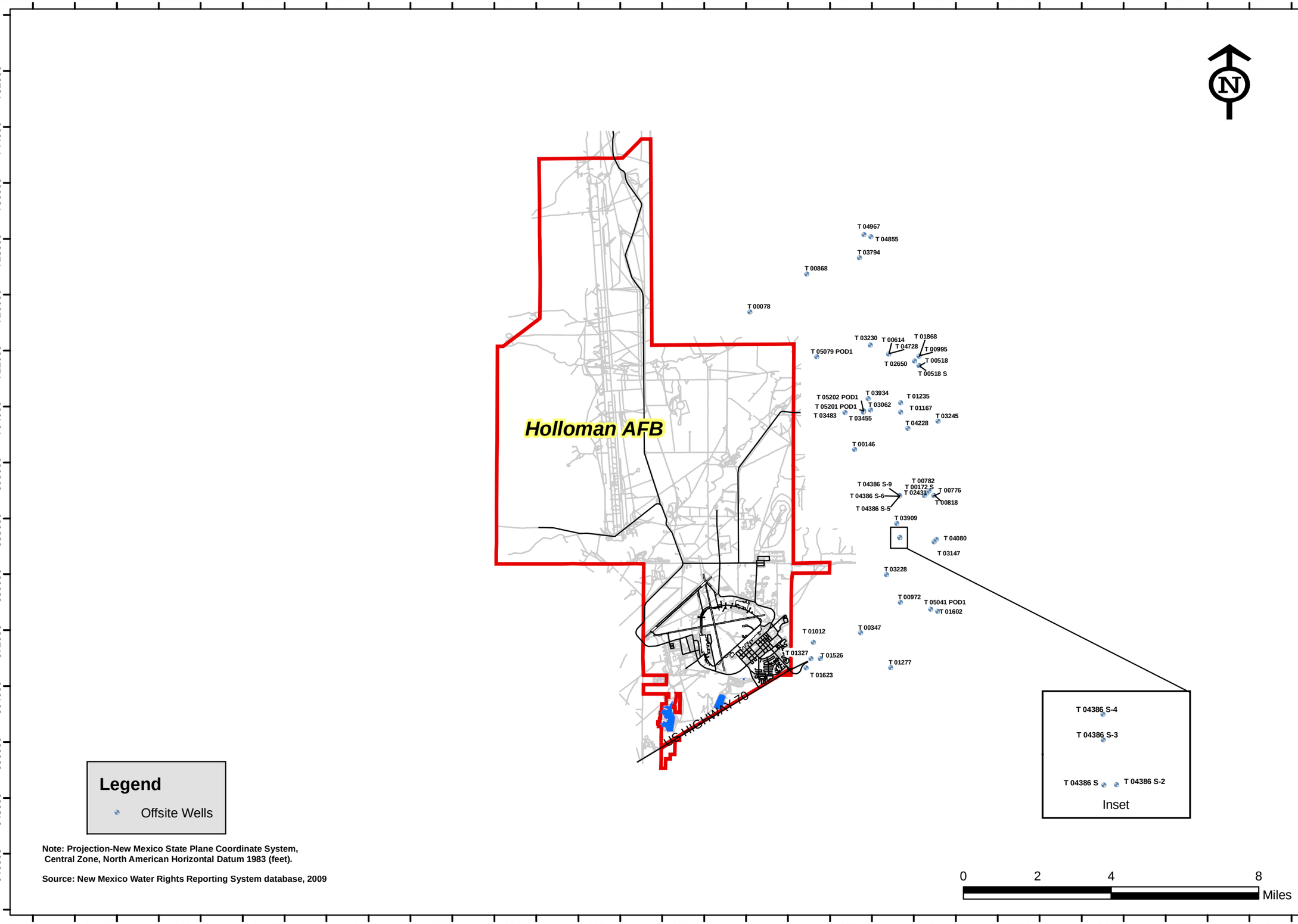
NATIONVIEW

Groundwater Contour Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1"=5000'	9/4/12	cm
			DRAWING NO: Figure 3-6

SS-18
Accelerated Corrective Measures
Completion Reportt
Holloman AFB, New Mexico

Figure 3-6



Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

Source: New Mexico Water Rights Reporting System database, 2009

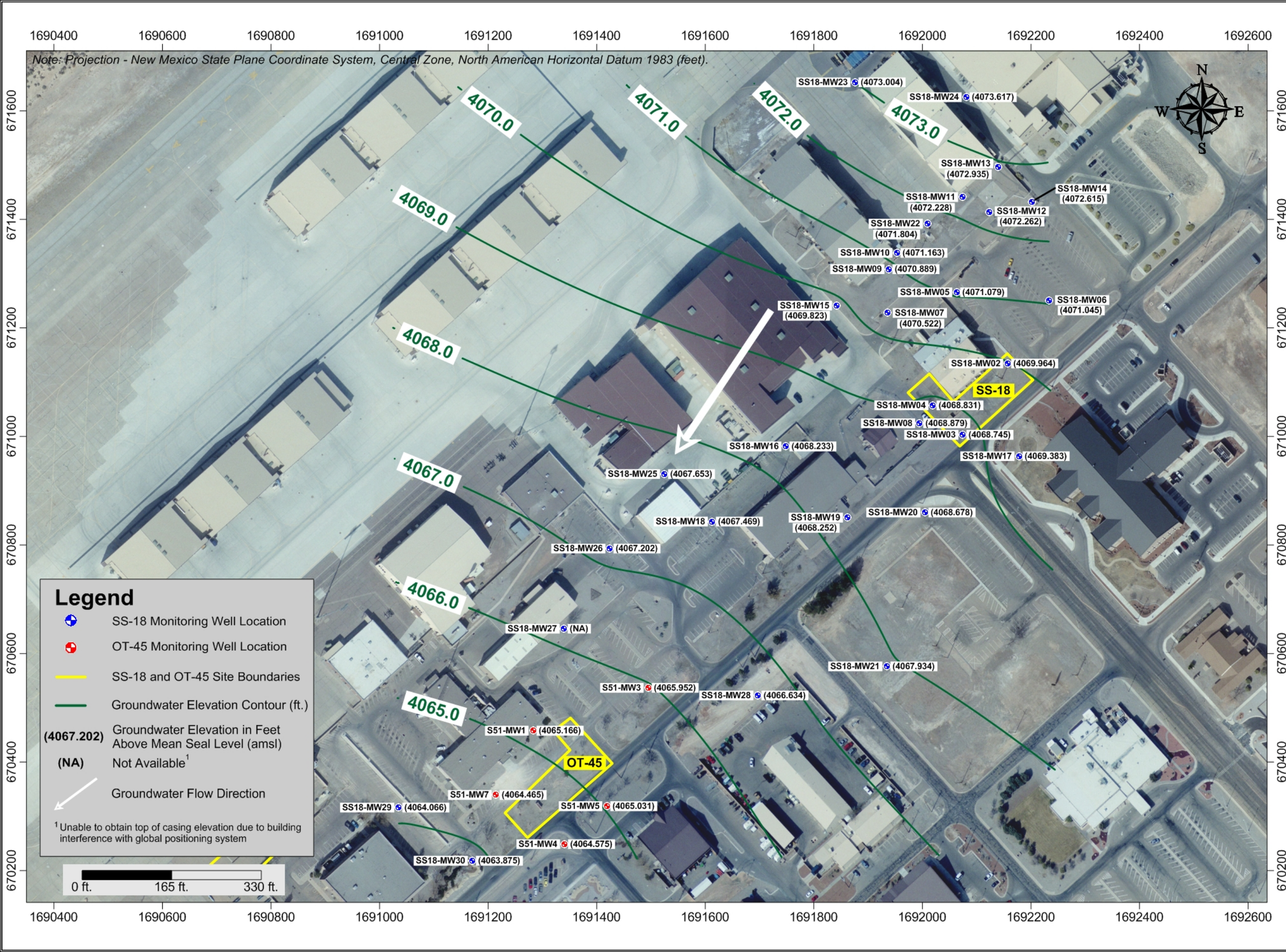
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-7

Groundwater Wells Located Within a 4-Mile Radius of Holloman AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	Shown	9/4/12	cm	Figure 3-7

NATIONVIEW



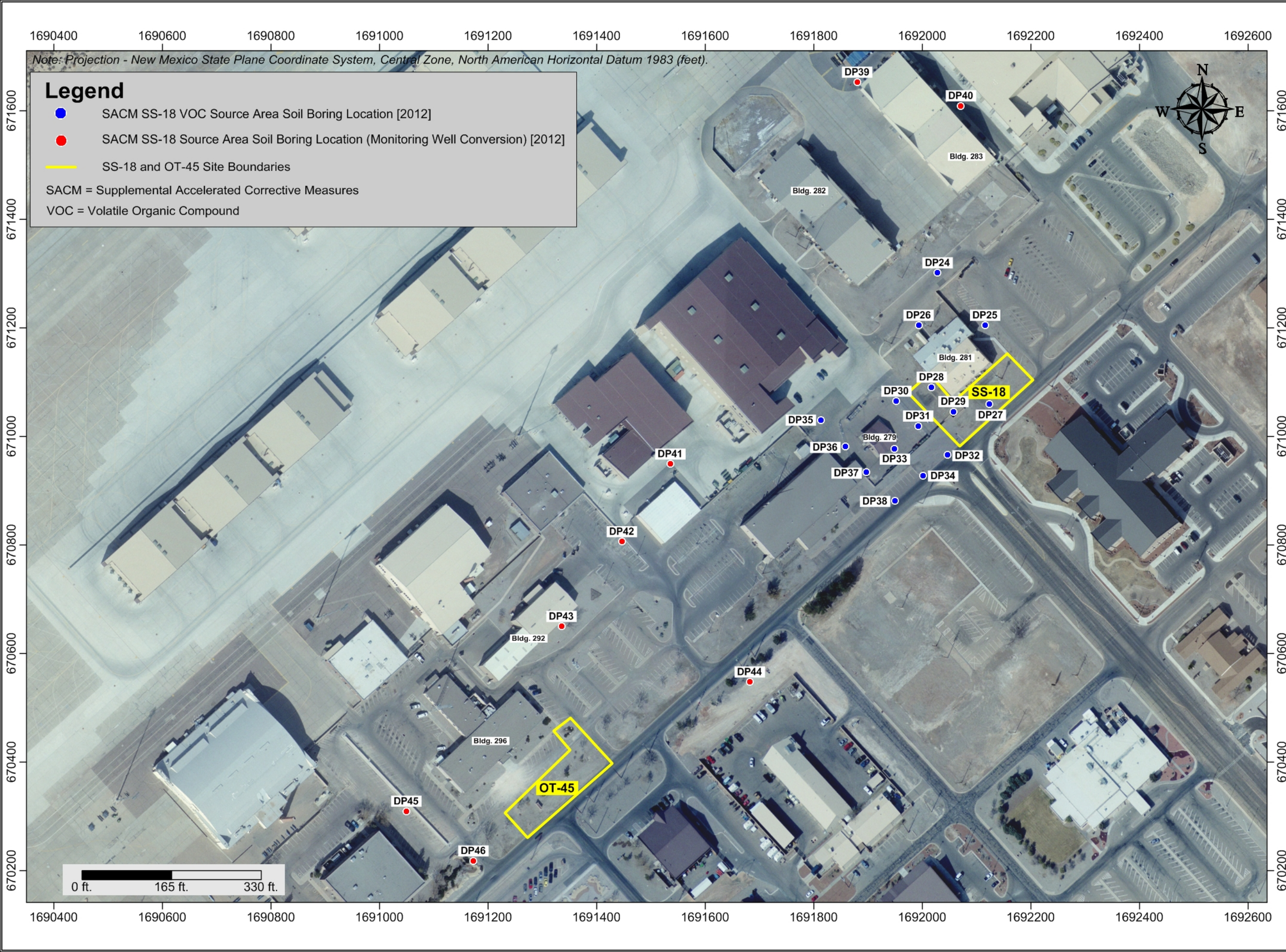
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-8

SS-18
Potentiometric Surface Map
(August 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	03/20/2013	dtm	Fig. 3-8

NATIONVIEW



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 5-1

Supplemental Accelerated Corrective Measures Soil Boring Locations (2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	10/30/2012	dtm	Fig. 5-1

NATIONVIEW

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 5-2

SS-18
Supplemental Accelerated Corrective Measures
Monitoring Well Locations (2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	10/30/2012	dtm	Fig. 5-2

NATIONVIEW

Note: Projection - North American Datum (NAD), 1983, Universal Tranverse Mercator (UTM) Zone 13 North (meters).

Legend

- Soil Boring Location Containing Exceedences
- Soil Boring Location Not Containing Exceedences
- SS-18, OT-44, and OT-45 Site Boundaries

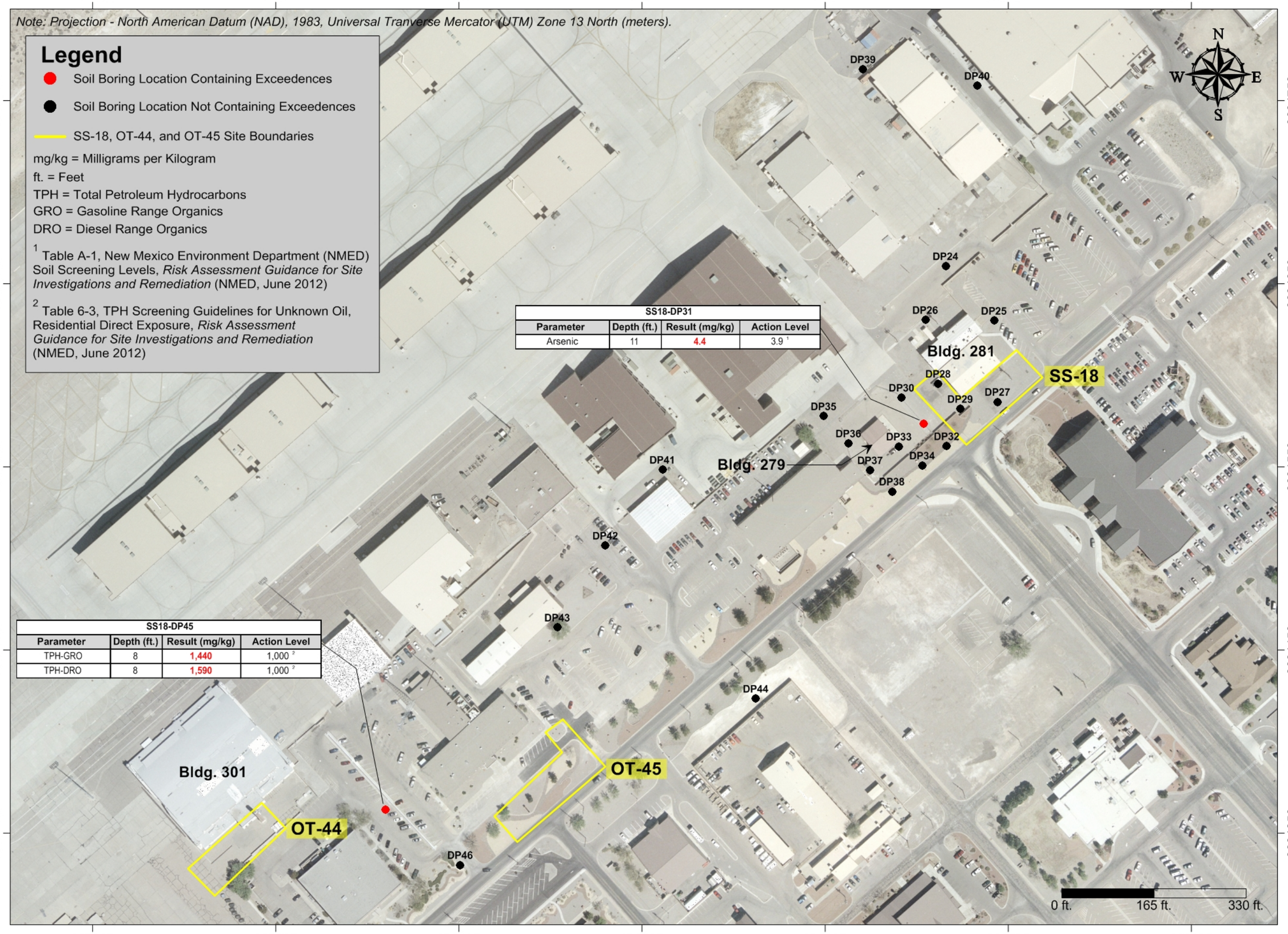
mg/kg = Milligrams per Kilogram
ft. = Feet
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics

[1] Table A-1, New Mexico Environment Department (NMED) Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)

[2] Table 6-3, TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)

SS18-DP31			
Parameter	Depth (ft.)	Result (mg/kg)	Action Level
Arsenic	11	4.4	3.9 [1]

SS18-DP45			
Parameter	Depth (ft.)	Result (mg/kg)	Action Level
TPH-GRO	8	1,440	1,000 [2]
TPH-DRO	8	1,590	1,000 [2]



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-1

SS-18
Soil Analytical Exceedences (August 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	03/20/2013	dtm	Fig. 7-1

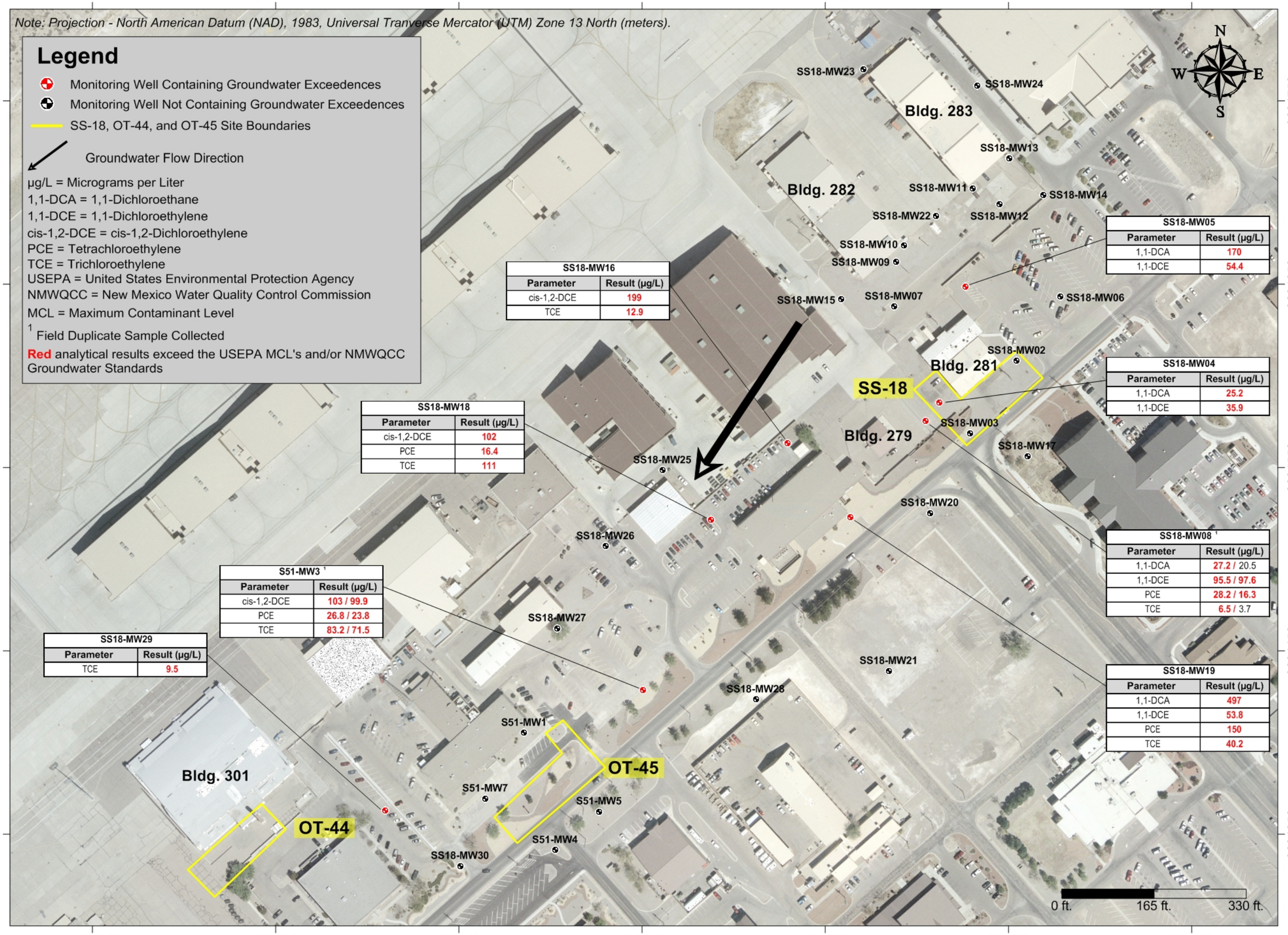
NATIONVIEW

Note: Projection - North American Datum (NAD), 1983, Universal Tranverse Mercator (UTM) Zone 13 North (meters).

Legend

- Monitoring Well Containing Groundwater Exceedences
- Monitoring Well Not Containing Groundwater Exceedences
- SS-18, OT-44, and OT-45 Site Boundaries
- Groundwater Flow Direction

µg/L = Micrograms per Liter
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
PCE = Tetrachloroethylene
TCE = Trichloroethylene
USEPA = United States Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] Field Duplicate Sample Collected
Red analytical results exceed the USEPA MCL's and/or NMWQCC Groundwater Standards



SS18-MW16	
Parameter	Result (µg/L)
cis-1,2-DCE	199
TCE	12.9

SS18-MW05	
Parameter	Result (µg/L)
1,1-DCA	170
1,1-DCE	54.4

SS18-MW04	
Parameter	Result (µg/L)
1,1-DCA	25.2
1,1-DCE	35.9

SS18-MW18	
Parameter	Result (µg/L)
cis-1,2-DCE	102
PCE	16.4
TCE	111

S51-MW3 [1]	
Parameter	Result (µg/L)
cis-1,2-DCE	103 / 99.9
PCE	26.8 / 23.8
TCE	83.2 / 71.5

SS18-MW29	
Parameter	Result (µg/L)
TCE	9.5

SS18-MW08 [1]	
Parameter	Result (µg/L)
1,1-DCA	27.2 / 20.5
1,1-DCE	95.5 / 97.6
PCE	28.2 / 16.3
TCE	6.5 / 3.7

SS18-MW19	
Parameter	Result (µg/L)
1,1-DCA	497
1,1-DCE	53.8
PCE	150
TCE	40.2

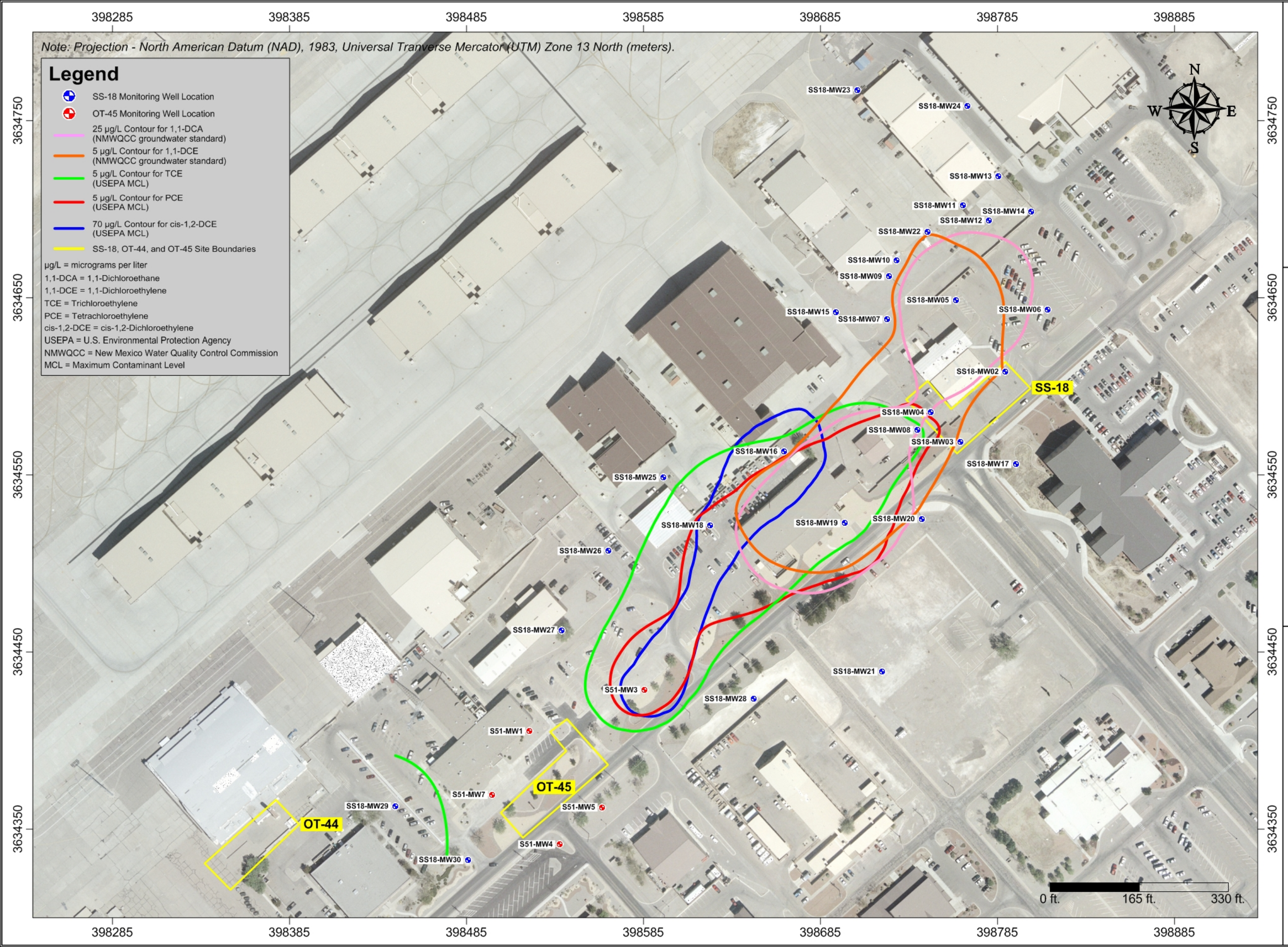
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-2

SS-18
Groundwater Analytical Exceedences Organics (September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	03/20/2013	dtm	Fig. 7-2

NATIONVIEW



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

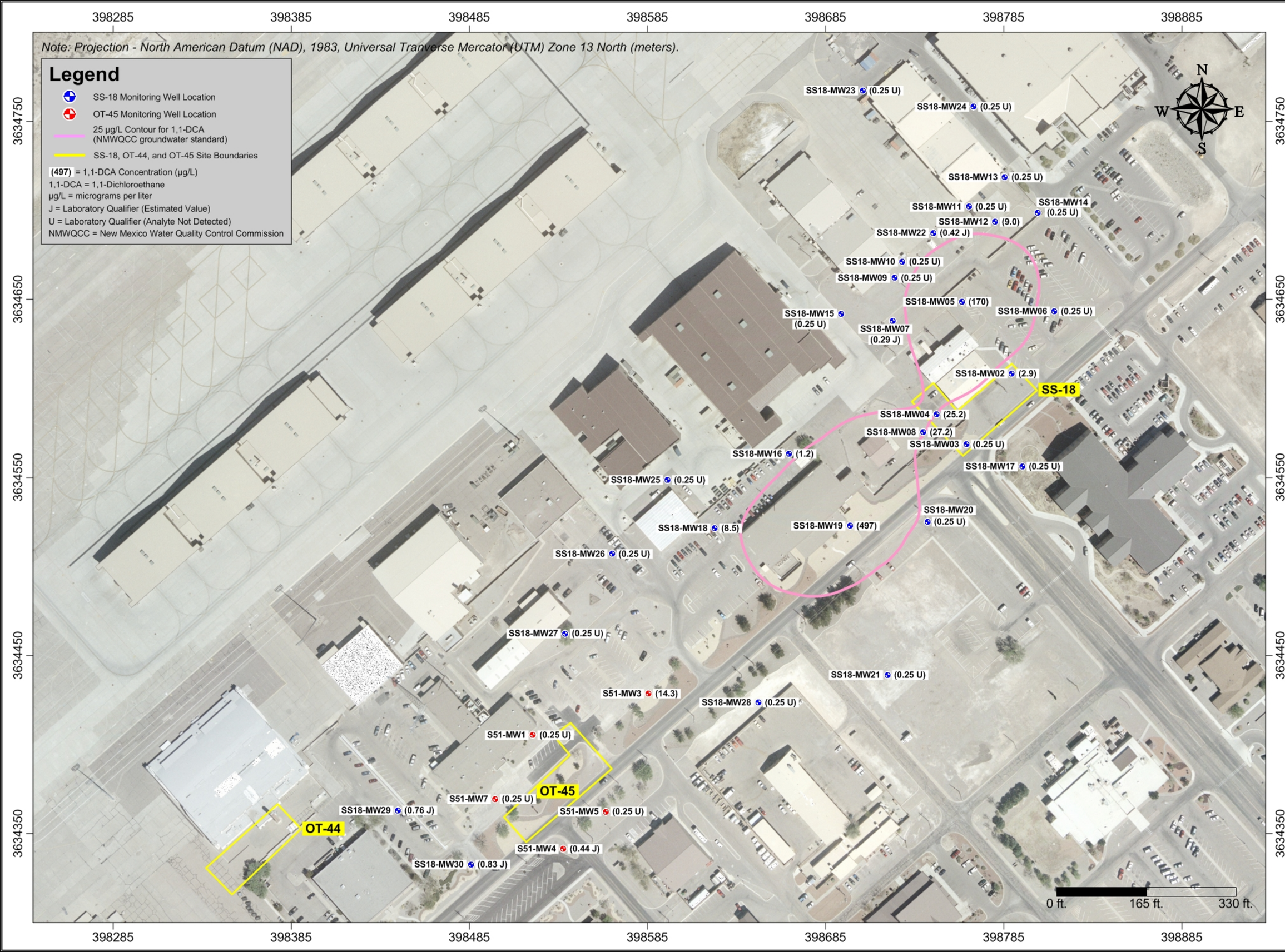
Figure 7-3

SS-18 / OT-45
VOC (1,1-DCA, 1,1-DCE, TCE, PCE, and cis-1,2-DCE)
Groundwater Action Level Isoconcentration Map
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 165'	03/20/2013	dtm

DRAWING NO: Fig. 7-3

NATIONVIEW



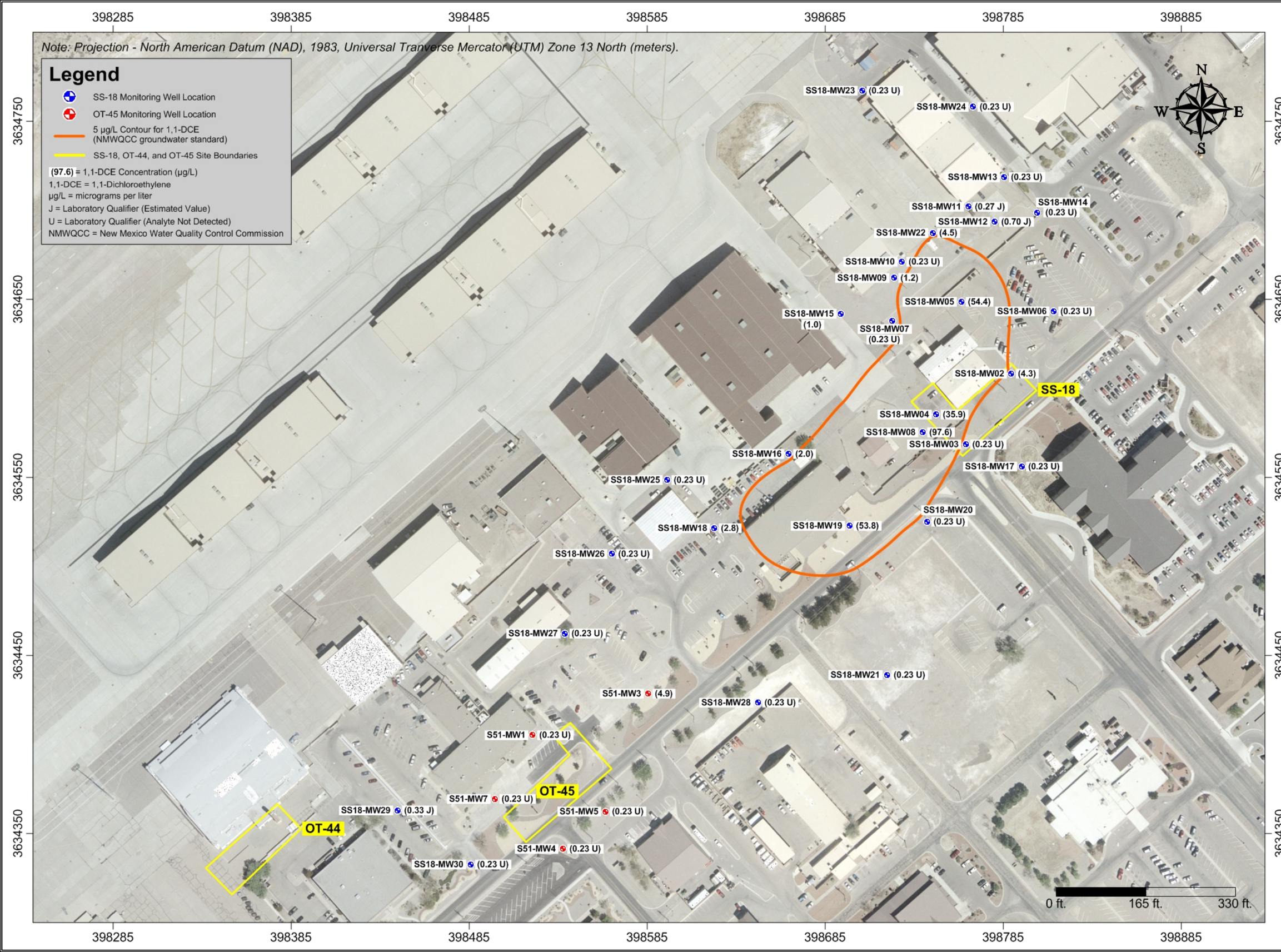
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-4

SS-18 / OT-45
1,1-DCA Groundwater Action Level
Isoconcentration Map
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	04/01/2013	dtm	Fig. 7-4

NATIONVIEW



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

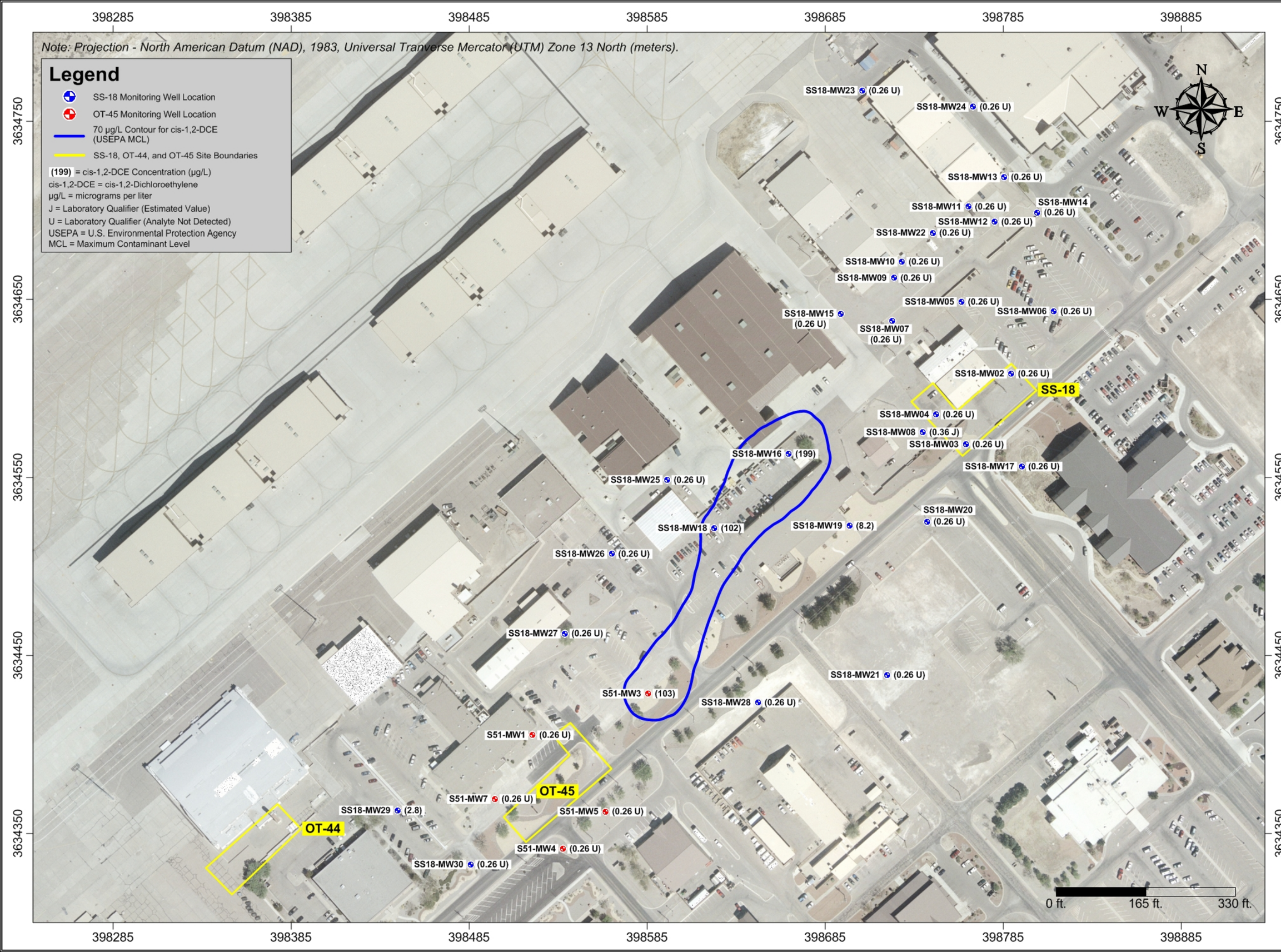
Figure 7-5

SS-18 / OT-45
1,1-DCE Groundwater Action Level
Isoconcentration Map
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 165'	04/01/2013	dtm

DRAWING NO: Fig. 7-5

NATIONVIEW



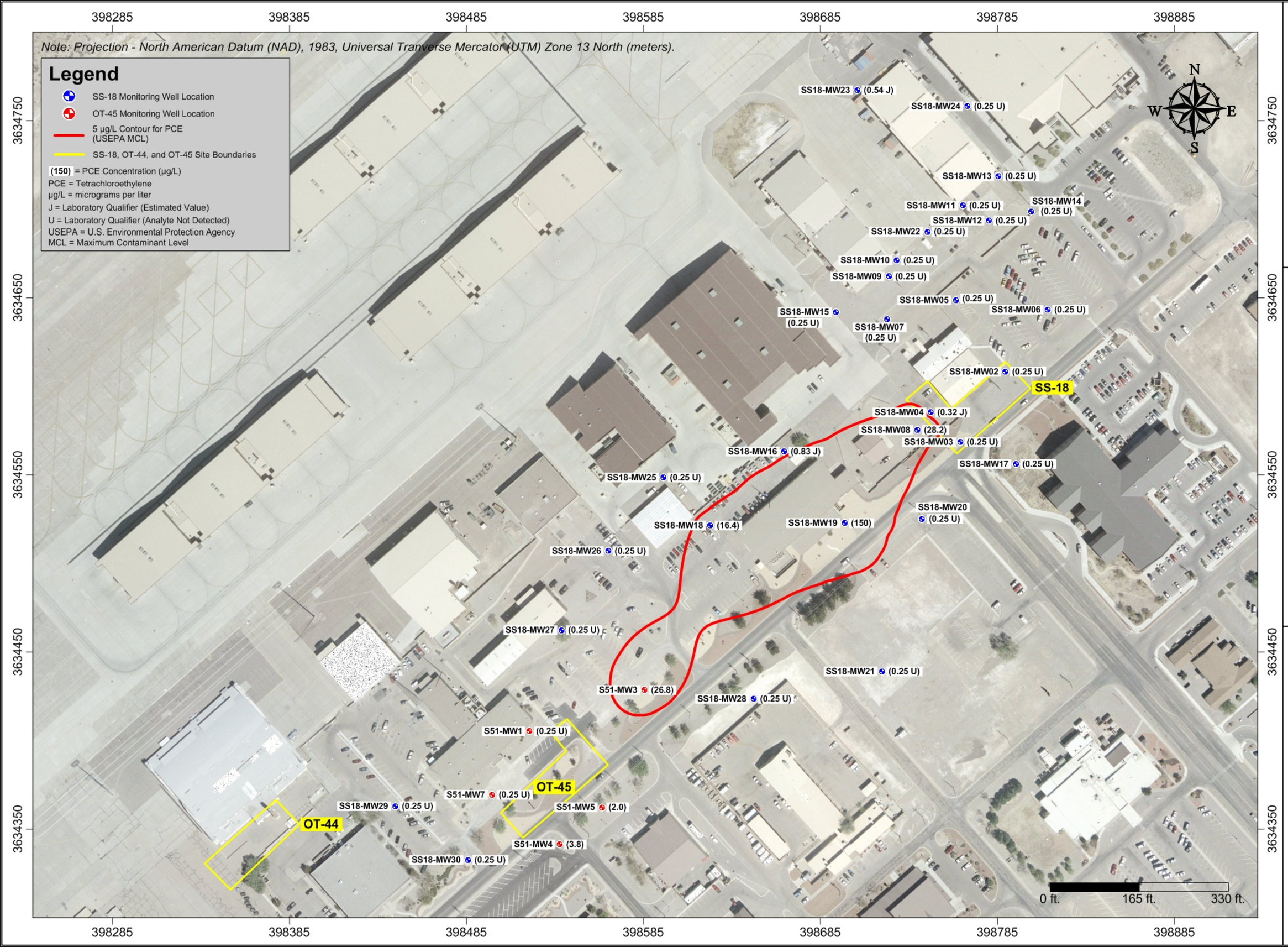
SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-6

SS-18 / OT-45
cis-1,2-DCE Groundwater Action Level
Isoconcentration Map
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	03/20/2013	dtm	Fig. 7-6

NATIONVIEW



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

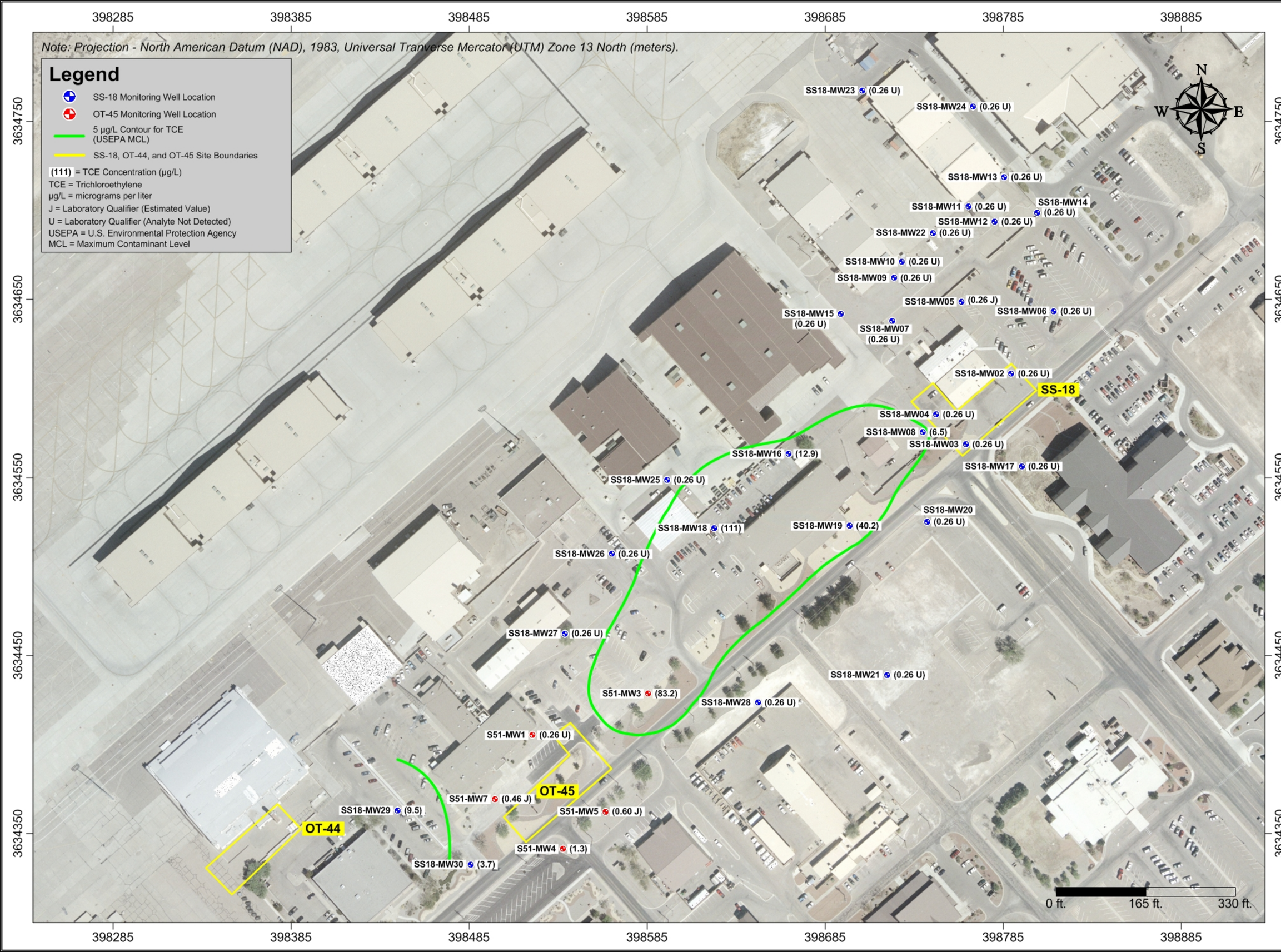
Figure 7-7

SS-18 / OT-45
PCE Groundwater Action Level Isoconcentration Map (September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 165'	04/01/2013	dtm

DRAWING NO: Fig. 7-7

NATIONVIEW



SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-8

SS-18 / OT-45
TCE Groundwater Action Level
Isoconcentration Map
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 165'	03/20/2013	dtm

DRAWING NO: Fig. 7-8

NATIONVIEW

Note: Projection - North American Datum (NAD), 1983, Universal Tranverse Mercator (UTM) Zone 13 North (meters).

398285 398385 398485 398585 398685 398785 398885

3634750 3634650 3634550 3634450 3634350

Legend

- Monitoring Well Containing Groundwater Exceedences
- Monitoring Well Not Containing Groundwater Exceedences
- SS-18, OT-44, and OT-45 Site Boundaries
- Groundwater Flow Direction

µg/L = Micrograms per Liter
J = Laboratory Qualifier (Estimated Value)
U = Laboratory Qualifier (Analyte Not Detected)
USEPA = United States Environmental Protection Agency
NMWQCC = New Mexico Water Quality Control Commission
MCL = Maximum Contaminant Level
[1] Field Duplicate Sample Collected
Red analytical results exceed the USEPA MCL's, USEPA Secondary MCLs, and/or NMWQCC Groundwater Standards

N W E S

SS18-MW24

SS-18

SS18-MW17

OT-45

OT-44

SS18-MW10	
Parameter	Result (µg/L)
Aluminum	58.5 J
Arsenic	15.4
Manganese	63.3

SS18-MW09	
Parameter	Result (µg/L)
Aluminum	51.3 J
Arsenic	10.3
Manganese	77.7

SS18-MW15	
Parameter	Result (µg/L)
Aluminum	64.2 J
Arsenic	17.8

SS18-MW07	
Parameter	Result (µg/L)
Aluminum	74.4 J
Manganese	83.0

SS18-MW16	
Parameter	Result (µg/L)
Arsenic	25.2
Manganese	373

SS18-MW23	
Parameter	Result (µg/L)
Manganese	81.6

SS18-MW13	
Parameter	Result (µg/L)
Arsenic	14.1

SS18-MW11	
Parameter	Result (µg/L)
Aluminum	55.3 J

SS18-MW14	
Parameter	Result (µg/L)
Aluminum	55.7 J

SS18-MW12	
Parameter	Result (µg/L)
Aluminum	58.5 J
Arsenic	21.0
Manganese	583

SS18-MW22 [1]	
Parameter	Result (µg/L)
Arsenic	14.9 / 14.4

SS18-MW06	
Parameter	Result (µg/L)
Arsenic	19.6

SS18-MW05	
Parameter	Result (µg/L)
Arsenic	11.4

SS18-MW02	
Parameter	Result (µg/L)
Aluminum	68.1 J
Arsenic	13.3

SS18-MW04	
Parameter	Result (µg/L)
Arsenic	16.0

SS18-MW03	
Parameter	Result (µg/L)
Aluminum	72.2 J
Antimony	8.9 J
Arsenic	25.3
Thallium	4.6 J

SS18-MW08 [1]	
Parameter	Result (µg/L)
Aluminum	73.5 J / 25 U
Antimony	6.7 / 2 U
Arsenic	18.0 / 21.7

SS18-MW20	
Parameter	Result (µg/L)
Aluminum	52.3 J
Antimony	8.7 J
Arsenic	18.0
Thallium	8.6 J

SS18-MW19	
Parameter	Result (µg/L)
Aluminum	73.6 J
Antimony	8.8 J
Manganese	171

SS18-MW21	
Parameter	Result (µg/L)
Aluminum	57.0 J
Arsenic	17.9

SS18-MW25	
Parameter	Result (µg/L)
Aluminum	151 J
Arsenic	18.7
Cobalt	90.0
Manganese	1,260

SS18-MW18	
Parameter	Result (µg/L)
Aluminum	55.1 J
Arsenic	15.8
Manganese	140

SS18-MW26	
Parameter	Result (µg/L)
Arsenic	33.4
Manganese	384

SS18-MW27	
Parameter	Result (µg/L)
Arsenic	11.3
Manganese	580
Thallium	2.1 J

S51-MW3 [1]	
Parameter	Result (µg/L)
Arsenic	25.6 / 28.4
Manganese	160 / 190

S51-MW1	
Parameter	Result (µg/L)
Arsenic	28.6
Manganese	621
Thallium	3.4 J

S51-MW7	
Parameter	Result (µg/L)
Arsenic	18.5
Manganese	131

SS18-MW29	
Parameter	Result (µg/L)
Aluminum	95.1 J
Manganese	1,430

SS18-MW30 [1]	
Parameter	Result (µg/L)
Arsenic	13.6 / 13.3
Manganese	849 / 896

S51-MW4	
Parameter	Result (µg/L)
Arsenic	15.6
Manganese	158

S51-MW5	
Parameter	Result (µg/L)
Arsenic	18.9
Manganese	362

SS18-MW28	
Parameter	Result (µg/L)
Arsenic	16.9
Manganese	111

0 ft. 165 ft. 330 ft.

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-9

SS-18
Dissolved Target Analyte List Metals
Groundwater Analytical Exceedences
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
11-0020	1" = 165'	04/01/2013	dtm	Fig. 7-9

NATIONVIEW

Note: Projection - North American Datum (NAD), 1983, Universal Tranverse Mercator (UTM) Zone 13 North (meters).

Legend

- Monitoring Well Containing Groundwater Exceedences
- SS-18, OT-44, and OT-45 Site Boundaries
- Groundwater Flow Direction

mg/L = Milligrams per Liter

TDS = Total Dissolved Solids

USEPA = United States Environmental Protection Agency

[1] Field Duplicate Sample Collected

Red analytical results exceed the USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)

SS18-MW23	
Parameter	Result (mg/L)
TDS	6,580

SS18-MW24	
Parameter	Result (mg/L)
TDS	2,720

SS18-MW13	
Parameter	Result (mg/L)
TDS	4,710

SS18-MW10	
Parameter	Result (mg/L)
TDS	4,930

SS18-MW09	
Parameter	Result (mg/L)
TDS	6,180

SS18-MW15	
Parameter	Result (mg/L)
TDS	6,950

SS18-MW07	
Parameter	Result (mg/L)
TDS	3,510

SS18-MW16	
Parameter	Result (mg/L)
TDS	9,430

SS18-MW11	
Parameter	Result (mg/L)
TDS	2,990

SS18-MW14	
Parameter	Result (mg/L)
TDS	3,480

SS18-MW12	
Parameter	Result (mg/L)
TDS	3,500

SS18-MW22 [1]	
Parameter	Result (mg/L)
TDS	5,570 / 5,590

SS18-MW06	
Parameter	Result (mg/L)
TDS	3,390

SS18-MW05	
Parameter	Result (mg/L)
TDS	3,030

SS18-MW02	
Parameter	Result (mg/L)
TDS	3,980

SS18-MW04	
Parameter	Result (mg/L)
TDS	6,930

SS18-MW17	
Parameter	Result (mg/L)
TDS	4,940

SS18-MW03	
Parameter	Result (mg/L)
TDS	13,400

SS18-MW08 [1]	
Parameter	Result (mg/L)
TDS	13,600 / 19,200

SS18-MW20	
Parameter	Result (mg/L)
TDS	12,200

SS18-MW19	
Parameter	Result (mg/L)
TDS	6,390

SS18-MW25	
Parameter	Result (mg/L)
TDS	3,780

SS18-MW18	
Parameter	Result (mg/L)
TDS	5,800

SS18-MW26	
Parameter	Result (mg/L)
TDS	3,420

SS18-MW27	
Parameter	Result (mg/L)
TDS	3,820

S51-MW3 [1]	
Parameter	Result (mg/L)
TDS	12,500 / 12,300

S51-MW1	
Parameter	Result (mg/L)
TDS	3,290

S51-MW7	
Parameter	Result (mg/L)
TDS	5,860

SS18-MW29	
Parameter	Result (mg/L)
TDS	3,640

SS18-MW21	
Parameter	Result (mg/L)
TDS	5,800

SS18-MW30 [1]	
Parameter	Result (mg/L)
TDS	20,600 / 20,400

S51-MW4	
Parameter	Result (mg/L)
TDS	11,600

S51-MW5	
Parameter	Result (mg/L)
TDS	6,420

SS18-MW28	
Parameter	Result (mg/L)
TDS	6,400

SS-18

OT-45

OT-44

398285 398385 398485 398585 398685 398785 398885

3634750 3634650 3634550 3634450 3634350

0 ft. 165 ft. 330 ft.

SS-18
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 7-10

Total Dissolved Solids
Groundwater Analytical Exceedences
(September 2012)

PROJECT NO.	SCALE	DATE	DRAWN BY:
11-0020	1" = 165'	03/28/2013	dtm

DRAWING NO: Fig. 7-10

NATIONVIEW

ATTACHMENT A

NMED CORRESPONDENCE

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 476-6000
Fax (505) 476-6030
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

CINDY PADILLA
SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

April 24, 2007

Debbie Hartell, Chief
Environmental Flight
49th CES/CEV
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: NOTICE OF APPROVAL
ACCELERATED CORRECTIVE MEASURES WORK PLAN, MULTIPLE SITES, NOVEMBER 2006
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-07-001

Dear Ms. Hartell:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (The Permittee) April 3, 2007 response to NMED's March 30, 2007 Notice of Deficiency (NOD) for the Accelerated Corrective Measures Work Plan for Multiple Sites, dated November 2006.

The NMED hereby concurs with the responses and approves the Work Plan for implementation. The Permittee is now required to submit the changed pages and figures, as indicated in the responses, for incorporation into the Work Plan. In addition, the Permittee is advised that, for future responses to NODs, all revised text and figures must be submitted with the response table.

If you have any questions regarding this letter, please contact Mr. David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: J. Bearzi, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
D. Tellez, EPA Region 6 (6PD-F)
File: HAFB 2007 and Reading
HWB-HAFB-07-001

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

JAMES H. DAVIS, Ph.D.
Director
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 13, 2012

A. David Budak
Deputy Base Civil Engineer
49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: APPROVAL
ACCELERATED CORRECTIVE MEASURES COMPLETION REPORT,
SITES OT-03 AND OT-45, NOVEMBER 2008
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HWB-HAFB-08-010

Dear Mr. Budak:

The New Mexico Environment Department (NMED) has reviewed Holloman Air Force Base's (the Permittee's) *Accelerated Corrective Measures Completion Report, OT-03* (SWMU-114) *and OT-45* (AOC-O) which was received on December 18, 2008. The subject *Report* is hereby approved. NMED therefore issues a Certificate of Completion for Corrective Action Complete (CAC) Without Controls for SWMU-114 and AOC-O.

The Permittee may initiate a Class 3 Permit Modification Request (PMR) for CAC for these sites in accordance with 40 C.F.R. §270.42(c). The Class 3 PMR includes requirements for public notice and for providing opportunity for public comments that are mandatory. NMED's determination that corrective action is complete is subject to NMED's reservation of rights for new information or unknown conditions. As part of the PMR process, new information may become available during the public comment period that a previously issued Certificate of Completion for a given site is not protective of human health or the environment. NMED

reserves all rights against the Permittee, and may withdraw a previously issued Certificate of Completion for any site where new information indicates that further corrective action is needed to protect human health and the environment.

If you have any questions regarding this matter, please contact David Strasser at (505) 222-9526.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
B. Hunt, HAFB
C. Hendrickson, EPA, Region 6 (6PD-F)
File: HAFB 2012 and Reading
HAFB-08-010

State of New Mexico
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SECRETARY

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2007

Ms. Debbie Hartell
Chief
Environmental Flight
49 CES/CEV
550 Tabosa Ave.
Holloman AFB, NM 88330-8458

RE: NOTICE OF DEFICIENCY: ACCELERATED CORRECTIVE MEASURES WORK PLAN, MULTIPLE SITES, NOVEMBER 2006
HOLLOMAN AIR FORCE BASE, NM6572124422
HAFB-07-001

Dear Ms. Hartell:

The New Mexico Environment Department (NMED) has reviewed the November 2006 *Accelerated Corrective Measures Work Plan, Multiple Sites* (Work Plan) addressing the following Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) at Holloman AFB (the Permittee): SWMU 114 (OT-03), SWMU 113A (OT-20), SWMU PRI-A (OT-32), SWMU PRI-2/5 (OT-35), SWMU 137 (SS-38), AOC-O (OT-45), AOC-R (SS-06), AOC-K (SS-12), AOC-H (SS-18), SWMU 111 (RW-42) and AOC-L (OT-37). The Permittee must address the following deficiencies before NMED can make a final determination regarding approval of the Work Plan.

1. **Page 1-1, Section 1, Introduction, 2nd Paragraph, Last Sentence**

This sentence references Environmental Restoration Program (ERP) site number OT-38. Table A of the Permit (List of SWMUs Requiring Corrective Action) shows the ERP number for this site as SS-38 (SWMU 137). The Permittee must clarify this discrepancy.

2. **Page 3-2, Section 3.1.1, OT-20 Sewage Lagoon Disposal Trenches**

This section states that additional characterization activities at ERP site number OT-20 (SWMU 113A) would include trenching activities, the installation of up to nine soil borings, and the installation of three monitoring wells as shown on Figure 3-1. During NMED's March 8, 2007 site inspection it was agreed that the proposed trenching was not required. Rather, a minimum of three additional exploratory soil borings would be advanced to more accurately define the eastern boundary of the source areas prior to excavation. Soils shall be analyzed as proposed. The installation of the three monitoring wells and ground water sampling and analysis is also required as proposed.

The Permittee is therefore required to submit an amendment to the work plan for this site that shows the anticipated boundary of the source areas and the locations and proposed depths of the new borings.

3. **Page 3-6, Section 3.1.4.1, OT-45 DPT Soil Borings**

This section states that additional characterization activities at ERP site number OT-45 (AOC-O) would include the installation of up to fifteen soil borings as shown on Figure 3-4. During NMED's March 8, 2007 site inspection it was agreed that the number of borings could be reduced to nine borings in the locations that were identified during the inspection. Soils and the ground water sampling and analysis is also required as proposed.

The Permittee is therefore required to submit an amendment to the work plan for this site that shows the anticipated boundary of the source area and the locations and proposed depths of the new borings.

4. **Page 3-6, Section 3.1.5.1, SS-12 DPT Soil Borings**

This section states that additional characterization activities at ERP site number SS-12 (AOC-K) would include the installation of up to fifteen soil borings as shown on Figure 3-5. During NMED's March 8, 2007 site inspection it was agreed that the proposed number of borings could be reduced to allow for boring spacing of 25 to 30 feet along the west/east trending storm sewer commencing in an easterly direction from boring BH-12-06A. The most easterly boring should be moved to the east approximately 25 feet from its proposed location. The north/south trending borings along the JP-4 pipeline are acceptable as proposed. Soils and ground water sampling and analysis is required as proposed.

The Permittee is therefore required to submit an amendment to the work plan for this site that shows the anticipated boundary of the source area and the locations and proposed depths of the new borings.

5. **Page 3-8, Section 3.1.7, RW-42 Radioactive Waste Burial Site**

This section states that additional characterization activities at ERP site number RW-42 (SWMU 111) would include the installation of four borings and three monitoring wells as shown on Figure 3-6. In addition to this characterization activity, the Permittee is required to conduct a surface radiological survey prior to commencing site activities, and to include these results and the results of any historical radiological surveys conducted at the site in the final report.

6. **Page 3-9, Section 3.1.8, OT-37 Early Missile Testing Site**

This section proposes various soil and ground water characterization activities at four locations within ERP site number OT-37 (AOC-L). In addition to the proposed characterization activities, the Permittee is required to collect a surface sample of the tar-like substance that coats the surface in the vicinity of the inclined test track and analyze this sample for total polychlorinated biphenyls (PCBs).

7. **Page 5-2, Section 5.1.3, Excavation Confirmation Sampling**

This section proposes that confirmatory samples will only be collected from excavation sidewalls, and not the bottom of the excavations, because the excavations will be terminated below the water table. At sites where this is not the case, samples must be collected from the bottoms of the excavations using the same dimensional and analytical requirements of the sidewalls.

The Permittee must respond to this Notice of Deficiency within thirty (30) calendar days of receipt of this letter. If you have any questions regarding this matter or if you would like to discuss the comments prior to your response, please contact David Strasser of my staff at (505) 222-9526.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
D. Tellez, EPA, Region 6 (6PD-F)
File: HAFB 2007 and Reading
HAFB-07-001

RESPONSE TO COMMENTS Accelerated Corrective Measures Work Plan Multiple Sites Holloman AFB, New Mexico				
COMMENT NO.	**SECTION**	**PAGE**	**COMMENT**	**RESPONSE**
AUTHOR:	**Mr. David Strasser (USACE Omaha)**		**Date of Comments: March 30, 2007**	**Date of Response: April 3, 2007**
DOCUMENT:	**ACM Work Plan Multiple Sites**			
1	1.0, Introduction, 2nd Paragraph, Last Sentence	1-1	This sentence references Environmental Restoration Program (ERP) site number OT-38. Table A of the Permit (List of SWMUs Requiring Corrective Action) shows the ERP number for this site as SS-38 (SWMU 137). The Permittee must clarify this discrepancy.	Although Table A of the Holloman AFB RCRA Permit (NM6572124422) lists SWMU 137 as ERP Site "SS-38", the *Holloman Air Force Base Environmental Restoration Program, Management Action Plan, December 2004* lists SWMU 137 (Sled Test Maintenance Area) as "OT-38". In addition, this site consists of an abandoned cesspool behind the building and is not considered a historical spill site (SS). Therefore, the ERP Site ID will be changed to "OT-38" during the next modification of the HAFB RCRA Permit.
2	3.1.1 OT-20 Sewage Lagoon Disposal Trenches	3-2	This section states that additional characterization activities at ERP site number OT-20 (SWMU 113A) would include trenching activities, the installation of up to nine soil borings, and the installation of three monitoring wells as shown on Figure 3-1. During NMED's March 8, 2007 site inspection it was agreed that the proposed trenching was not required. Rather, a minimum of three additional exploratory soil borings would be advanced to more accurately define the eastern boundary of the source areas prior to excavation. Soils shall be analyzed as proposed. The installation of the three monitoring wells and ground water sampling and analysis is also required as proposed. The Permittee is therefore required to submit an amendment to the work plan for this site that shows the anticipated boundary of the source area and the locations and proposed depths fo the new borings.	Concur. The scope of work presented in Section 3.1.1 has been revised. The additional trenching has been deleted and the installation of nine soil borings has been reduced to three soil borings. The purpose of the three soil borings (advanced 7 to 10 ft below ground surface) is to confirm the locations of the three sewage grit disposal pits and to assist in defining the eastern boundary of the disposal pits prior to excavation. The soil will be analyzed as proposed and the installation of three monitoring wells and ground water sampling will also be completed as proposed. Figure 3-1 has been revised to show the locations of the three boreholes and Figure 4-1 shows the anticipated boundary of the source area(s) excavation.
3	3.1.4.1 OT-45 DPT Soil Borings	3-6	This section states that additional characterization activities at ERP site number OT-45 (AOC-O) would include the installation of up to fifteen soil borings as shown on Figure 3-4. During NMED's March 8, 2007 site inspection it was agreed that the number of borings could be reduced to nine borings in the locations that were identified during the inspection. Soils and the ground water sampling and analysis is also required as proposed. The Permittee is therefore required to submit an amendment to the work plan for this site that shows the anticipated boundary of the source area and the locations and proposed depths of the new borings.	Concur. The scope of work presented in Section 3.1.4.1 (OT-45 DPT Soil Borings) has been revised. The installation of fifteen soil borings has been reduced to the nine locations that were identified during the site inspection (March 8, 2007). Figure 3-4 has been revised to show the locations of the nine OT-45 soil borings. It is anticipated that the nine soil boring will be advanced to a depth of approximately 5 feet below ground surface (anticipated depth to ground water). In addition, the OT-45 source area boundary has been extended around the locations of the three former underground storage tanks, the former pump island and former fuel station (Figure 3-4). The soil and ground water analysis will be analyzed as proposed.

RESPONSE TO COMMENTS Accelerated Corrective Measures Work Plan Multiple Sites Holloman AFB, New Mexico				
COMMENT NO.	**SECTION**	**PAGE**	**COMMENT**	**RESPONSE**
4	3.1.5.1 SS-12 DPT Soil Borings	3-6	This section states that additional characterization activities at ERP site number SS-12 (AOC-K) would include the installation of up to fifteen soil borings as shown on Figure 3-5. During NMED's March 8, 2007 site inspection it was agreed that the number of borings could be reduced to allow for boring spacing of 25 to 30 feet along the west/east trending storm sewer commencing in an easterly direction from boring BH-12-06A. The most easterly boring should be moved to the east approximately 25 feet from its proposed location. The north/south trending borings along the JP-4 pipeline are acceptable as proposed. Soils and the ground water sampling and analysis is also required as proposed. The Permittee is therefore required to submit an amendent to the work plan for this site that shows the anticipated boundary of the source area and the locations and proposed depths of the new borings.	Concur. The scope of work presented in Section 3.1.4.1 (SS-12 DPT Soil Borings) has been revised. The installation of up to fifteen soil borings has been reduced to twelve locations. It was agreed during NMED's March 8, 2007 site inspection that the proposed number of borings could be reduced to allow for a boring spacing of 25 to 30 feet along the east/west trending storm sewer commencing in an easterly direction from BH-12-06A. It is anticipated that the twelve soil borings will be advanced to a depth of approximately 5 to 7 feet below ground surface (anticipated depth to ground water). Figure 3-5 has been revised to show the locations of the twelve SS-12 DPT soil boring locations and the approximate source area/site boundary.
5	3.1.7 RW-42 Radioactive Waste Burial Site	3-8	This section states that additional characterization activities at ERP site number RW-42 (SWMU 111) would include the installation of four soil borings and three monitoring wells as shown on Figure 3-6. In addition to this characterization activity, the Permittee is required to conduct a surface radiological survey prior to commencing site activities, and to include these results and the results of any historical radiological surveys conducted at the site	Concur. A surficial radiological survey will be conducted prior to initiating field activities at Site RW-42. The results of this and historical radiological surveys will be included in the final report for the site.
6	3.1.8 OT-37 Early Missile Testing Site	3-9	This section proposes various soil and groundwater characterization activities at four locations within ERP site OT-37 (AOC-L). In addition to the proposed characterization activities, the Permittee is required to collect a surface sample of the tarlike substance that coats the surface in the vicinity of the inclined test track and analyze the sample for total polychlorinated biphenyls (PCBs).	Concur. A single sample of the tarlike substance that coats the surface in the vicinity of the inclined test track will be collected and analyzed for total polychlorinated biphenyls.
7	5.1.3 Excavation Confirmation Sampling	5-2	This section proposes that confirmation samples will only be collected from excavation sidewalls, and not the bottom of the excavations, because the excavations will be terminated below the water table. At sites where this is not the case, samples must be collected from the bottoms of the excavations using the same dimensional and analytical requirements of the sidewalls.	Concur. For sites (e.g., OT-03) where the excavation of contaminated soil is most likely to be terminated above the water table, confirmation soil samples will also be collected from the bottom of the excavation using the same dimensional and analytical requirements as the sidewall confirmation sampling. This change has been added to Section 5.1.3 (Excavation Confirmation Sampling).
END OF COMMENTS				

ATTACHMENT B

SS-18 CSIA Study, Holloman Air Force Base, NM

Microseeps, Inc., March 2013

Project P1212013

NationView, LLC

Project: SS-18 CSIA Study, Holloman Air Force Base, NM (11-0020)

Patrick McLoughlin, Ph.D.

March 20, 2013

220 William Pitt Way
Pittsburgh, PA
Phone (412) 826-5245 Fax (412) 826-3433
www.microseeps.com

Executive Summary

In December of 2012 NationView collected groundwater samples from selected monitoring wells at Site SS-18, Holloman Air Force Base (HAFB) and submitted them to Microseeps, Inc. for analyses to inform a study of biodegradation at that site. Specifically, the isotopic ratios in the carbon of the chloroethenes and chloroethanes in those samples were analyzed by compound specific isotope analysis (CSIA) and the concentrations of dissolved methane, ethane and ethene were also measured.

The samples were collected along two transects of the plume extending from the presumed source to the distal edge of the plume. Those samples were collected from wells SS18-MW05, SS18MW04, SS18-MW08, SS18-MW16, SS18-MW18, SS18-MW19 and S51-MW3.

There is evidence of biodegradation of 111-TCA along both transects and biodegradation of PCE/TCE along one of the two transects, with the degradation of the 111-TCA intermediates being fairly rapid at times but the degradation of the PCE/TCE intermediates being slow when it exists. The active mechanisms appear to be a mix of reductive dechlorination and biological oxidation. A review of historical chlorinated volatile organic compound (CVOC) concentrations shows little change over approximately five years, as the biodegradation discussion suggests. Based upon the findings detailed in this report, possible site management strategies are suggested.

Patrick McLoughlin, Ph.D.
Technical Director
Microseeps, Inc.

Background

At the HAFB site the groundwater was impacted with tetrachloroethene (PCE), trichloroethene (TCE), cis-dichloroethene (cis-DCE), 1,1,1-trichloroethane (111-TCA), 1,1-dichloroethene (11-DCE), 1,1-dichloroethane (11-DCA) and vinyl chloride (VC). Groundwater geochemical data suggested degradation but it was unclear if there was a potential for complete biodegradation and, if so, if the rate of that biodegradation was protective. To investigate this CSIA was performed on the chlorinated volatile organic compounds (CVOCs) in seven samples and methane, ethane and ethene concentrations were also measured in those samples.

Isotopic ratios can be considered "nature's tracer" because a contaminant which contains carbon – 13 (i.e. ^{13}C) behaves very like the same contaminant when it is devoid of ^{13}C and contains only ^{12}C. In ground-water dilution, advection and volatilization do not appreciably change the isotopic ratio of contaminants, but degradation does; so changes in the isotopic ratio tell about degradation. CSIA is the tool that allows us to measure this isotopic ratio and exploit "nature's tracer."

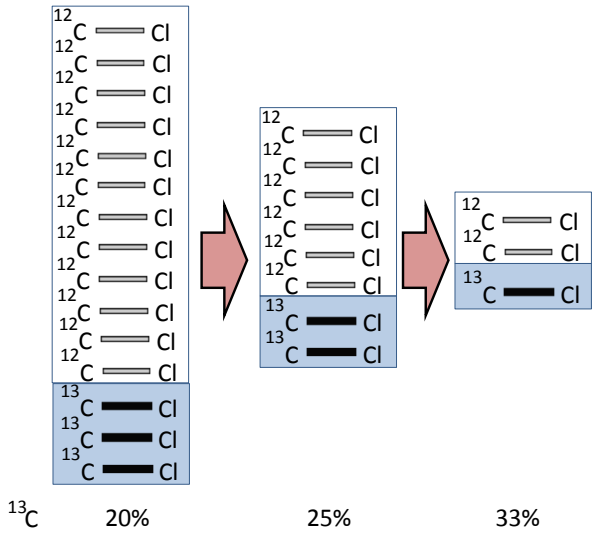

Figure 1 Example of isotopic fractionation

To better understand these concepts, a brief review of atomic structure is useful. A given element contains a set number of protons and electrons. In the case of carbon there are six protons and six electrons. However, an element may have a variable number of neutrons, and because of the difference in the number of neutrons there is a difference in the mass of the element. There are three different naturally occurring masses or isotopes of carbon, the stable ^{12}C and ^{13}C, and the radioactive ^{14}C. In CSIA only the stable isotopes are measured. It takes a little less energy to break a bond between a light isotope (^{12}C) and another atom than it takes to break a bond between a heavy isotope (^{13}C) and that same atom. This leads to very slightly slower reaction rates for molecules containing heavy isotopes compared to molecules containing only light isotopes, and this in turn leads to a pooling, or increased percentage of heavy isotopes in the reactants of a reaction that breaks a bond and a pooling of light isotopes in the products of that reaction. This is called isotopic fractionation. A somewhat exaggerated example of this is shown for a carbon-chlorine (C-Cl) bond in Figure 1.

In compound specific isotope analysis (CSIA) the ratio of $^{13}C/^{12}C$ (or "isotopic ratio") is measured in each of the individual compounds PCE, TCE, cis-DCE, 111-TCA, 11-DCE, 11-DCA and VC. The isotopic ratio is expressed as a $\delta^{13}C$ (‰) or "delta", a convenient mathematical quantity linearly related to the isotopic ratio. For convenience the isotopic ratio of carbon is specified, not absolutely, but in relation to an internationally recognized standard (known as PeeDee Belemnite or "PDB"). A $^{13}C/^{12}C$ ratio that is more enriched in ^{13}C than the PDB standard has positive values while ratios less enriched in ^{13}C have negative values.

Since groundwater flow is consistent throughout the course of the year and mostly uni-directional throughout the site, it is appropriate to treat the sampled wells as two transects, each parallel to the direction of groundwater flow. The A transect includes SS18-MW05, SS18-MW16 and SS18-MW18, with each well being down-gradient of the one listed before it. The B transect includes SS18-MW04, SS18-MW08, SS18-MW19 and S51-MW03. For each of these two transects the isotopic values are presented in Table 1.

Table 1. Isotopic values ($\delta^{13}C$ in ‰ vs. PDB) for SS-18 HAFB.

Well ID	PCE	TCE	111-TCA	cis-DCE	11-DCE	11-DCA	VC
A transect							
SS18-MW05	-	-	-7.65	-	-14.03	-28.19	-
SS18-MW16	-	-5.01	-	-23.99	-23.99	-	-
SS18-MW18	-21.90	-17.09	-	-25.86	-	-23.75	-
B transect							
SS18-MW04	-	-	-	-	-20.97	-30.93	-
SS18-MW08	-	-	-	-	-23.77	-33.77	-
SS18-MW19	-23.82	-28.87	-	-22.26	-11.16	-29.52	-
S51-MW03	-22.58	-17.78	-	-27.28	-	-30.70	-

Carbon CSIA is typically accurate to ±0.5 ‰, so changes greater than 1 ‰ are significant. With that in mind, it can be seen the results presented in Table 1 vary over a wide range. One of the first observations is the isotopic values don't seem to either remain the same (PCE might be the exception here) or get heavier (that is, more positive) with distance down-gradient. As compounds degrade, the remaining reactant becomes enriched in the heavy isotope, so the $\delta^{13}C$ increases. Thus if there were a single source the isotopic values of the parent compounds should either remain constant (if there were no degradation) or become progressively heavier down-gradient of the source. The measured $\delta^{13}C$ reported in Table 1 neither remain constant nor become progressively heavier as distance down-gradient increases. Further, the changes are significant. This suggests there is not a single source to the observed contamination. The variation suggests multiple, small sources. Bhate/NationView have collected many subsurface soil data samples in 2007, 2010 and 2012. A Chlorinated Volatile Organic Compound (CVOC) source area(s) in the vicinity of the impacted ground-water has not been found, and this agrees with the conclusions of the CSIA study.

Along a single transect the bacteria are similar, so it is important to realize how the wells divide by transect. However, the groundwater flow velocity is less than 20 ft/yr (NationView, 2011). That flow velocity and the existence of multiple small spills imply these wells can be approximated as separate. Thus, Table 1 and all other tables in this report should be

interpreted as seven separate scenarios as well as two transects. Accordingly, it should be remembered when looking at the tables in this report that up-gradient/down-gradient relationships are only part of the story.

As evidenced in Table 1, the $\delta^{13}C$ of the PCE, TCE and 111-TCA range from -28.9 to -5.0. There were only three points where the PCE concentration was large enough to measure (CSIA requires a minimum PCE concentration of 5 µg/l). $\delta^{13}C$ = -21.90 ‰ for SS18-MW18 in transect A and -23.82 ‰ for SS18-MW19 and -22.58 ‰ for S51-MW03 the two PCE impacted wells along transect B. Along each transect these are down-gradient wells, so if this is undegraded PCE it did not originate from the up-gradient wells. TCE was measureable in four wells. TCE can be both an original contaminant and an intermediate produced through the degradation of PCE. The heaviest reported value for undegraded TCE is -24.5 ‰, (Aelion et al, 2010)

There are surveys in the literature for the $\delta^{13}C$ of undegraded PCE, TCE and 111-TCA. The highest reported $\delta^{13}C$ values (Aelion et al, 2010) are -23.2, -24.5 and -25.5 ‰, respectively. The USEPA (Hunkeler et al, 2008) says degradation of the parent compound is significant if the parent is at least 2 ‰ heavier than the heaviest of the reported values. Further, the Rayleigh Relationship (Aelion et al, 2010) tells us that the degradation is more extensive the heavier the delta is. It can be seen from Table 1 five of the eight observed values indicate degradation of the parent products PCE, TCE and 111-TCA. Indeed, $\delta^{13}C > -20$ ‰ for four of the parent molecules, implying the degradation of those compounds is fairly rapid in those locations. Calculations discussed here-in will not rely on comparison to the existing parent isotopic ratios (which are known to be affected by degradation) but on comparison to the literature values for undegraded product.

In addition to the parent compounds it is important to consider the intermediate products cis-DCE, 11-DCE, 11-DCA and VC. There are several potential pathways for degradation and they are depicted in Figure 2.

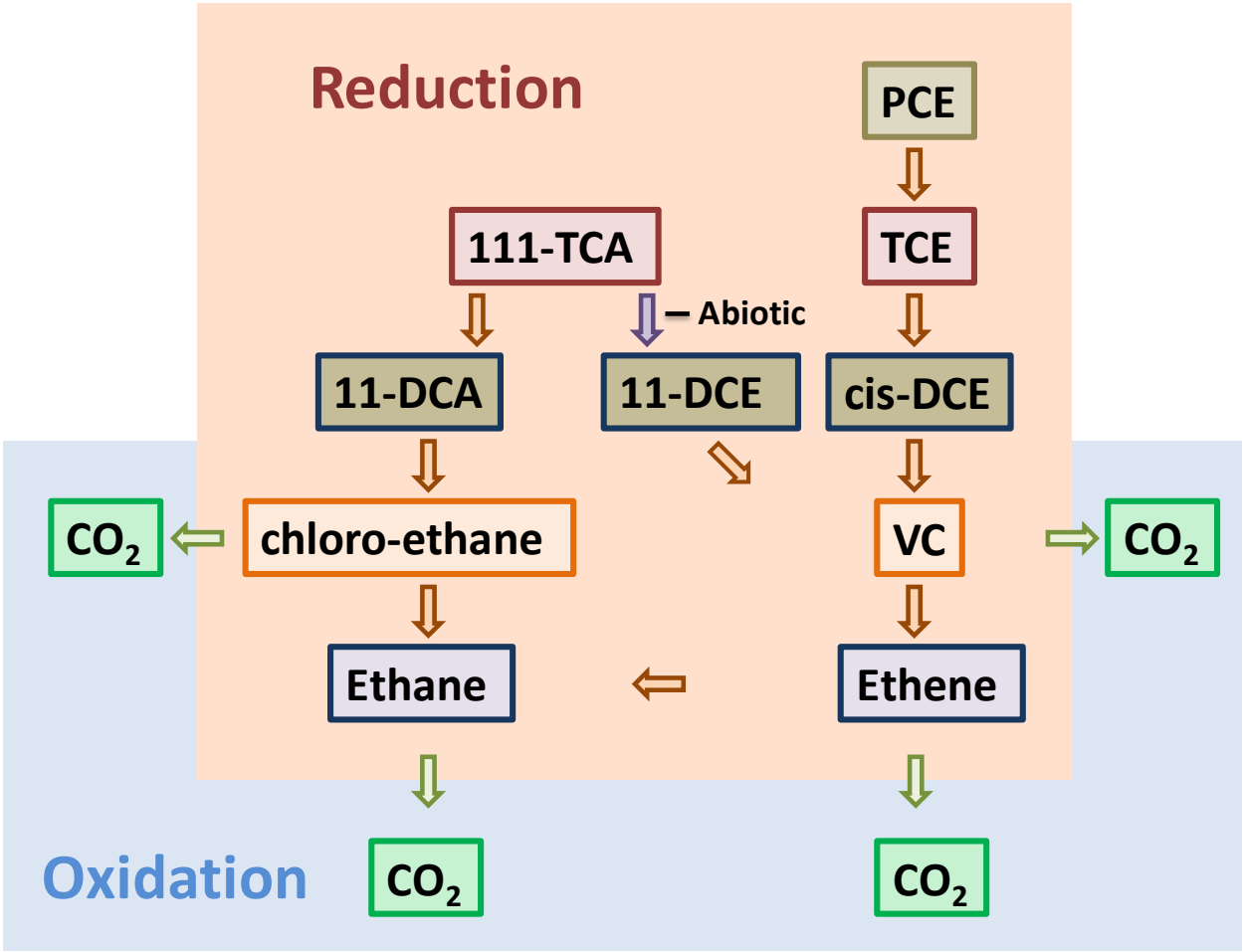

Figure 2. Potential degradation pathways for 111-TCA and PCE in groundwater. Biogeochemical Transformation pathways are not presented, nor are engineered chemical treatments such as ISCO or "iron wall" reactions.

As displayed in Figure 2, 111-TCA degrades into 11-DCA or 11-DCE. Since there are two alternatives, a complete isotope balance must consider both possible products. A concentration weighted δ^{13}C can be calculated for the intermediate products 11-DCA and 11-DCE according to:

$$\delta^{13}\mathrm{C}(11\mathrm{DC}) = \frac{\delta^{13}C(11DCA)[11DCA]+\delta^{13}C(11DCE)[11DCE]}{[11DCA]+[11DCE]} \qquad \text{EQ 1}$$

Using the same approach that was used to examine the δ^{13}C of the parent compounds for degradation of the original compounds it can be reasoned that if there is degradation of either 11-DCA or 11-DCE, δ^{13}C (11DC) will be heavier or more positive than the heaviest of the reported literature values for undegraded 111-TCA. Those values were computed and are presented in Table 2. The heaviest reported 111-TCA was -25.5‰ (Aelion et al, 2010). Applying

the recommended safety factor of 2‰ (Hunkeler et al, 2008), it can be said there was degradation of either 11-DCA or 11-DCE if δ^{13}C (11DC) ≥ -23.5 ‰. Indeed, the values for δ^{13}C(11DC) were calculated and the results are presented in Table 2. Those results show that there is degradation of 11-DCE and or 11-DCA in all wells, and that five of the seven wells (two of three wells along transect A and three of four wells along transect B) have δ^{13}C (11DC) > -20 ‰ so the degradation is fairly rapid in those wells. Looking at the values in Table 1, the 11-DCA does not get heavier than -23.5 ‰, but the 11-DCE is often much heavier than -23.5 ‰. This suggests that the 11-DCE is degrading but the 11-DCA may not be.

If there were degradation of the PCE and TCE into something other than chlorinated ethenes, the isotopic ratio of all chlorinated ethenes (excluding 11-DCE) would be heavier than the heaviest of reported undegraded PCE or TCE. The average δ of the chlorinated ethenes PCE, TCE, cis-DCE and VC is expressed as:

$$\delta^{13}\mathrm{C(CE)} = \frac{\delta^{13}C(PCE)[PCE]+\delta^{13}C(TCE)[TCE]+\delta^{13}C(cDCE)[cDCE]+\delta^{13}C(VC)[VC]}{[PCE]+[TCE]+[cDCE]+[VC]} \qquad \text{EQ 2}$$

If cis-DCE is the only source of VC and there was no transformation of PCE or TCE to something other than cis-DCE or VC, $\delta^{13}C(CE)$ = δ_0, the original δ^{13}C of the undegraded PCE/TCE mixture. Since there is a range to δ_0 for undegraded PCE and TCE, there is an upper bound regardless of how many sources there are. So if δ^{13}C(CE) is more positive than the heaviest undegraded PCE and TCE (whichever extreme is heavier) there is proof that there is degradation of PCE & TCE to something other than chloroethenes. This is similar to the analysis of 11-DCE and 11-DCA done above.

Figure 2 shows that VC can originate from 111-TCA as well as from PCE and TCE. However, VC was not observed at concentrations above 3 µg/l and an isotopic ratio for VC could not be measured from such low concentrations. Thus for the seven samples from the HAFB site the VC terms can be left out of EQ 2. This removes the restriction that cis-DCE can be the only source of VC. Accordingly, δ^{13}C(CE) is calculated with EQ 2 and the results are presented in Table 2.

Table 2. Calculated δ^{13}C(CE) and δ^{13}C(CA) for SS-18HAFB

Well ID	δ^{13}C(11DC)	δ^{13}C(CE)
	Transect A	
SS18-MW05	-11.6	-
SS18-MW16	-21.5	-20.6
SS18-MW18	-7.2	-20.9
	Transect B	
SS18-MW04	-16.6	-
SS18-MW08	-20.8	-

Well ID	$\delta^{13}C$(11DC)	$\delta^{13}C$(CE)
SS18-MW19	-12.4	-24.4
S51-MW03	-8.6	-23.1

From Table 2 it can be seen $\delta^{13}C$ (CE) is > -22.5 ‰ in SS18-MW16 and SS18-MW18, indicating degradation to something other than PCE, TCE, cis-DCE or VC in those wells. Both of those wells are in transect A, and the other well in transect A, SS18-MW05, was not impacted by those chlorinated ethenes. In transect B it can be seen that only SS18-MW19 and S51-MW03 were impacted in that four well transect. $\delta^{13}C$ (CE) < -22.5 ‰ in both of those wells, indicating that there is no evidence of PCE/TCE degradation to non-chlorinated products in those wells. Even in transect A, both $\delta^{13}C$ (CE) < -20 ‰, implying that the degradation in those wells is significant but not very rapid.

The methane, ethene and ethane concentrations are presented in Table 3. None of the methane concentrations are close to the 500 ug/l expected for methanogenesis, suggesting that the site is not strongly reducing. The maximum methane concentration was 11 µg/l, far below the methanogenesis threshold. This very minimal production of methane suggests that the aquifer has a lot of electron acceptors in it. While the high TDS could be from a very high sulfate concentration and that sulfate could inhibit the establishment of methanogenesis as the dominant red-ox process, it still would not completely inhibit some methane production. More likely the low methane concentrations are the result of terminal electron acceptors created by the chromic acid release. Those electron acceptors are poising the aquifer in an oxic or hyper-oxic condition that is not extremely reducing. Such an environment cannot support abiotic MNA nor complete reductive dechlorination. If reducing conditions are to be established, organic substrate would need to be added that can exhaust the supply of electron acceptors.

Table 3.Measured methane, ethane and ethene concentrations for SS-18 HAFB (in µg/l)

Well ID	methane	ethene	ethane
Transect A			
SS18-MW05	0.13	<0.025	<0.025
SS18-MW16	3.2	0.27	0.13
SS18-MW18	2.6	0.08	0.07
Transect B			
SS18-MW04	0.27	0.03	0.15
SS18-MW08	0.19	0.05	<0.025
SS18-MW19	4.5	0.33	0.19
S51-MW03	11	0.05	0.16

If reductive dechlorination is going to completion and if ethene and ethane are conserved, all of the PCE, TCE and 111-TCA would eventually be transformed into ethene or ethane. Certainly mass is lost as reductive dechlorination proceeds and chlorine atoms are replaced by much lighter hydrogen atoms, but it would still be expected that the ethene+ethane concentration be > 1 µg/l. From the data in Table 3 it can be seen this is not the case in any of the wells along either transect. This implies that if ethene and/or ethane are being created, they are quickly being consumed. Figure 2 shows the mechanism for that consumption is oxidation. Similarly, if VC is formed it may be being oxidized rather than reduced and, if chloroethane is produced it must be being rapidly oxidized as well.

Historical Considerations

As questions of degradation are studied it becomes important to put it into context: what are the concentrations in the ground water and how have they evolved over time? To provide the data needed to evaluate that, the concentrations of the CVOC's measured over time are summarized in Tables 4 and 5.

Table 4 Historical CVOC concentrations along transect A (in µg/l)

SS18-MW05	**Oct-07**	**Aug-09**	**Sep-12**	**Dec-12**
PCE	U	U	U	U
TCE	-	U	0.3 (J)	0.5 (J)
cDCE	-	U	U	U
111TCA	11	5.4	56.9	140
11DCA	20	11.3	170	350
11DCE	16	6.4	54.4	180
VC	-	-	U	0.9 (J)
SS18-MW16	Sep-09	Sep-12	Dec-12	
PCE	0.4 (J)	0.8 (J)	2.1 (J)	
TCE	2.4	12.9	42	
cDCE	15.2	199	550	
111TCA	U	U	U	
11DCA	U	1.2	12	
11DCE	U	2	U	
VC	-	0.9 (J)	2.1 (J)	
SS18-MW18	Sep-09	Sep-12	Dec-12	
PCE	12.9	16.4	22	
TCE	95.6	111	140	

cDCE	62.4	102	160
111TCA	U	U	U
11DCA	8.3	8.5	13
11DCE	2.4	2.8	3.2 (J)
VC	-	0.3 (J)	U

Table 5 Historical CVOC concentrations along transect B (in µg/l)

SS18-MW04	**Jun-07**	**Jul-07**	**Aug-09**	**Sep-12**	**Dec-12**
PCE	U	U	U	0.3 (J)	U
TCE	-	-	U	U	U
cDCE	-	-	U	U	U
111TCA	0.7 (J)	U	U	0.8 (J)	U
11DCA	15	22	18.3	25.2	31
11DCE	18	40	56.6	35.9	36
VC	-	-	-	U	U
SS18-MW08	Oct-07	Aug-09	Sep-12	Dec-12	
PCE	1.1 (J)	28.7	28.2	U	
TCE	-	5.9	6.5	U	
cDCE	-	0.2 (J)	0.4 (J)	U	
111TCA	U	0.33	U	U	
11DCA	20	37.5	27.2	23	
11DCE	120	193	95.5	160	
VC	-	-	U	U	
SS18-MW19	Sep-09	Sep-12	Dec-12		
PCE	48.8	16.4	130		
TCE	13.4	111	24		
cDCE	2.9 (J)	102	6.6		
111TCA	U	U	U		
11DCA	548	497	490		
11DCE	67.1	53.8	65		
VC	-	0.3 (J)	1.7 (J)		
S51-MW-3	Jun-07	Dec-12			
PCE	0.6 (J)	27			
TCE	6.5	73			
cDCE	0.2 (J)	170			

111TCA	U	U
11DCA	2.5	17
11DCE	2.8	6.3
VC	U	U

The concentrations appear to be slowly increasing in transect A and stable in transect B. This supports the CSIA conclusion that there is active degradation in transect B.

Site Management Recommendations

While it might appear that reductive dechlorination should be stimulated across the site through bio-stimulation (that is, the introduction of a carbon substrate) and bio-augmentation (that is, the introduction of exogenous bacteria proven capable of complete biodegradation of all contaminants), such an approach should be considered carefully. First, this report found extensive evidence biodegradation through oxidation played a significant role in the remediation of this site, and large scale stimulation of reducing conditions by the addition of a carbon substrate could slow down or all together stop the active biodegradation through oxidation. Second, while there are commercial cultures appropriate for the reduction of mixtures of chlorinated ethenes and ethanes, (for example a mixture of Shaw's SDC-9 and TCA-20) but they are not specifically designed for high TDS environments such as that found at SS-18 and should be tested at this site either as a pilot test or in "in-situ microcosms" such as those provided by Microbial Insights.

The native microorganisms that are currently carrying out the biodegradation are clearly already acclimated to the high TDS at the site. It may be best to stimulate them, and avoid the need for exogenous bacteria. One possibility would be to remediate by using amendments with a very localized effect. A dissolved oxygen source could be placed near to wells where readily oxidized compounds are the main concern such as SS18-MW04 and SS18-MW08. A DO source would also stop the conversion of 111-TCA to 11-DCA through reductive dechlorination, thus insuring that nearly all of the 111-TCA form 11-DCE. This could be desirable at SS-18 because this site has demonstrated a capacity to biodegrade 11-DCE but not 11-DCA, and this could be done by deploying a DO source near SS18-MW05 and S51-MW03. Limited additions of a carbon substrate may be deployed near wells with a lot of PCE, TCE or DCA such as SS18-MW16, SS18-MW18 and SS18-MW19. Indeed, this study found no conclusive proof of 11-DCA degradation and since the only known mechanism for 11-DCA biodegradation is reductive dechlorination, careful biostimulation of the reductive processes may be in order.

Depending on the regulatory environment and on the location of sensitive receptors, MNA only should be considered an option at HAFB. The rate of the transformation from PCE, TCE or 111-TCA to unchlorinated products is not very rapid, but sufficient to keep the concentrations stable in transect B. The active mechanisms seem to be a mix of anaerobic reduction and oxidation. CVOC concentrations have been monitored for approximately 5 years and showed either stability or slow growth and as the source is depleted that growth will stop. The groundwater flow velocity is less than 20 ft/yr (NationView, 2011) , so contaminant migration is not a pressing concern. 11-DCA was the only contaminant present for which this study found no evidence of biodegradation, and the NMWQCC limit for 11-DCA is 5 times that of 11-DCE. Due to a naturally high TDS the impacted aquifer has been designated a non-use aquifer by the USEPA.

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APPENDIX A

HISTORICAL DATA FROM PREVIOUS INVESTIGATIONS

Appendix A-1

Portions of the *Installation Restoration Program Records Search for Holloman Air Force Base, New Mexico.*

CH2M Hill, August 1983

File: R.L. 17A

181

INSTALLATION RESTORATION PROGRAM RECORDS SEARCH

For Holloman Air Force Base, New Mexico

CH2M HILL

Prepared for

AIR FORCE ENGINEERING AND SERVICES CENTER
DIRECTORATE OF ENVIRONMENTAL PLANNING
TYNDALL AIR FORCE BASE, FLORIDA 32403
AND
TACTICAL AIR COMMAND
DIRECTORATE OF ENGINEERING AND ENVIRONMENTAL PLANNING
LANGLEY AIR FORCE BASE, VIRGINIA 23665

AUGUST 1983

The overall score for this site was 43. The disposal of small confirmed quantities of hazardous waste resulted in a waste characteristics subscore of 60. A pathways subscore of 51 was given to the site.

k. Site No. 18--Chromic Acid Spill Site

The Chromic Acid Spill Site (overall score of 45) is located near Building 281 in the Main Base Area.

The 479th CRS maintained a chrome plating shop in Building 281 until the late 1970's. When the operation was discontinued, the full chromic acid vats were temporarily stored on the south side of the building. It is estimated that approximately 500 gallons of chromic acid were spilled on the ground in this storage area with some of the acid reaching the surface drainage ditch just west of the storage area. In 1982, ten yellow stained soil samples were collected and composited for hexavalent chromium analysis. The E.P. extraction quantity of hexavalent chromium found in the composite sample was equivalent to 0.600 mg/l.

The overall rating for this spill site was 45. A waste characteristics subscore of 60 was assigned as a result of the small confirmed disposal of hazardous waste materials. Due to the proximity of the surface drainage ditch (less than 50 feet), the pathways subscore was 57.

l. Site No. 20--Wastewater Treatment Plant Grit Burial Site

From 1942 to the present, all settled solids from the grit chamber located at the head of the waste treatment lagoons have been buried in shallow excavation pits (overall score of 33) just east of the fence surrounding the

Appendix A-2

Portions of the *Installation Restoration Program, Phase II – Confirmation/Quantification Stage 1, Report (April 1984 to March 1985) for Holloman Air Force Base, New Mexico 88330*.

Dames & Moore, March 6, 1987

INSTALLATION RESTORATION PROGRAM
PHASE II - CONFIRMATION/QUANTIFICATION
STAGE 1

REPORT (APRIL 1984 TO MARCH 1985)

FOR

HOLLOMAN AIR FORCE BASE
NEW MEXICO 88330

HEADQUARTERS TACTICAL AIR COMMAND
COMMAND SURGEON'S OFFICE (HQ TAC/SGPB)
BIOENVIRONMENTAL ENGINEERING DIVISION
LANGLEY AIR FORCE BASE, VIRGINIA 23665-5001

MARCH 6, 1987

PREPARED BY

DAMES & MOORE
1550 NORTHWEST HIGHWAY
PARK RIDGE, ILLINOIS 60068

USAF CONTRACT NO. F33615-83-D-4002, DELIVERY ORDER NO. 0025

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED

USAFOEHL TECHNICAL PROGRAM MANAGER

LT. COL. EDWARD BARNES
USAFOEHL/TS

USAF OCCUPATIONAL & ENVIRONMENTAL HEALTH LABORATORY (USAFOEHL)
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BROOKS AIR FORCE BASE, TEXAS 78235-5501

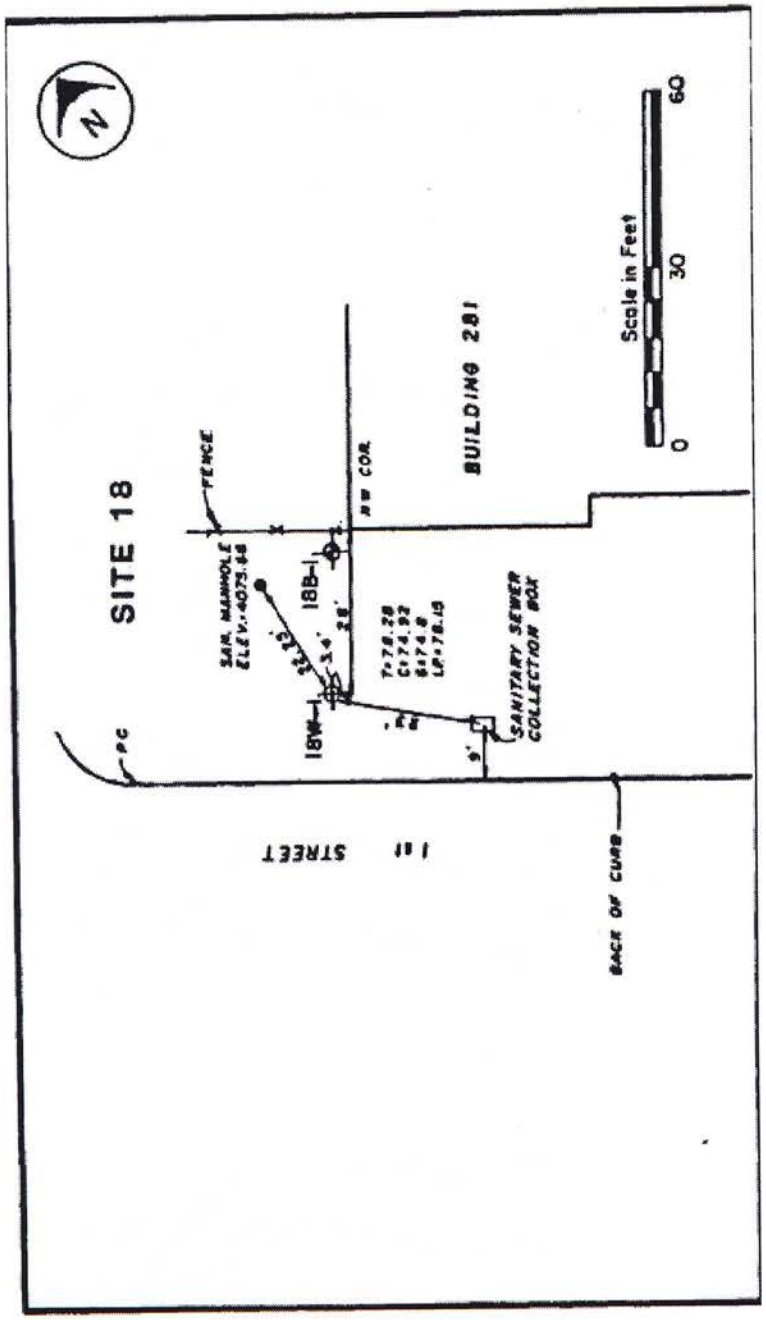


Fig. 10 SS-18 Site Map

UBTL ANALYTICAL REPORT
Holloman IRP - Soil Analyses (1)

Parameter	Method	Units	Detection Limit	Date Received	Date Analyzed	18B1 0-1'	18B1 2.5-4'	18B1 5-6.5'
Chromium	218.1 (2)(4)	mg/L	0.05	10/16/84	12/05/84	*	*	*
Chromium (Hexavalent)	312.B (3)(4)	mg/L	0.004	10/16/84	12/05/84	*	*	*

(1) Results are not corrected for percent moisture.
(2) Methods for Chemical Analysis of Water and Wastes, E600/4-79-020, Revised March 1983, Modified for use with soil samples.
(3) "Standard Methods for the Examination of Wastes and Wastewater," for analysis on Technicon Auto Analyzer II, modified for use with soil samples.
(4) Samples have been extracted for EP Toxicity according to Method No. 1310 published in EPA Publication No. SW-846.
* Denotes value less than the limit of detection.

UBTL ANALYTICAL REPORT
Holloman IRP - Soil Analyses (1)

Parameter	Method	Units	Detection Limit	Date Received	Date Analyzed	18W1 0-1'	18W1 2.5-4'	18W1 5-6.5'
Chromium	218.1 (2)(4)	mg/L	0.05	09/27/84	12/05/84	*	*	*
Chromium (Hexavalent)	312.B (3)(4)	mg/L	0.004	09/27/84	12/05/84	*	*	*

(1) Results are not corrected for percent moisture.
(2) Methods for Chemical Analysis of Water and Wastes, E600/4-79-020, Revised March 1983, Modified for use with soil samples.
(3) "Standard Methods for the Examination of Wastes and Wastewater," for analysis on Technicon Auto Analyzer II, modified for use with soil samples.
(4) Samples have been extracted for EP Toxicity according to Method No. 1310 published in EPA Publication No. SW-846.
* Denotes value less than the limit of detection.

UBTL ANALYTICAL REPORT

Holloman IRP - Soil Analyses (1)

Parameter	Method	Units	Detection Limit	Date Received	Date Analyzed	18B1 Comp	31B2 Comp
Arsenic	7060 (2)(4)	mg/L	0.01	10/04/84	11/12/84	*	*
Barium	7080 (2)(4)	mg/L	0.1	10/04/84	11/12/84	17.	18.
Cadmium	7130 (2)(4)	mg/L	0.01	10/04/84	11/12/84	0.01	0.01
Lead	7421 (2)(4)	mg/L	0.01	10/04/84	11/12/84	*	*
Mercury	7470 (2)(4)	mg/L	0.0001	10/04/84	11/12/84	*	*
Selenium	7740 (2)(4)	mg/L	0.01	10/04/84	11/12/84	*	*
Silver	7760 (2)(4)	mg/L	0.01	10/04/84	11/12/84	0.02	0.02
Chromium	7190 (2)(4)	mg/L	0.05	10/04/84	11/12/84	*	*
Lindane	8080 (2)(4)	µg/L	0.02	10/04/84	11/12/84	*	*
Methoxychlor	8080 (2)(4)	µg/L	0.2	10/04/84	11/12/84	*	*
Endrin	8080 (2)(4)	µg/L	0.02	10/04/84	11/12/84	*	*
Toxaphene	8080 (2)(4)	µg/L	1.	10/04/84	11/12/84	*	*
2,4-D	8150 (2)(4)	µg/L	0.05	10/04/84	11/12/84	*	*
2,4,5-TP (Silvex)	8150 (2)(4)	µg/L	0.05	10/04/84	11/12/84	*	*
Ignitability	(3)(2)			10/04/84	(5)	NI	NI

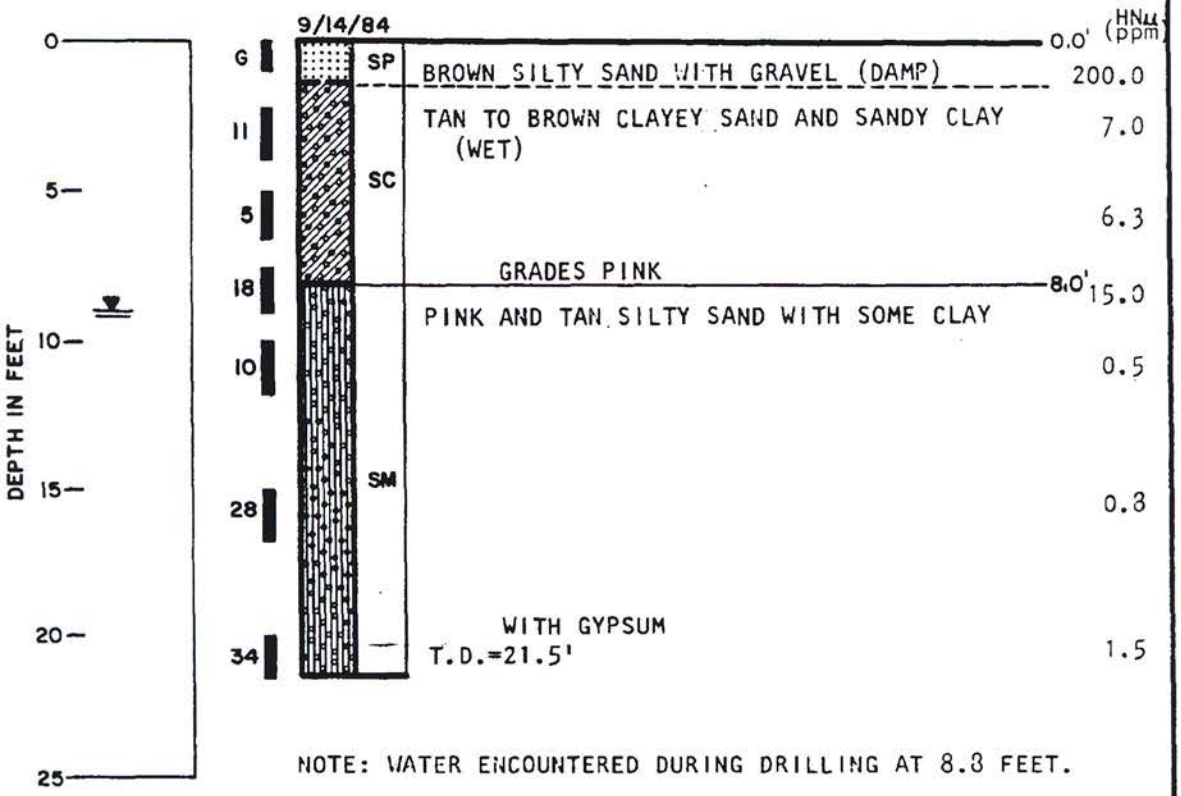
(1) All samples have been extracted for EP Toxicity according to Method No. 1310 published in EPA Publication No. SW-846.
(2) EPA Manual for "Test Methods for Evaluating Solid Waste," EPA Publication No. SW-846.
(3) Section 3 of EPA Publication No. SW-846.
(4) The analytical technique between the SW-846 methods and the methods in "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater" (EPA-600/4-82-057, July 1982) and "Methods for Chemical Analysis of Water and Wastes" (EPA 600/4-79-020, March 1983) are the same.
(5) Analyzed before 11/30/84.
* Denotes value less than the limit of detection.
NI Denotes the sample was not ignitabile.

UBTL ANALYTICAL REPORT
Holloman IRP - Water Analyses

Parameter	Method	Units	Detection Limit	Date Received	Date Analyzed	1W1	1W2	1W3	51W1	13W1	18W1	31W1	50W1
Arsenic	206.2 (1)	mg/L	0.01	10/04/84	10/29/84	*	*	*		0.01			
Cadmium	213.1 (1)	mg/L	0.01	10/04/84	10/29/84	0.09	0.21	0.24					
Nickel	249.2 (1)	mg/L	0.1	10/04/84	10/29/84	0.2	0.4	0.5					
Lead	239.2 (1)	mg/L	0.01	10/04/84	10/29/84	*	0.03	0.05				*	
Silver	272.1 (1)	mg/L	0.01	10/04/84	10/29/84	0.10	0.18	0.21					
Chromium	218.2 (1)	mg/L	0.1	10/04/84	10/29/84	*	*	*			*		
Chromium (Hexavalent)	312.B (4)	µg/L	4.	10/04/84	10/29/84						7.		
Oil & Grease	413.2 (1)	mg/L	0.6	10/04/84	10/29/84	4.2	3.4	5.3	85.			15	140
T.O.C.	415.1 (1)	mg/L	1.	10/04/84	11/26/84	14.	24.	7.	68.			170	95
T.O.X.	9020 (2)	µg/L	10.	10/04/84	11/27/84	140,000	200,000	220,000	27,000			17,000	120
Phenolics	420.2 (1)	µg/L	10.	10/04/84	11/02/84	*	*	20	290			*	*
Aldrin	608 (5)	µg/L	0.01	10/04/84	11/08/84	*	*	*					* (3)
Dieldrin	608 (5)	µg/L	0.01	10/04/84	11/08/84	*	*	*					*
Endrin	608 (5)	µg/L	0.01	10/04/84	11/08/84	*	*	*					*
Heptachlor	608 (5)	µg/L	0.01	10/04/84	11/08/84	*	*	*					* (3)
Heptachlor Epoxide	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					* (3)
Lindane	608 (5)	µg/L	0.01	10/04/84	11/08/84	*	*	*					* (3)
Methoxychlor	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					*
Diazinon	608 (5)	µg/L	0.1	10/04/84	11/08/84	*	*	*					*
Malathion	608 (5)	µg/L	0.1	10/04/84	11/08/84	*	*	*					*
Parathion	608 (5)	µg/L	0.1	10/04/84	11/08/84	*	*	*					*
p,p'-DDT	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					*
o,p-DDT	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					*
DDE	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					*
DDD	608 (5)	µg/L	0.02	10/04/84	11/08/84	*	*	*					*

(1) "EPA Methods for Chemical Analysis of Water and Wastes," EPA 600/4-79-020, Revised March 1983
(2) EPA Manual "Test Methods for Evaluating Solid," SW 846, 2nd Ed., July 1982.
(3) LOD is elevated by 100 due to interfering chromatographic peaks.
(4) "Standard Methods for the examination of Wastes and Wastewater," for analysis on Technicon Auto Analyzer II.
(5) Organochlorine Pesticides and PCBs - Method 608, EPA Manual 600/4-82-057, July 1982.
* Denotes value less than the limit of detection.

HOLLOMAN AFB
BORING 18-B1



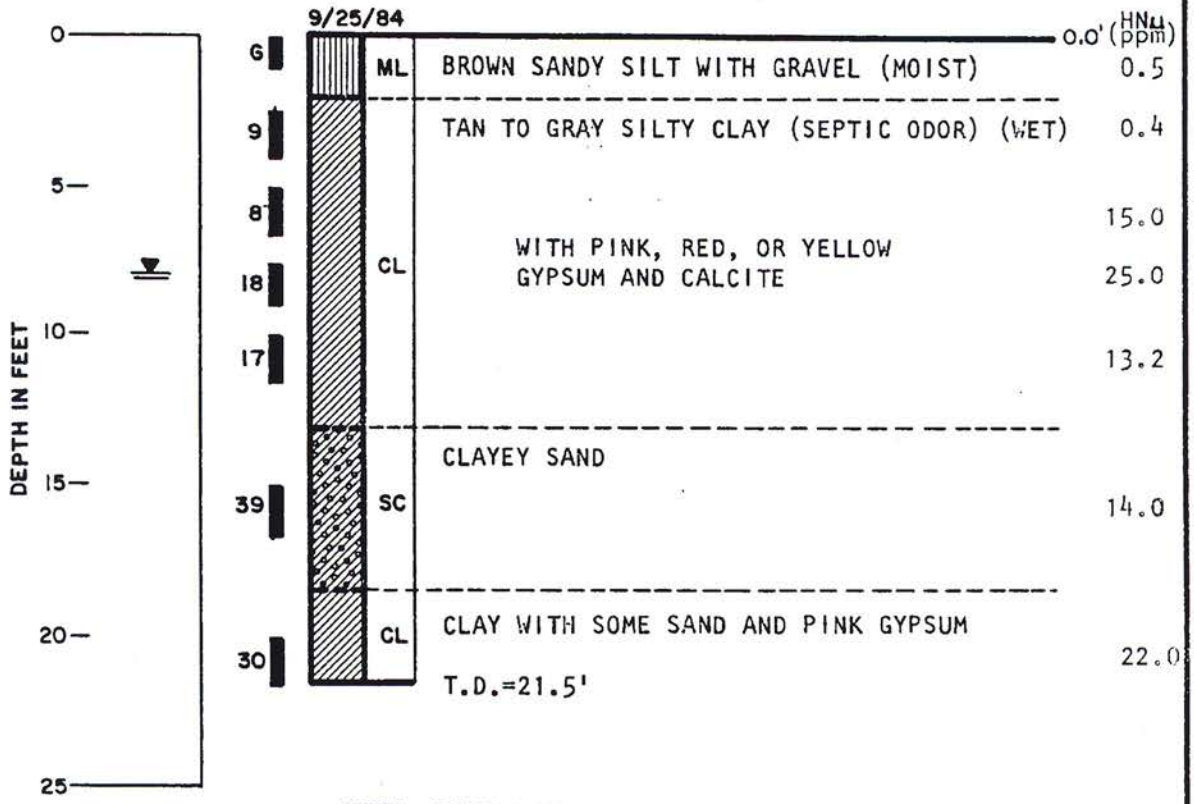
NOTE: WATER ENCOUNTERED DURING DRILLING AT 8.8 FEET.

LOG OF BORING

Dames & Moore

PLATE C-12

HOLLOMAN AFB
BORING 18-W1



NOTE: STATIC WATER LEVEL MEASURED 10/2/84.

LOG OF BORING

Dames & Moore

PLATE C-13

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION 4074.8

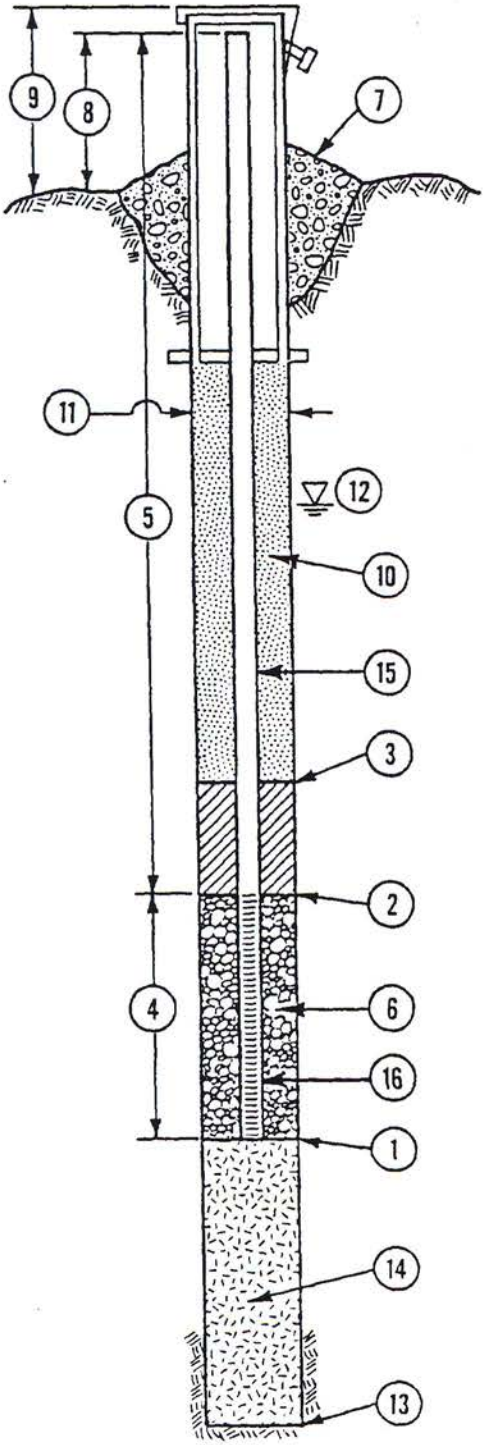
TOP OF WELL CASING ELEVATION 4078.15

JOB NUMBER 01016-210-07

BORING NUMBER 18-W1

DATE 9/25/84

LOCATION Hollomon AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 21.5 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 8 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 5 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 23 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE gravel.
7. CONCRETE CAP. YES NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 3.3 FEET.
9. PROTECTIVE CASING? YES NO (CIRCLE ONE) HEIGHT ABOVE GROUND ____ FEET. LOCKING CAP? YES NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL concrete.
11. BOREHOLE DIAMETER 7.25 INCHES.
12. DEPTH TO GROUND WATER 8.31 FEET.**
13. TOTAL DEPTH OF BOREHOLE 21.5 FEET.*
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL Sch 40 PVC. Screw Joint
16. SCREEN MATERIAL Sch 40 PVC. MACHINE CUT

*(DEPTH FROM GROUND SURFACE)

**(DEPTH FROM TOP OF PROTECTIVE CASING)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

Appendix A-3

Portions of *Final Release Assessment Report Site SS-18 Holloman Air Force Base New Mexico*

NationView, LLC, February 2011

FINAL

RELEASE ASSESSMENT REPORT

SITE SS-18
HOLLOMAN AIR FORCE BASE
NEW MEXICO

Prepared for:

49 CES/CEA
Holloman Air Force Base
New Mexico

Under Contract to:

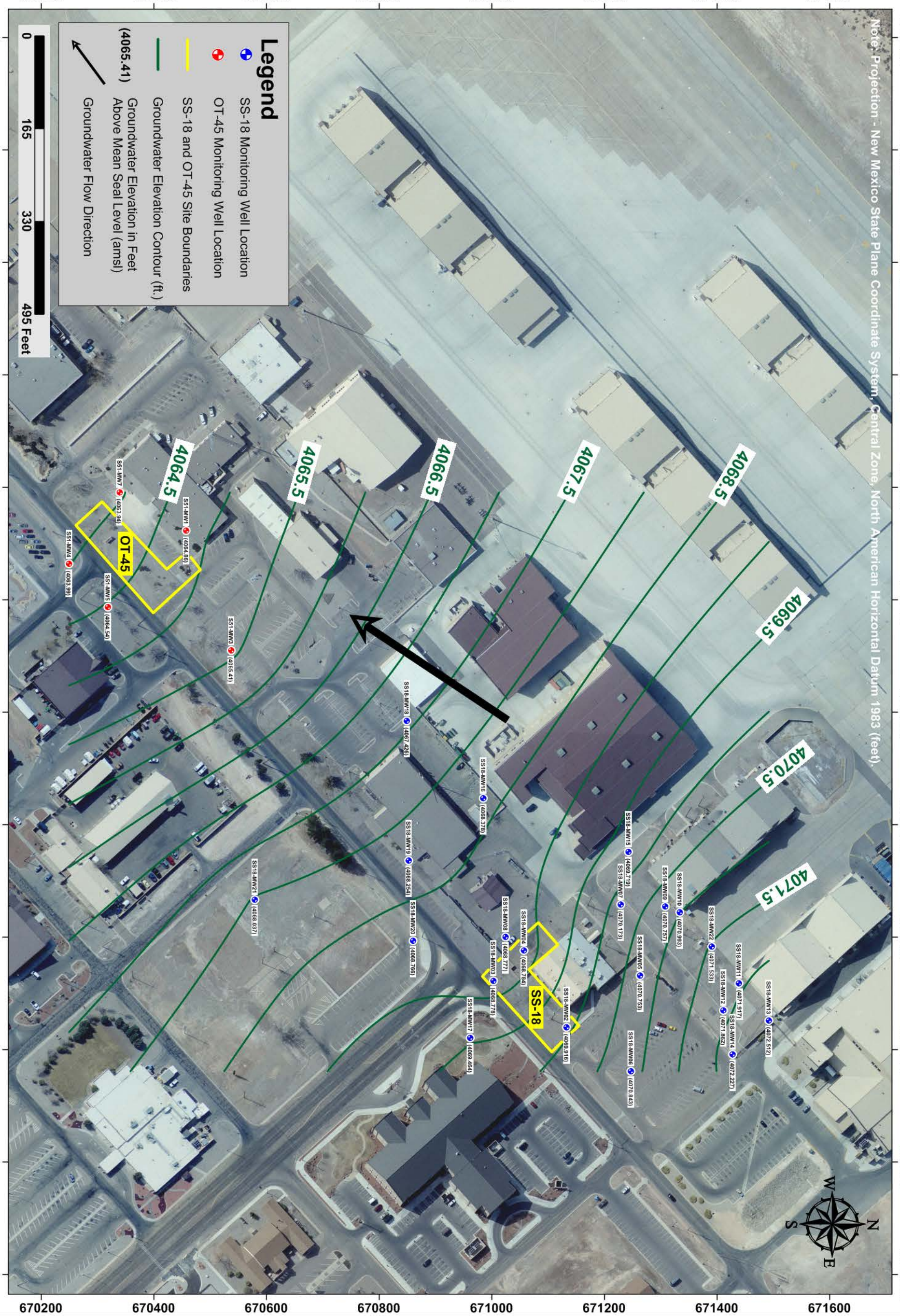
U.S. Army Corps of Engineers-
Omaha District
1616 Capitol Avenue
Omaha, Nebraska 68102-1618

Prepared by:

NationView, LLC
1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project No. 8090010

Contract No. W9128F-09-D-0019
Task Order No. 03

February 2011



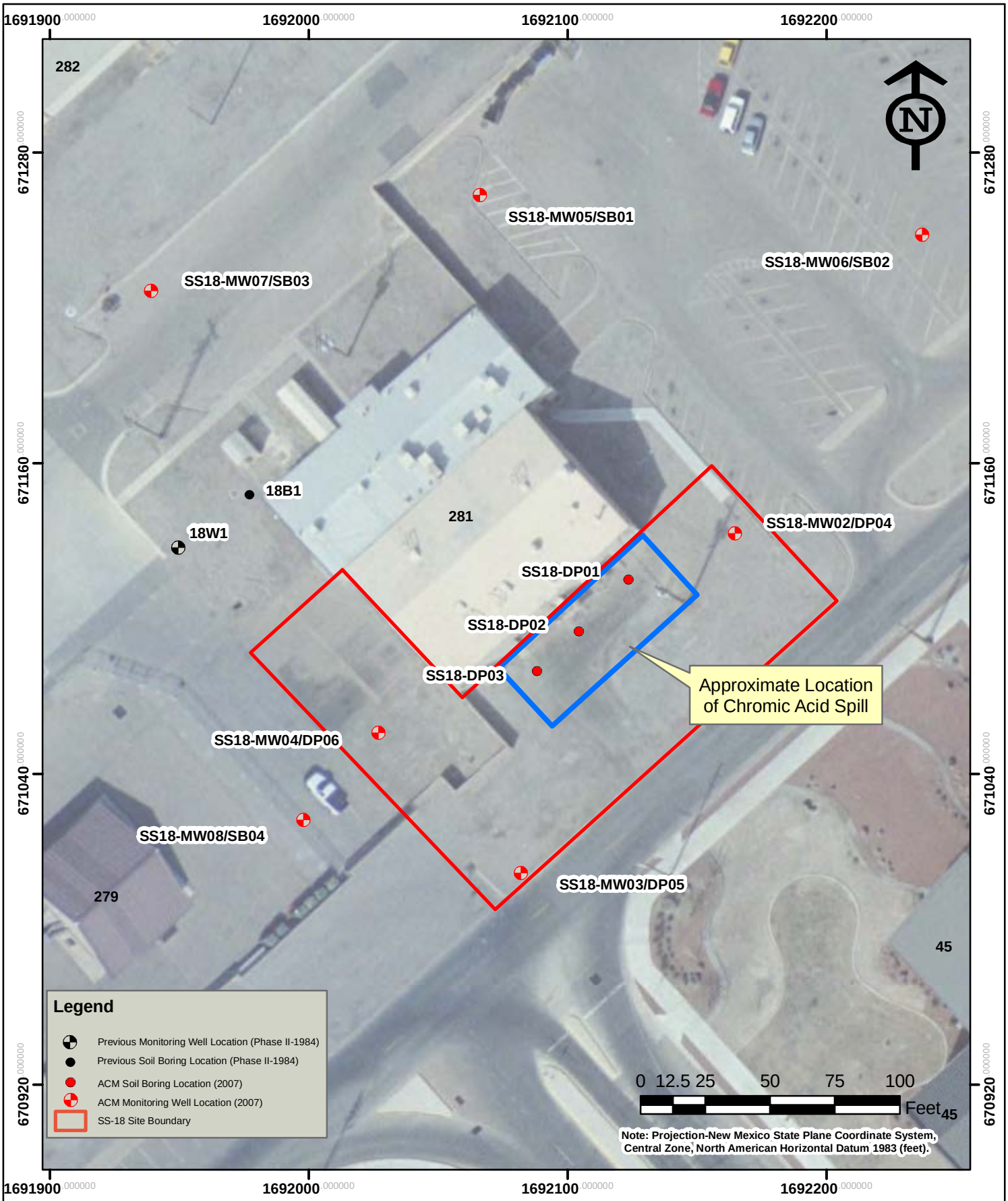
NATIONVIEW

SS-18 / OT-45
Potentiometric Surface Map
(November 2009)

PROJECT NO.	SCALE	DATE	DRAWN BY:	dtm
8090010	1" = 165'	9/30/2010	DRAWING NO:	Fig. 3-8

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 3-8



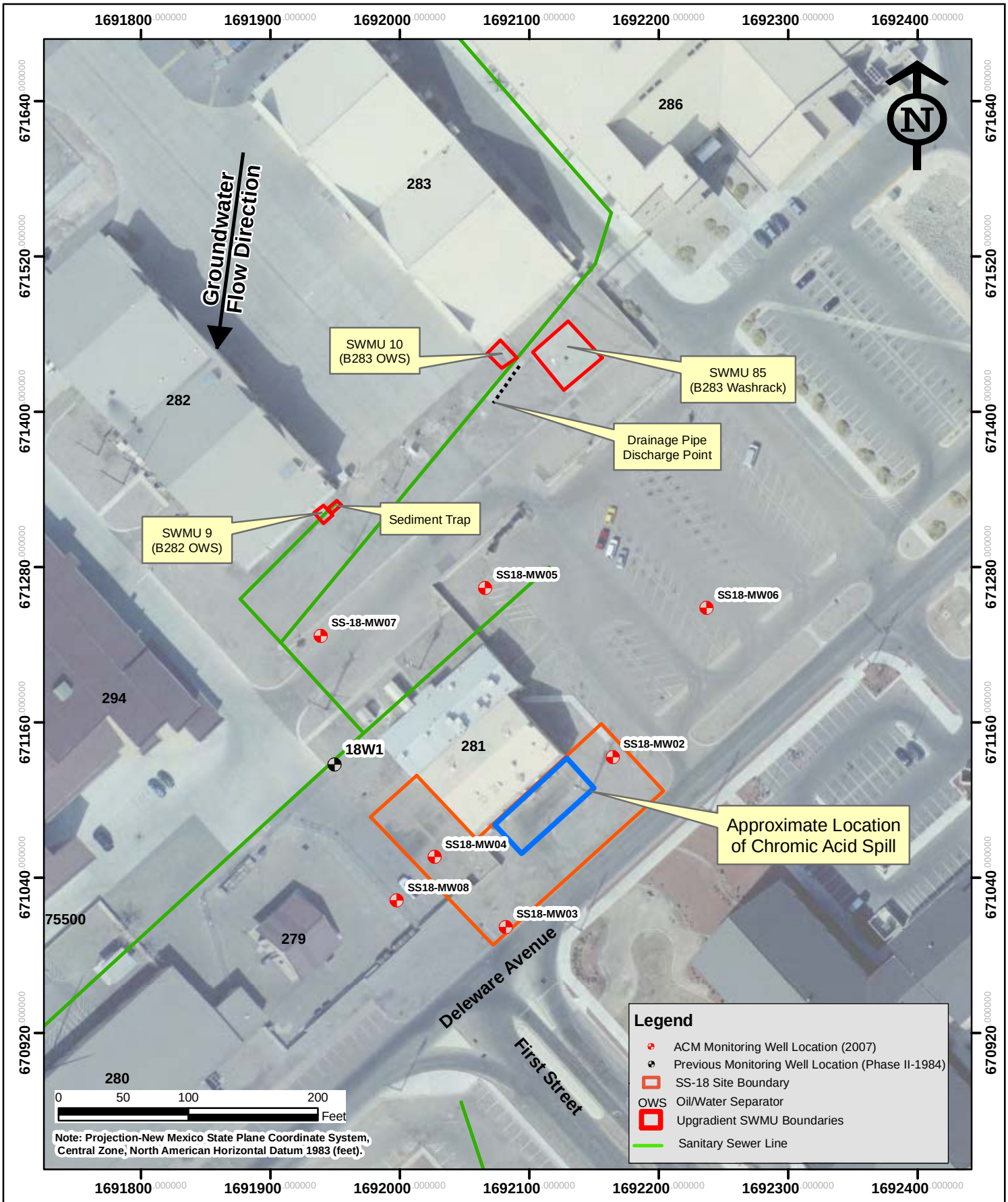
NATIONVIEW

SS-18
ACM and Previous Sampling Locations (2007)

8090010	1"=50'	9/30/10	cm fig4-1

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 4-1



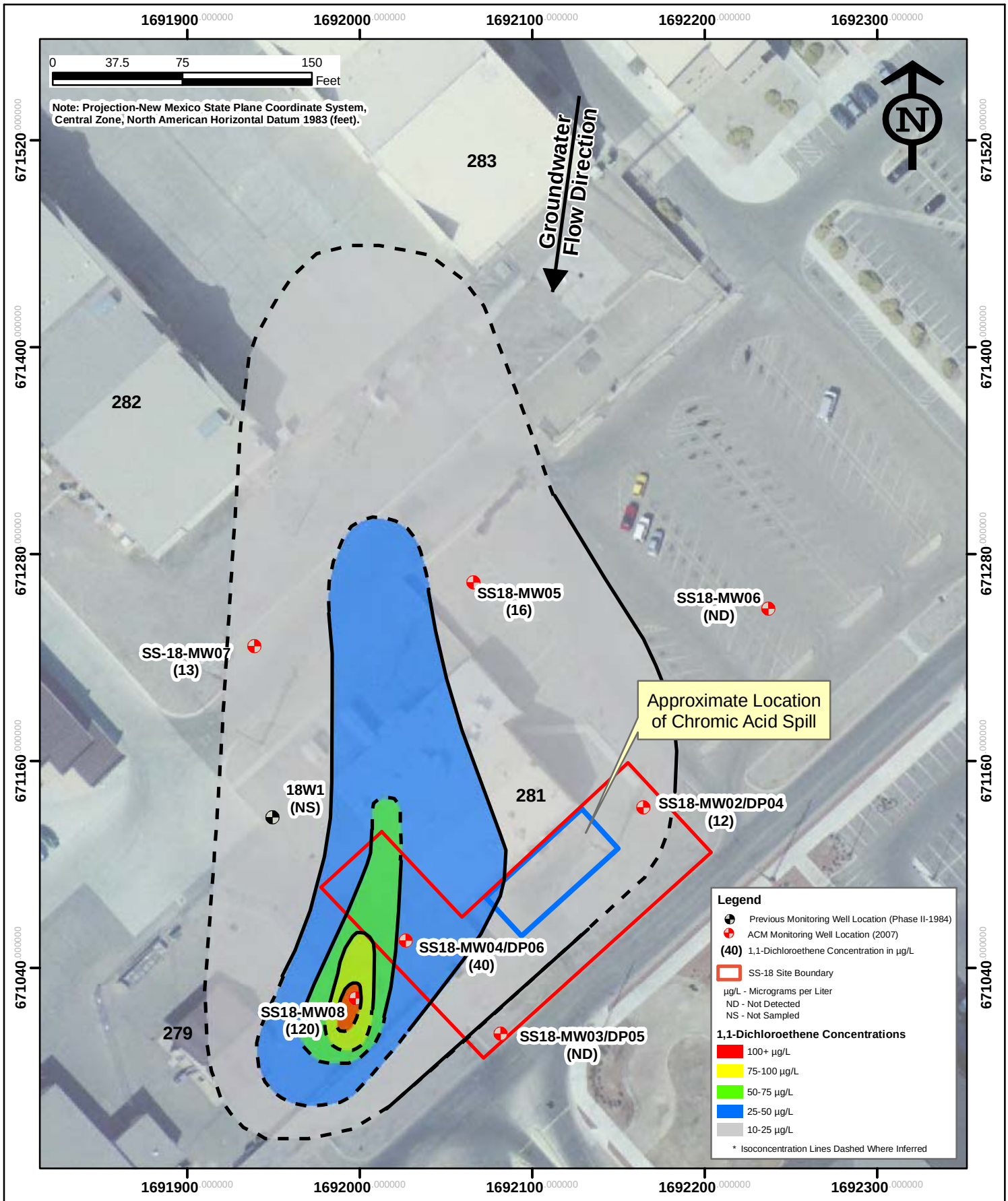
NATIONVIEW

SS-18
Upgradient SWMUs

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090010	1"=100'	10/1/10	DRAWING NO: fig4-2

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 4-2



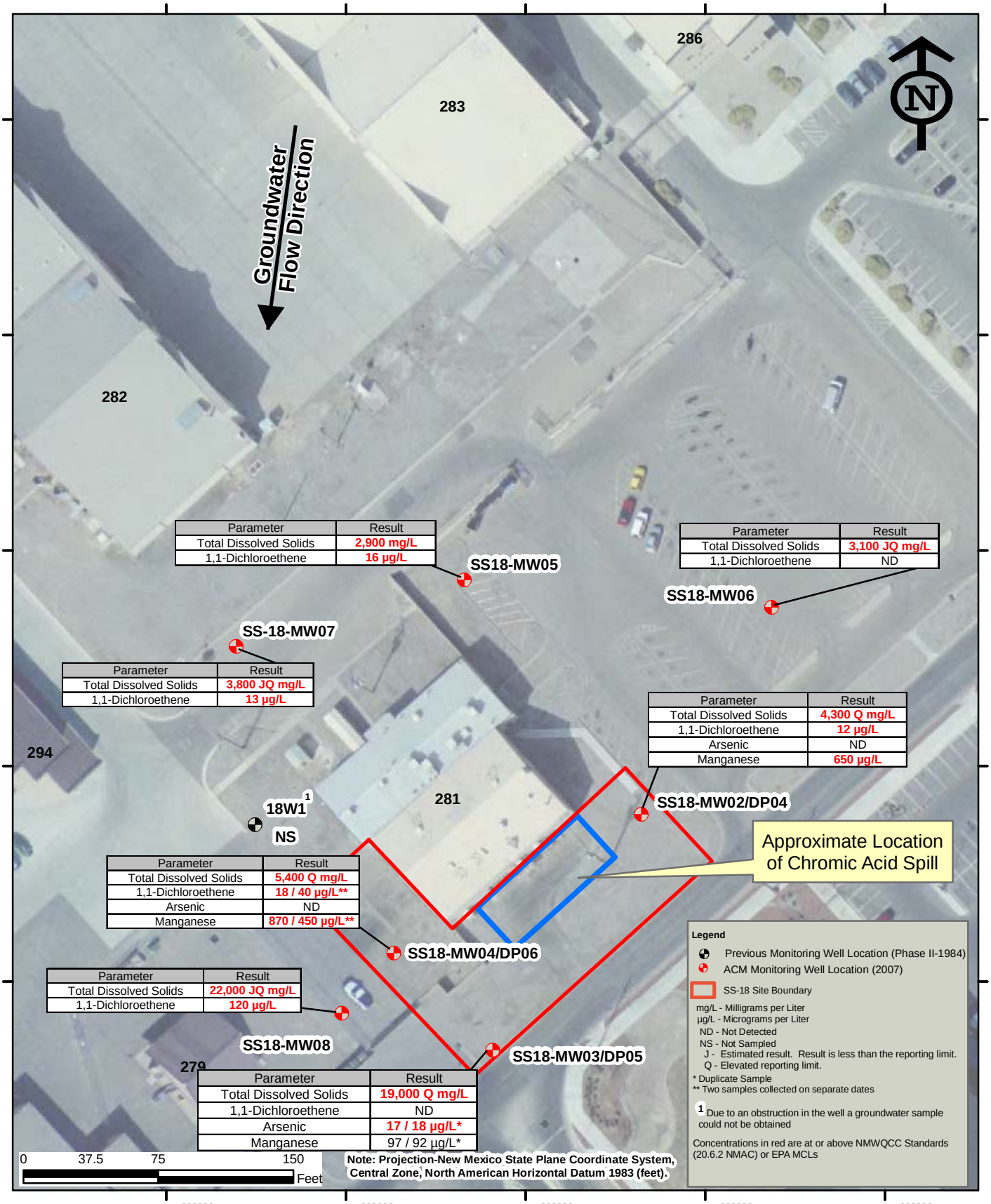
NATIONVIEW

SS-18
1,1-Dichloroethene Isocontour Map (2007)

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090010	1"=75'	4/12/10	DRAWING NO: fig6-1

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 6-1



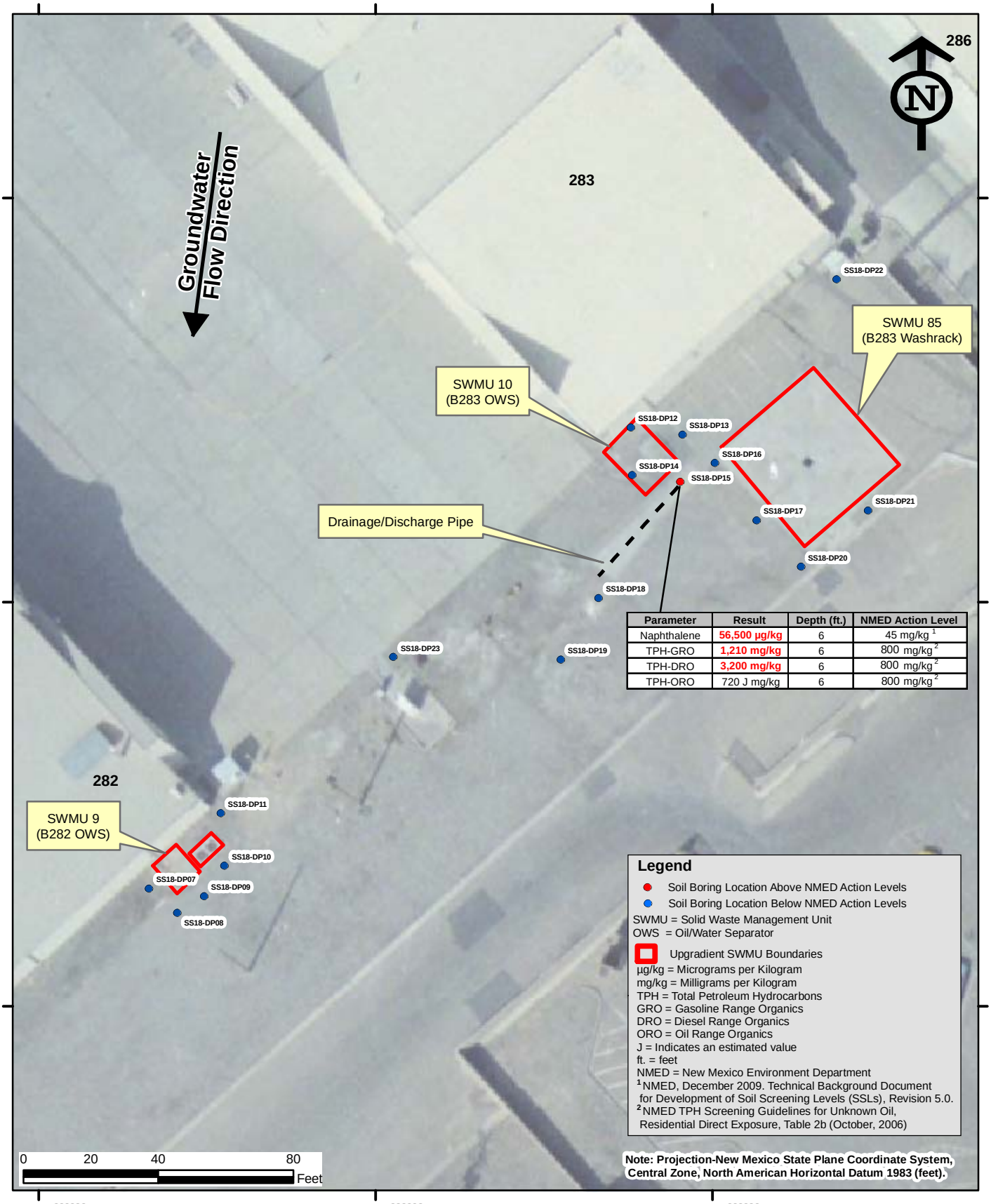
NATIONVIEW

SS-18
Groundwater Analytical Results
(2007)

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090010	1"=75'	4/12/10	DRAWING NO: fig6-2

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 6-2



Parameter	Result	Depth (ft.)	NMED Action Level
Naphthalene	56,500 µg/kg	6	45 mg/kg [1]
TPH-GRO	1,210 mg/kg	6	800 mg/kg [2]
TPH-DRO	3,200 mg/kg	6	800 mg/kg [2]
TPH-ORO	720 J mg/kg	6	800 mg/kg [2]

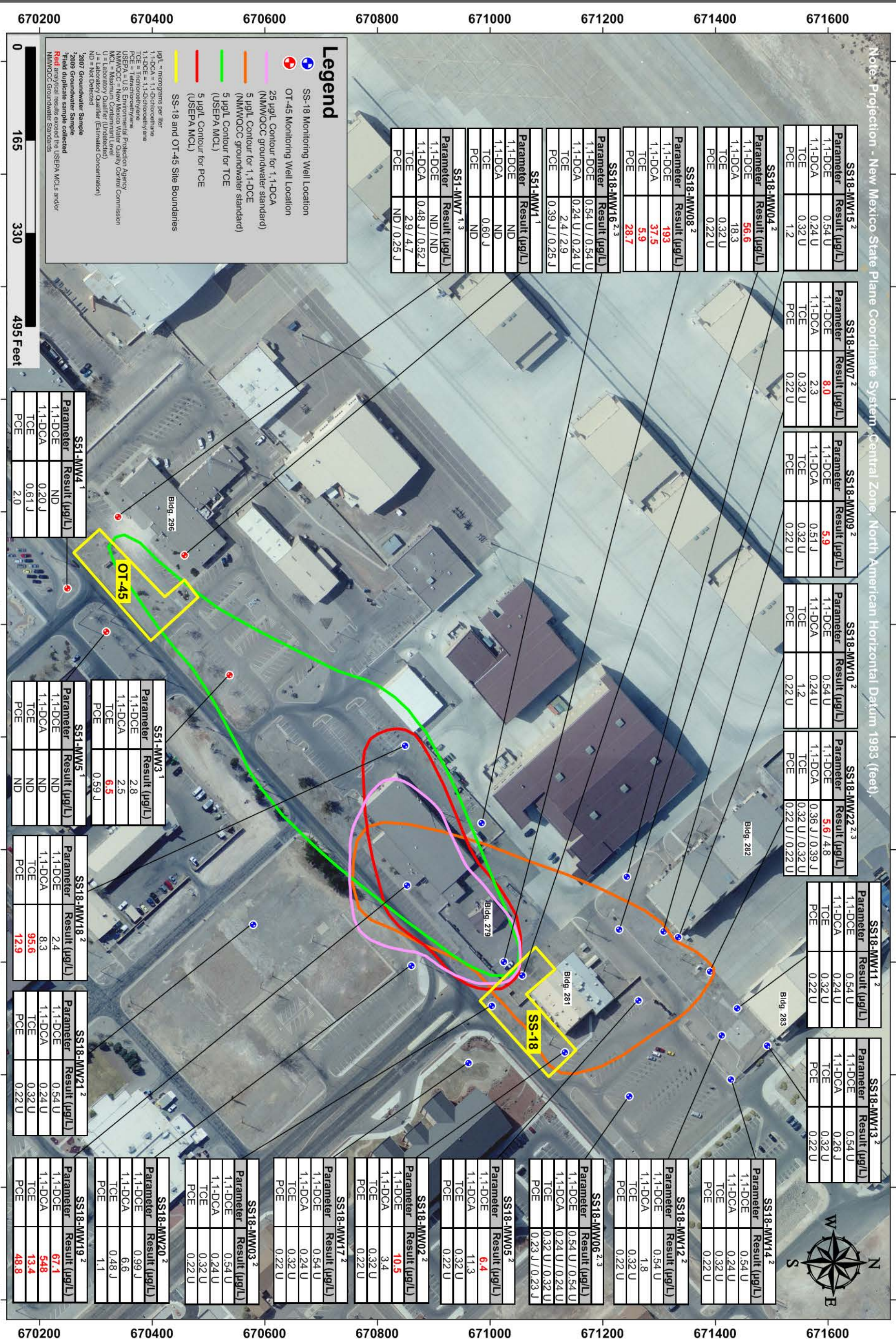
NATIONVIEW

SS-18
ACM Addendum Soil Analytical Results Exceding NMED Action Levels

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090010	1"=40'	9/30/10	DRAWING NO: fig6-3

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 6-3



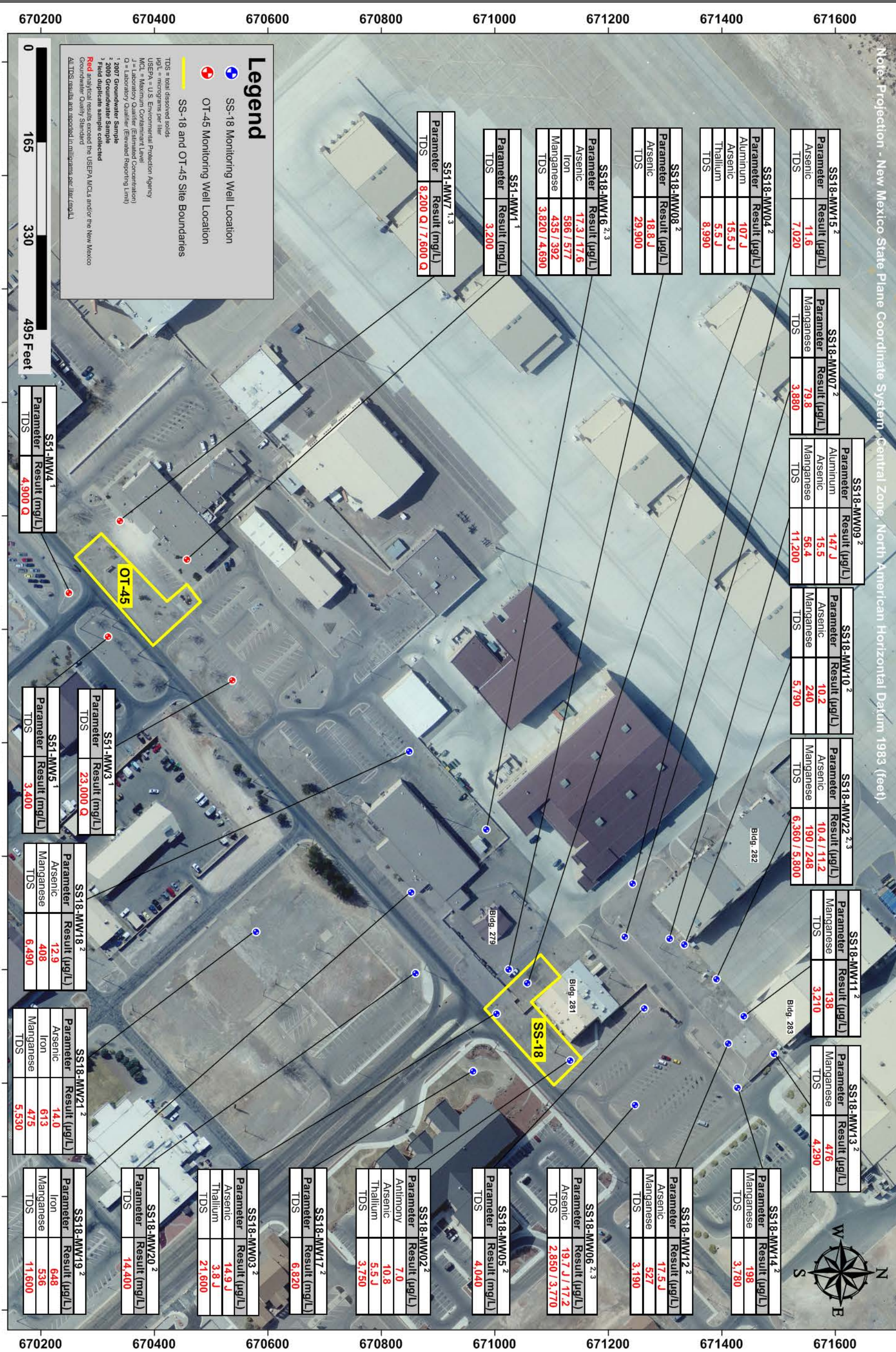
NATIONVIEW

SS-18 / OT-45
VOC (1,1-DCA, 1,1-DCE, TCE, and PCE)
Groundwater Isoconcentration Map

PROJECT NO.	SCALE	DATE	DRAWN BY:	dtm
8090010	1" = 165'	9/30/2010	DRAWING NO:	Fig. 6-4

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 6-4



NATIONVIEW

SS-18 / OT-45
Inorganic Groundwater Analytical Results
Exceeding Action Levels

PROJECT NO.	SCALE	DATE	DRAWN BY:	dtm
8090010	1" = 165'	9/30/2010	DRAWING NO:	Fig. 6-5

SS-18
Release Assessment Report
Holloman AFB, New Mexico

Figure 6-5

Table 3-2
Survey Data and Groundwater Elevation Summary (November 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Site	Well	Northing	Easting	Elevation TOC (ft above msl)	DTW from TOC (ft below TOC)	Groundwater Elevation November 11, 2009 (ft above msl)
SS-18	SS18-MW02	671135.388	1692158.976	4077.646	7.73	4,069.916
	SS18-MW03	671005.247	1692074.775	4074.418	5.64	4,068.778
	SS18-MW04	671060.143	1692020.331	4075.024	6.24	4,068.784
	SS18-MW05	671267.576	1692066.568	4076.003	5.25	4,070.753
	SS18-MW06	671250.258	1692237.183	4078.773	7.93	4,070.843
	SS18-MW07	671232.186	1691939.095	4074.893	4.72	4,070.173
	SS18-MW08	671027.264	1691995.371	4074.167	5.39	4,068.777
	SS18-MW09	671312.003	1691942.341	4076.477	5.72	4,070.757
	SS18-MW10	671338.229	1691952.931	4077.123	6.13	4,070.993
	SS18-MW11	671443.009	1692079.395	4078.087	6.17	4,071.917
	SS18-MW12	671415.193	1692128.043	4078.212	6.35	4,071.862
	SS18-MW13	671497.299	1692145.906	4078.912	6.40	4,072.512
	SS18-MW14	671432.328	1692206.935	4079.447	7.22	4,072.227
	SS18-MW15	671245.965	1691844.741	4074.179	4.46	4,069.719
	SS18-MW16	670987.556	1691748.860	4073.718	5.34	4,068.378
	SS18-MW17	670964.402	1692177.892	4076.414	6.95	4,069.464
	SS18-MW18	670850.933	1691611.447	4072.626	5.20	4,067.426
	SS18-MW19	670855.070	1691860.524	4073.984	5.73	4,068.254
	SS18-MW20	670862.929	1692003.347	4073.626	4.86	4,068.766
	SS18-MW21	670580.212	1691929.689	4073.937	5.90	4,068.037
	SS18-MW22	671394.791	1692014.096	4076.813	5.28	4,071.533
OT-45	S51-MW1	670457.310	1691277.000	4071.54	6.68	4,064.86
	S51-MW3	670537.310	1691490.000	4071.03	5.62	4,065.41
	S51-MW4	670249.310	1691336.000	4070.83	6.84	4,063.99
	S51-MW5	670318.310	1691413.000	4,070.19	5.65	4,064.54
	S51-MW7	670339.310	1691209.000	4069.87	5.93	4,063.94

Notes:
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level
SS18 = Spill Site SS-18 (Chromic Acid Spill Site)
OT45 = Old AGE Refueling Station Site
MW = Monitoring Well

Table 6-1
Soil Analytical Results (June 2007)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP01-4	SS18-DP01-4A	SS18-DP02-3	SS18-DP03-3	SS18-DP04-5	SS18-DP05-5	SS18-DP06-5
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	D7F060363-013	D7F060363-014	D7F060363-015	D7F060363-016	D7F070201-008	D7F080187-020	D7F080187-021
Date Sampled:			6/4/2007	6/4/2007	6/4/2007	6/4/2007	6/5/2007	6/6/2007	6/6/2007
Analyte (Method)			Result	Result	Result	Result	Result	Result	Result
General Chemistry (160.3 MOD)	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV [3]	NV	24	31	26	18	26	17	22
TAL Metals Analysis (6010B)	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	78,100	13,722.27	3,300	1,700	3,900	6,800	2,500 J	6,200 J	3,300 J
Arsenic	3.9	3.66	1.8 J	1.4 J	1.5 J	2.0 J	1.3 J	1.7 J	2.4 J
Barium	15,600	169.25	22	14	87	67	35	27	54
Beryllium	156	1.53	ND	ND	ND	0.25 J	ND	0.20 J	ND
Cadmium	77.9	0.28	ND	ND	ND	0.20 J	0.13 J	0.063 J	0.053 J
Calcium	NV [3]	317,331.59	150,000 J	210,000 J	180,000 J	140,000 J	210,000 J	180,000 J	200,000 J
Chromium	219	24.95	3.6	1.9 J	3.7	8.0	4.4	6.2	3.0
Cobalt	23 [4]	7.70	1.4	0.69 J	1.2 J	2.4	1.2 J	1.6	1.0 J
Copper	3,130	12.96	1.7 J	0.89 J	3.0	5.6	3.2	2.1 J	2.4 J
Iron	54,800	23,049.48	3,000	1,400	3,000	6,300	2,200 J	4,400 J	2,400 J
Lead	400	10.87	3.4	3.1	3.7	9.9	12	3.5	2.5
Magnesium	NV [3]	16,990.65	2,000	1,600	3,600	12,000	4,200 J	4,300 J	1,800 J
Manganese	10,700	393.47	33	20	37	130	44	63	46
Nickel	1,560	17.34	3.4 J	1.5 J	2.8 J	6.4	4.5 J	4.8	2.7 J
Potassium	NV [3]	5,077.12	990	550	1,100	2,100	690	1,600	840
Sodium	NV [3]	5,195.97	220 J	230 J	380 J	540 J	740	290 J	710
Vanadium	391	42.53	15	11	10	16	8.2	12	8.8
Zinc	23,500	54.53	8.0 J	4.6 J	9.0 J	24 J	12	11	8.1
Hexavalent Chromium (7196)	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Chromium, Hexavalent	219	24.95	0.042 J	0.033 J	ND UJ	0.027 J	0.031 J	ND	0.040 J
Total Petroleum Hydrocarbons (8015B)	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	800 [5]	NV	1.0 J	1.2 J	1.7 J	1.0 J	0.88 J	0.80 J	0.72 J
Diesel Range Organics (C10-C22)	800 [5]	NV	2.3 J	2.5 J	2.3 J	5.5 J	2.4 J	2.0 J	2.2 J
Oil Range Organics (>C22-C36)	800 [5]	NV	ND	ND	ND	46	16	ND	ND
Volatile Organic Compounds (8260B)	**mg/kg**	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
1,1-Dichloroethane	62.9	NV	ND	ND	ND	ND	ND	ND	0.39 J
Hexachlorobutadiene	61.1	NV	0.87 J	ND	ND	ND	ND	ND	ND
Naphthalene	45	NV	1.4 J	1.0 J	ND	ND	ND	ND	1.2 J
Semi-Volatile Organic Compounds (8270C)	**mg/kg**	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Benzo(a)anthracene	6.21	NV	45 J	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	347	NV	ND	ND	ND	ND	74 J	ND	ND
Chrysene	621	NV	48 J	ND	ND	ND	ND	ND	ND

Notes:

NMED = New Mexico Environment Department
TAL = Target Analyte List
UTL = Upper Tolerance Limit
% = Percent
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ND = Not Detected
NV = No Value

Client Sample Nomenclature
SS18 = Chromic Acid Spill Site 18
DP = Direct Push
A = Sample suffix denoting a Field Duplicate
The final digit equals the depth of the sample interval (feet below ground surface)

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels, Revision 5.0.
[2] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[3] No Value established for NMED Residential SSL (Dec 2009) and USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (Dec 2009)
[4] USEPA Regions 3, 6, and 9 RSLs (December 2009)
[5] NMED TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, Table 2b (October 2006)

Bold value indicates analytes above NMED SSLs (Rev 5.0, Dec 2009) or TPH results above NMED TPH Screening Guidelines (Oct 2006)
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL and/or USEPA RSLs

Qualifiers
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist.
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.

Table 6-2
Soil Geotechnical Results (June 2007)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Sample Identification	**Method**	**Unit**	**SS18-DP04-6**	**SS18-DP06-7**	**Average**
Depth (ft bgs)			**5-6**	**6-7**	
Date sampled			**6/5/2007**	**6/6/2007**	
Parameter					
Bulk Density (Dry Basis)	ASTM D2937-94 M	g/mL	1.3	1.4	1.350
Fractional Organic Carbon	ASTM D2974-87	%	7.6	8.4	8.000
Moisture Content (Solids, Percent)	EPA 160.3	%	74.1	85.5	79.800
Specific Gravity	ASTM 1429		1.8	1.8	1.800

Notes:
ASTM - American Society for Testing and Materials
EPA - Environmental Protection Agency
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent
SS18 = Chromic Acid Spill Site 18
DP = Direct Push

Table 6-3
Groundwater Analytical Results (June - October 2007)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	SS18-MW02	SS18-MW03	SS18-MW03-A	SS18-MW04	SS18-MW04	SS18-MW04	SS18-MW05	SS18-MW06	SS18-MW07	SS18-MW08
Lab Sample Identification:	NMWQCC [1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	D7F120221-001	D7F090156-001	D7F090156-002	D7F090156-005	D7F120221-009	D7G260168-012	D7J200226-003	D7J200226-004	D7J200226-005	D7J200226-006
Date Sampled:				6/9/2007	6/8/2007	6/8/2007	6/8/2007	6/10/2007	7/25/2007	10/18/2007	10/19/2007	10/19/2007	10/19/2007
Analyte (Method)				Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry (160.1)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Total Dissolved Solids	1,000	500 [4]	65,956.58 [5]	4,300 Q	19,000 Q	19,000 Q	NS	NS	5,400 Q	2,900	3,100 J Q	3,800 J Q	22,000 J Q
TAL Metals Analysis (6010B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Arsenic	100	10	28.53	ND	17	18	NS	ND	ND	NS	NS	NS	NS
Barium	1,000	2,000	30.13	26	22	22	NS	70	48	NS	NS	NS	NS
Calcium	NV	NV	1,151,301.20	490,000 J	610,000 J	640,000 J	NS	610,000 J	590,000 J	NS	NS	NS	NS
Cadmium	10	5	2.41	0.62 J	0.80 J	0.83 J	NS	1.0 J	1.6 J	NS	NS	NS	NS
Cobalt	50	NV	2.6	2.8 J	1.3 J	1.3 J	NS	4.6 J	5.0 J	NS	NS	NS	NS
Copper	1,000	1,300	57.46	7.3 J	5.5 J	ND	NS	17	11 J	NS	NS	NS	NS
Iron	1,000	300 [4]	65.56	ND	93 J	51 J	NS	ND	68 J	NS	NS	NS	NS
Potassium	NV	NV	120,479.98	13,000 J	24,000 J	25,000 J	NS	24,000 J	22,000	NS	NS	NS	NS
Magnesium	NV	NV	3,630,926.70	250,000	920,000	980,000	NS	420,000	290,000	NS	NS	NS	NS
Manganese	200	50 [4]	118.65	**650**	97	92	NS	**870**	**450**	NS	NS	NS	NS
Sodium	NV	NV	19,972,499.00	420,000	4,100,000	4,300,000	NS	1,500,000	1,100,000	NS	NS	NS	NS
Nickel	200	NV	15.89	14 J	ND	ND	NS	23 J	21 J	NS	NS	NS	NS
Lead	50	15	2.6	ND	ND	ND	NS	ND	5.8 J	NS	NS	NS	NS
Selenium	50	50	25.26	ND	ND	7.0 J	NS	ND	6.2 J	NS	NS	NS	NS
Vanadium	NV	NV	73.73	12	68	72	NS	5.3 J	37	NS	NS	NS	NS
Zinc	10,000	5,000 [4]	56.28	38	25	5.9 J	NS	45	59 J	NS	NS	NS	NS
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Acetone	NV	NV	NV	ND	ND	ND	ND	NS	ND	ND	2.5 J	ND	ND
Benzene	10	5	NV	ND	ND	ND	0.82 J	NS	0.25 J	ND	ND	ND	ND
Chloroform	100	NV	NV	5.1	0.41 J	0.42 J	3.2	NS	4.7	2.0	14	4.8	3.2 J
Chloromethane	NV	NV	NV	0.53 J	ND	ND	1.4 J	NS	0.33 J	ND	ND	ND	ND
1,1-Dichloroethane	25	NV	NV	8.2	ND	ND	15	NS	22	20	ND	4.1	20
1,2-Dichloroethane	10	5	NV	0.14 J	ND	ND	1.1	NS	1.2	ND	ND	ND	ND
1,1-Dichloroethene	5	7	NV	**12**	ND	ND	**18**	NS	**40**	**16**	ND	**13**	**120**
Methylene chloride	100	5	NV	ND	ND	ND	0.47 J	NS	0.68 J	ND	ND	ND	1.6 J
Tetrachloroethene	20	5	NV	ND	ND	ND	ND	NS	ND	ND	ND	ND	1.1 J
Toluene	750	1,000	NV	ND	ND	ND	0.72 J	NS	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	60	200	NV	3.9	ND	ND	ND	NS	ND	11	ND	1.2	ND
sec-Butylbenzene	NV	NV	NV	ND	ND	ND	ND	NS	ND	ND	ND	3.5	ND
tert-Butylbenzene	NV	NV	NV	ND	ND	ND	ND	NS	ND	ND	ND	0.23 J	ND
4-Isopropyltoluene	NV	NV	NV	ND	ND	ND	ND	NS	ND	1.3	0.67 J	1.2	1.3 J
Naphthalene	30	NV	NV	ND	ND	ND	ND	NS	ND	ND	ND	0.57 J	ND
Semi-Volatile Organic Compounds (8270C)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
bis(2-Ethylhexyl)phthalate	NV	NV	NV	1.6 J	ND	ND	NS	NS	5.5 J	NS	NS	NS	NS

Notes:

NMWQCC = New Mexico Water Quality Control Commision
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
ND = Not Detected
NS = Not Sampled
NV = No Value established

Client Sample Nomenclature
SS18 = Chromic Acid Spill Site 18
MW = Monitoring Well Sample
A = Sample suffix denoting a Field Duplicate

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[4] USEPA Secondary Drinking Water Standard
[5] Value established in the *Basewide Background Study Report* (NationView/Bhate JV III, October 2009) for Total Dissolved Solids is derived from Total Groundwater UTL.

Bold value indicates analytes above the NMWQCC Standards or the USEPA MCLs
Indicates analytical results above the NMWQCC Standard, or USEPA MCL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMWQCC Standard, or USEPA MCL

Qualifiers
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist.
Q = Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

Table 6-4
Soil Anaytical Results (August 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP07-3			SS18-DP07-8			SS18-DP08-3			SS18-DP08-8			SS18-DP09-3			SS18-DP09-8			SS18-DP10-3			SS18-DP10-7			SS18-DP11-4		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL [2]	F67464-9			F67464-10			F67464-11			F67464-12			F67464-7			F67464-8			F67464-5			F67464-6			F67464-3		
Date Sampled:			8/20/2009			8/20/2009			8/20/2009			8/20/2009			8/19/2009			8/19/2009			8/19/2009			8/19/2009			8/19/2009		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (8026B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	67,500	NV	31	U		25	U		27	U		28	U		24	U		28	U		28	U		26	U		24	U	
Acetonitrile	870 [4]	NV	20	U		16	U		17	U		18	U		16	U		18	U		18	U		17	U		15	U	
n-Butylbenzene	NV [5]	NV	1.7	U		1.4	U		1.5	U		1.5	U		1.4	U		1.6	U		1.6	U		44.3			1.3	U	
sec-Butylbenzene	NV [5]	NV	1.4	U		1.1	U		1.2	U		1.2	U		1.1	U		1.2	U		1.2	U		28.9			1.0	U	
Carbon disulfide	1,940	NV	1.4	U		1.1	U		1.2	U		1.2	U		1.1	U		1.2	U		1.2	U		4.2	J		1.0	U	
1,1-Dichloroethane	62.9	NV	2.5	U		2.0	U		2.2	U		2.2	U		1.9	U		2.3	U		2.2	U		2.1	U		1.9	U	
1,1-Dichloroethylene	618	NV	1.6	U		1.3	U		1.4	U		1.4	U		1.3	U		1.5	U		1.4	U		1.3	U		1.2	U	
Ethylbenzene	69.7	NV	1.2	U		1.0	U		1.1	U		1.1	U		0.97	U		1.1	U		1.1	U		39.7			0.94	U	
2-Hexanone	210 [4]	NV	6.1	U		5.1	U		5.4	U		5.5	U		4.9	U		5.7	U		5.6	U		5.2	U		4.7	U	
Isopropylbenzene	3,210	NV	1.4	U		1.1	U		1.2	U		1.2	U		1.1	U		1.2	U		1.2	U		18.4			1.0	U	
p-Isopropyltoluene	NV [5]	NV	1.4	U		1.1	U		1.2	U		1.2	U		1.1	U		1.2	U		1.2	U		30.4			1.0	U	
Methylene chloride	199	NV	6.1	U		7.1	J		5.4	U		5.5	U		6.2	J		5.7	U		5.6	U		7.8	J	J	11.9		J
Naphthalene	45	NV	2.5	U		2.0	U		2.2	U		2.2	U		1.9	U		2.3	U		2.2	U		119			1.9	U	
n-Propylbenzene	NV [5]	NV	1.5	U		1.2	U		1.3	U		1.3	U		1.2	U		1.4	U		1.3	U		46.9			1.1	U	
1,1,1-Trichloroethane	21,800	NV	1.4	U		1.1	U		1.2	U		1.2	U		1.1	U		1.2	U		1.2	U		1.1	U		1.0	U	
1,2,4-Trimethylbenzene	62 [4]	NV	1.2	U		1.0	U		1.1	U		1.1	U		0.97	U		1.1	U		1.1	U		102			0.94	U	
1,3,5-Trimethylbenzene	780 [4]	NV	1.2	U		1.0	U		1.1	U		1.1	U		0.97	U		1.1	U		1.1	U		19.2			0.94	U	
Toluene	5,570	NV	1.2	U		1.0	U		1.1	U		1.1	U		0.97	U		1.1	U		1.1	U		1.0	U		0.94	U	
m,p-Xylene	NV [5]	NV	2.3	U		1.9	U		2.1	U		2.1	U		1.8	U		2.2	U		2.1	U		15.5			1.8	U	
o-Xylene	9,550	NV	1.2	U		1.0	U		1.1	U		1.1	U		0.97	U		1.1	U		1.1	U		1.8	J		0.94	U	
Semi-Volatile Organic Compounds (8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Benzo(b)fluoranthene	6.21	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Chrysene	621	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
bis(2-Ethylhexyl)phthalate	347	NV	190	U		190	U		200	U		200	U		190	U		200	U		200	U		200	U		180	U	
Fluoranthene	2,290	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Fluorene	2,290	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
2-Methylnaphthalene	310 [4]	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Naphthalene	45	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Phenanthrene	1,830	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Pyrene	1,720	NV	39	U		38	U		39	U		41	U		38	U		40	U		40	U		40	U		36	U	
Total Petroleum Hydrocarbons (8015M)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	800 [6]	NV	3.4	U		3.0	U		3.3	U		3.4	U		2.9	U		3.5	U		3.3	U		22.6		J	2.7	U	
Diesel Range Organics (C10-C22)	800 [6]	NV	5.7	U		5.7	U		5.9	U		6.1	U		5.7	U		5.9	U		5.8	U		5.9	U		5.4	U	
Oil Range Organics (>C22-C36)	800 [6]	NV	5.7	U		5.7	U		5.9	U		6.1	U		5.7	U		5.9	U		7.13	J		5.9	U		5.4	U	
PCBs (8082)	**mg/kg**	**mg/kg**	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
ALL PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	458			3,540			1,320			2,370			7,190			3,540			2,190			3,590			5,180		
Antimony	31.3	0.42	2.7	U	UJ	2.7	U	UJ	2.8	U	UJ	2.9	U	UJ	1.3	U	UJ	2.8	U	UJ	2.8	U	UJ	2.7	U	UJ	2.6	U	UJ
Arsenic	3.9	3.66	2.0	U		2.0	U		2.1	U		2.2	U		1.7	J		2.1	U		2.5	J		2.1	U		1.9	U	
Barium	15,600	169.25	15.1		J	33.4		J	15.0		J	62.2		J	92.3		J	35.6		J	34.4		J	36.1		J	80.6		J
Beryllium	156	1.53	0.12	J		0.29			0.17	J		0.27	J		0.43			0.29			0.18	J		0.27	J		0.44		
Cadmium	77.9	0.28	0.28	U		0.28	U		0.29	U		0.30	U		0.28	U		0.29	U		0.29	U		0.29	U		0.36		
Calcium	NV [5]	317,331.59	153,000		J	147,000		J	204,000		J	172,000		J	112,000		J	155,000		J	191,000		J	155,000		J	181,000		J
Chromium	219	24.95	0.18	U		2.8			0.67			1.8			4.9			2.8			1.3			3.6			5.2		
Cobalt	23 [4]	7.70	0.68	J		1.1	J		0.69	J		0.81	J		2.0	J		1.1	J		0.99	J		1.2	J		2.3	J	J
Copper	3,130	12.96	1.6			1.4			2.0			2.5			4.0			1.2	J		1.5			2.2			5.6		
Iron	54,800	23,049.48	258		J	2,540		J	862		J	1,720		J	4,870		J	2,780		J	1,510		J	2,690		J	4,740		J
Lead	400	10.87	2.6	U		2.5	U		2.6	U		2.7	U		2.7	J		2.6	U		2.7	U		5.6	J		3.8	J	
Magnesium	NV [5]	16,990.65	1,890			3,500			2,250			3,470			6,020			1,830			1,200	J		2,410			7,200		
Manganese	10,700	393.47	5.8		J	37.3		J	13.3		J	19.6		J	84.8		J	35.8		J	23.7		J	67.2		J	195		J
Mercury	7.71	10.76	0.014	U		0.012	U		0.014	U		0.014	U		0.014	U		0.014	U		0.013	U		0.012	U		0.012	U	
Nickel	1,560	17.34	0.91	U		2.7	J		1.3	J		2.0	J		4.6	J		2.5	J		1.9	J		2.9	J		5.3		
Potassium	NV [5]	5,077.12	243	J		1,150			548	J		886			2,120			1,140			804			1,200			1,410		
Selenium	391	0.18	3.5	J		4.6	J		4.7	J		5.1	J		2.8	J		6.0	J		5.6	J		3.9	J		4.0	J	
Silver	391	65	0.068	U		0.067	U		0.070	U		0.073	U		0.067	U		0.070	U		0.071	U		0.068	U		0.064	U	
Sodium	NV [5]	5,195.97	304	J		389	J		235	J		336	J		330	J		271	J		236	J		232	J		298	J	
Vanadium	391	42.53	4.8		J	9.1		J	3.4		J	6.9		J	11.0		J	7.8		J	7.9		J	8.2		J	10.2		J
Zinc	23,500	54.53	1.2			7.7			2.9			4.4			15.5		J	7.8			5.2			15.6		J	31.1		J
General Chemistry (2540B M)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	85.5			86.7			83.8			81.6			86.5			83.3			83.1			83.5			92.9		

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
ND = All constituents not detected
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Client Sample Nomenclature
SS18 = Spill Site SS18,
DP = Direct Push
A = Field Duplicate
The final digit equals the depth of the sample interval (feet below ground surface)

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December, 2009)
[5] No Value established for NMED Residential SSL (December, 2009) and USEPA RSL (December, 2009)
[6] NMED TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, Table 2b (October 2006)
Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Indicates analytical results above the NMED Residential SSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Analyte detected in the associated method blank

Table 6-4
Soil Anaytical Results (August 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP11-7			SS18-DP12-3			SS18-DP12-8			SS18-DP12-8-A			SS18-DP13-4			SS18-DP13-8			SS18-DP14-3			SS18-DP14-7			SS18-DP14-7-A		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL [2]	F67464-4			F67408-12			F67408-13			F67408-21			F67380-1			F67380-2			F67433-3			F67433-4			F67433-5		
Date Sampled:			8/19/2009			8/18/2009			8/18/2009			8/18/2009			8/17/2009			8/17/2009			8/18/2009			8/18/2009			8/18/2009		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (8026B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	67,500	NV	25	U		29	U		26	U		26	U		29	U		25	U		26	U		28	U		27	U	
Acetonitrile	870 [4]	NV	16	U		23.3	J		17	U		16	U		18	U		16	U		16	U		18	U		17	U	
n-Butylbenzene	NV [5]	NV	1.4	U		1.6	U		1.5	U		1.4	U		1.6	U		1.4	U		1.4	U		1.5	U		1.5	U	
sec-Butylbenzene	NV [5]	NV	1.1	U		1.3	U		1.1	U		1.1	U		1.3	U		1.1	U		1.1	U		1.2	U		1.2	U	
Carbon disulfide	1,940	NV	1.1	U		1.3	U		1.1	U		1.1	U		1.3	U		1.1	U		1.1	U		1.2	U		1.3	J	
1,1-Dichloroethane	62.9	NV	2.0	U		2.3	U		2.1	U		2.0	U		2.3	U		2.0	U		2.1	U		2.2	U		2.1	U	
1,1-Dichloroethylene	618	NV	1.3	U		1.5	U		1.3	U		1.3	U		1.5	U		1.3	U		1.3	U		1.4	U		1.4	U	
Ethylbenzene	69.7	NV	1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.1	U	
2-Hexanone	210 [4]	NV	5.1	U		5.7	U		5.2	U		5.1	U		5.7	U		5.1	U		5.1	U		5.5	U		5.3	U	
Isopropylbenzene	3,210	NV	1.1	U		1.3	U		1.1	U		1.1	U		1.3	U		1.1	U		1.1	U		1.2	U		1.2	U	
p-Isopropyltoluene	NV [5]	NV	1.1	U		1.3	U		1.1	U		1.1	U		1.3	U		1.1	U		1.1	U		1.2	U		1.2	U	
Methylene chloride	199	NV	9.8	J	J	13.3	B	J	5.2	U		6.8	JB	J	14.6	B	J	19.6	B	J	5.1	U		5.5	U		5.3	U	
Naphthalene	45	NV	2.0	U		2.3	U		2.1	U		2.0	U		2.3	U		2.0	U		2.1	U		2.2	U		2.1	U	
n-Propylbenzene	NV [5]	NV	1.2	U		1.4	U		1.2	U		1.2	U		1.4	U		1.2	U		1.2	U		1.3	U		1.3	U	
1,1,1-Trichloroethane	21,800	NV	1.1	U		1.3	U		1.1	U		1.1	U		1.3	U		1.1	U		1.1	U		1.2	U		1.2	U	
1,2,4-Trimethylbenzene	62 [4]	NV	1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.1	U	
1,3,5-Trimethylbenzene	780 [4]	NV	1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.1	U	
Toluene	5,570	NV	1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.1	U	
m,p-Xylene	NV [5]	NV	1.9	U		2.2	U		2.0	U		1.9	U		2.2	U		1.9	U		1.9	U		2.1	U		2.0	U	
o-Xylene	9,550	NV	1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.0	U		1.0	U		1.1	U		1.1	U	
Semi-Volatile Organic Compounds (8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Benzo(b)fluoranthene	6.21	NV	57.6	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Chrysene	621	NV	40.1	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
bis(2-Ethylhexyl)phthalate	347	NV	716			190	U		190	U		190	U		190	U		190	U		190	U		200	U		190	U	
Fluoranthene	2,290	NV	51.9	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Fluorene	2,290	NV	50.4	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
2-Methylnaphthalene	310 [4]	NV	40	U		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Naphthalene	45	NV	40	U		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Phenanthrene	1,830	NV	123	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Pyrene	1,720	NV	47.8	J		39	U		38	U		37	U		39	U		38	U		38	U		39	U		39	U	
Total Petroleum Hydrocarbons (8015M)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	800 [6]	NV	4.47	J		2.9	U		2.7	U		2.7	U		3.4	U		3.0	U		3.0	U		3.3	U		3.1	U	
Diesel Range Organics (C10-C22)	800 [6]	NV	20.3			5.7	U		5.6	U		5.6	U		6.0	U		5.6	U		5.6	U		5.9	U		5.8	U	
Oil Range Organics (>C22-C36)	800 [6]	NV	13.6			5.7	U		5.6	U		5.6	U		6.0	U		5.6	U		5.6	U		5.9	U		5.8	U	
PCBs (8082)	**mg/kg**	**mg/kg**	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
ALL PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	3,490			9,900			3,590			3,850			5,100			4,590			5,460		J	2,540		J	2,440		J
Antimony	31.3	0.42	2.8	U	UJ	1.3	U	UJ	2.7	U	UJ	2.6	U	UJ	3.0	J		2.6	U		1.3	U	UJ	1.4	U	UJ	1.4	U	UJ
Arsenic	3.9	3.66	2.1	U		3.3			2.0	U		1.9	U		2.1	U		2.0	U		1.7	J		1.0	U		1.1	U	
Barium	15,600	169.25	34.0		J	124			33.9	J		35.9	J		225			36.1			147			22.5			19.9		
Beryllium	156	1.53	0.24	J		0.96	J		1.1	U		1.1	U		0.27	J		0.29			0.38			0.24	J		0.25	J	
Cadmium	77.9	0.28	0.51	J		0.28	U		0.56	U		0.53	U		0.058	U		0.054	U		0.055	U		0.057	U		0.059	U	
Calcium	NV [5]	317,331.59	148,000		J	93,500			157,000			161,000			159,000		J	152,000		J	97,200		J	128,000		J	143,000		J
Chromium	219	24.95	5.6			8.5		J	0.90	U	UJ	1.3	J	J	3.4		J	3.9		J	4.0			2.6			2.3		
Cobalt	23 [4]	7.70	1.2	J		3.5	J		1.0	J		1.1	J		1.3	J		1.2	J		1.6	J		0.82	J		0.81	J	
Copper	3,130	12.96	4.4			6.4	J		2.6	J	J	4.4	J	J	2.7		J	1.2	J	J	2.9			0.99	J		1.0	J	
Iron	54,800	23,049.48	2,920		J	8,130			2,900			3,200			3,100		J	3,110		J	3,710		J	2,250		J	2,120		J
Lead	400	10.87	10.8	J		4.5	J		2.5	U		2.4	U		2.6	U	UJ	2.4	U	UJ	1.8	J		1.3	U		1.3	U	
Magnesium	NV [5]	16,990.65	3,130			3,980		J	3,650		J	3,870		J	1,420			2,730			1,340			1,270			1,210		
Manganese	10,700	393.47	49.7		J	134		J	38.0		J	40.5		J	37.7		J	40.8		J	51.7		J	18.8		J	17.5		J
Mercury	7.71	10.76	0.017	J		0.013	U		0.013	U		0.013	U		0.013	U		0.014	U		0.014	U		0.014	U		0.012	U	
Nickel	1,560	17.34	3.4	J		7.4	J		2.4	J	J	14.6	J	J	3.1			3.2			3.7			1.6	J		1.7	J	
Potassium	NV [5]	5,077.12	1,180			2,460	J	J	1,270	J	J	1,280	J	J	1,430		J	1,540		J	1,420		J	851		J	823		J
Selenium	391	0.18	5.1	J		2.2	J		3.9	J		4.3	J		3.2	J		3.7	J		1.7	J		1.9	J		3.1	J	
Silver	391	65	0.60			0.33	U	UJ	0.67	U	UJ	0.64	U	UJ	0.069	U		0.065	U		0.066	U		0.068	U		0.070	U	
Sodium	NV [5]	5,195.97	215	J		230	U	UJ	470	U	UJ	440	U	UJ	179	J	J	319	J	J	72.9	J	J	296	J	J	336	J	J
Vanadium	391	42.53	9.6		J	16.3		J	9.3	J		10.6	J		9.8			9.8			10			9.2			9.3		
Zinc	23,500	54.53	31.4		J	23.0			8.0	J		8.9	J		10.6			8.7			11.6			5.7			5.5		
General Chemistry (2540B M)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	82.9			87.0			89.0			89.5			84.7			88.5			86.6			83.8			84.5		

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
ND = All constituents not detected
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Client Sample Nomenclature
SS18 = Spill Site SS18,
DP = Direct Push
A = Field Duplicate
The final digit equals the depth of the sample interval (feet below ground surface)

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December, 2009)
[5] No Value established for NMED Residential SSL (December, 2009) and USEPA RSL (December, 2009)
[6] NMED TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, Table 2b (October 2006)
Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Indicates analytical results above the NMED Residential SSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Analyte detected in the associated method blank

Table 6-4
Soil Anaytical Results (August 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP15-3			SS18-DP15-6			SS18-DP16-4			SS18-DP16-8			SS18-DP17-4			SS18-DP17-6			SS18-DP17-6-A			SS18-DP18-2			SS18-DP18-8		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL [2]	F67408-14			F67408-15			F67408-1			F67408-2			F67408-3			F67408-4			F67408-5			F67408-6			F67408-7		
Date Sampled:			8/18/2009			8/18/2009			8/17/2009			8/17/2009			8/17/2009			8/17/2009			8/17/2009			8/17/2009			8/17/2009		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
Volatile Organic Compounds (8026B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	67,500	NV	31	U		7,900	U		28	U		27	U		30	U		26	U		29	U		28	U		25	U	
Acetonitrile	870 [4]	NV	20	U		5,100	U		18	U		17	U		19	U		17	U		19	U		18	U		16	U	
n-Butylbenzene	NV [5]	NV	1.7	U		6,060			1.6	U		1.5	U		1.7	U		1.5	U		1.6	U		1.6	U		1.4	U	
sec-Butylbenzene	NV [5]	NV	1.4	U		4,220			1.2	U		1.2	U		1.3	U		4.6	J		1.3	U		1.2	U		1.1	U	
Carbon disulfide	1,940	NV	1.4	U		350	U		1.2	U		1.2	U		1.3	U		9.7		J	16.5		J	1.2	U		1.1	U	
1,1-Dichloroethane	62.9	NV	2.5	U		630	U		2.2	U		2.1	U		8.6			195		J	18.0		J	2.3	U		2.0	U	
1,1-Dichloroethylene	618	NV	1.6	U		410	U		1.4	U		1.4	U		1.6	U		6.1			1.5	U		1.5	U		1.3	U	
Ethylbenzene	69.7	NV	1.2	U		7,740			1.1	U		1.1	U		1.2	U		39.7			1.2	U		1.1	U		0.99	U	
2-Hexanone	210 [4]	NV	6.2	U		1,600	U		5.6	U		5.3	U		6.0	U		5.2	U		5.8	U		5.6	U		6.2	JB	J
Isopropylbenzene	3,210	NV	1.4	U		3,230			1.2	U		1.2	U		1.3	U		4.6	J		1.3	U		1.2	U		1.1	U	
p-Isopropyltoluene	NV [5]	NV	1.4	U		5,020			1.2	U		1.2	U		1.3	U		1.1	U		1.3	U		1.2	U		1.1	U	
Methylene chloride	199	NV	7.7	JB	J	2,920	JB	J	5.6	U		7.3	JB	J	6.0	U		7.9	JB	J	5.8	U		7.6	JB	J	5.5	JB	J
Naphthalene	45	NV	2.5	U		**56,500**			2.2	U		2.1	U		2.4	U		26.5			2.3	U		2.3	U		2.0	U	
n-Propylbenzene	NV [5]	NV	1.5	U		7,300			1.3	U		1.3	U		1.4	U		5.4			1.4	U		1.4	U		1.2	U	
1,1,1-Trichloroethane	21,800	NV	1.4	U		350	U		1.2	U		1.2	U		5.2	J		31.8			1.3	U		1.2	U		1.1	U	
1,2,4-Trimethylbenzene	62 [4]	NV	1.2	U		27,600			1.1	U		1.1	U		1.2	U		1.0	U		1.2	U		1.1	U		0.99	U	
1,3,5-Trimethylbenzene	780 [4]	NV	1.2	U		11,800			1.1	U		1.1	U		1.2	U		1.0	U		1.2	U		1.1	U		0.99	U	
Toluene	5,570	NV	1.2	U		320	U		1.1	U		1.1	U		1.2	U		4.7	J		1.2	U		1.1	U		0.99	U	
m,p-Xylene	NV [5]	NV	2.3	U		6,090			2.1	U		2.0	U		2.3	U		2.0	U		2.2	U		2.1	U		1.9	U	
o-Xylene	9,550	NV	1.2	U		320	U		1.1	U		1.1	U		1.2	U		4.6	J		1.2	U		1.1	U		0.99	U	
Semi-Volatile Organic Compounds (8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Benzo(b)fluoranthene	6.21	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Chrysene	621	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
bis(2-Ethylhexyl)phthalate	347	NV	190	U		20,000	U		200	U		190	U		210	U		200	U		210	U		190	U		200	U	
Fluoranthene	2,290	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Fluorene	2,290	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
2-Methylnaphthalene	310 [4]	NV	38	U		6,430	J		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Naphthalene	45	NV	38	U		17,300	J		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Phenanthrene	1,830	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Pyrene	1,720	NV	38	U		4,000	U		40	U		38	U		43	U		41	U		42	U		39	U		40	U	
Total Petroleum Hydrocarbons (8015M)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	800 [6]	NV	3.8	U		**1,210**			3.2	U		2.9	U		3.8	U		3.2	U		3.3	U		3.3	U		3.0	U	
Diesel Range Organics (C10-C22)	800 [6]	NV	5.6	U		**3,200**			6.0	U		5.6	U		6.3	U		11.7		J	146		J	5.7	U		5.9	U	
Oil Range Organics (>C22-C36)	800 [6]	NV	5.6	U		720	J		6.0	U		5.6	U		6.3	U		11.8		J	61.1		J	20.8			5.9	U	
PCBs (8082)	**mg/kg**	**mg/kg**	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
ALL PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	148			2,770			3,080		J	3,290		J	731		J	3,270		U	3,320		J	585		J	2,820		J
Antimony	31.3	0.42	2.6	U	UJ	2.7	U	UJ	2.8	U	UJ	2.6	U	UJ	3.0	U	UJ	1.4	U	UJ	1.4	U	UJ	2.6	U	UJ	2.9	U	UJ
Arsenic	3.9	3.66	1.9	U		2.0	U		2.1	U		1.9	U		2.3	U		1.1	U		1.1	U		2.0	U		2.1	U	
Barium	15,600	169.25	13.8	J		23.5	J		75.6	J		23.1	J		18.0	J		30.8	J		31.4	J		16.8	J		29.8	J	
Beryllium	156	1.53	1.1	U		1.1	U		1.2	U		1.1	U		1.3	U		0.59	U		0.60	U		1.1	U		1.2	U	
Cadmium	77.9	0.28	0.54	U		0.57	U		0.58	U		0.54	U		0.63	U		0.29	U		0.30	U		0.55	U		0.60	U	
Calcium	NV [5]	317,331.59	192,000			137,000			164,000		J	163,000		J	223,000		J	135,000		J	128,000		J	214,000		J	150,000		J
Chromium	219	24.95	0.86	U	UJ	0.91	U	UJ	2.6	J		2.7	J		1.0	U		3.8			3.7			0.88	U		2.7	J	
Cobalt	23 [4]	7.70	0.45	U		0.94	J		1.1	J		1.3	J		0.52	U		1.4	J		1.6	J		0.46	U		0.73	J	
Copper	3,130	12.96	3.1	J		2.3	J		1.2	U		1.1	U		1.3	U		1.7	J		1.5	J		1.2	U		1.3	J	
Iron	54,800	23,049.48	102			2,910			2,530		J	2,890		J	625		J	3,660		J	3,730		J	484		J	2,330		J
Lead	400	10.87	2.4	U		2.6	U		2.6	U		2.4	U		2.8	U		1.3	U		1.3	J		3.5	J		2.7	U	
Magnesium	NV [5]	16,990.65	2,610	J	J	1,340	J	J	1,250	J		2,010	J		683	J		1,850			1,890			1,440	J		2,650	J	
Manganese	10,700	393.47	3.2	J		23.8		J	41.3		J	51.9		J	11.4			43.3		J	59.4		J	5.4	J		35.6		J
Mercury	7.71	10.76	0.012	U		0.013	U		0.014	U		0.015	J		0.014	U		0.014	U		0.015	U		0.013	U		0.014	U	
Nickel	1,560	17.34	1.7	U		1.8	J		2.2	J		2.8	J		2.0	U		2.7	J		2.8	J		1.8	U		2.0	J	
Potassium	NV [5]	5,077.12	373	J	J	1,040	J	J	1,020	J		1,140	J		641	J		1,050	J		1,050	J		543	J		1,050	J	
Selenium	391	0.18	4.1	J		2.9	J		4.5	J		3.3	J		5.3	J		2.8	J		2.6	J		4.4	J		2.7	J	
Silver	391	65	0.65	U	UJ	0.68	U	UJ	0.70	U		0.64	U		0.76	U		0.35	U		0.36	U		0.66	U		0.72	U	
Sodium	NV [5]	5,195.97	450	U	UJ	470	U	UJ	490	U	UJ	450	U	UJ	520	U	UJ	240	U	UJ	250	U	UJ	460	U	UJ	490	U	UJ
Vanadium	391	42.53	3.4	J		6.8	J		6.3	J		8.5	J		2.0	J		8.6	J		8.1	J		3.5	J		7.2	J	
Zinc	23,500	54.53	2.0	U		6.7	J		7.4	J		7.7	J		2.4	U		9.0			9.0			2.1	U		6.4	J	
General Chemistry (2540B M)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	88.5			83.8			83.0			88.7			79.2			82.7			79.9			86.5			83.9		

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
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Q = Laboratory Qualifier
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Client Sample Nomenclature
SS18 = Spill Site SS18,
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A = Field Duplicate
The final digit equals the depth of the sample interval (feet below ground surface)

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December, 2009)
[5] No Value established for NMED Residential SSL (December, 2009) and USEPA RSL (December, 2009)
[6] NMED TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, Table 2b (October 2006)

Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Indicates analytical results above the NMED Residential SSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Analyte detected in the associated method blank

Table 6-4
Soil Anaytical Results (August 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	SS18-DP19-2			SS18-DP19-8			SS18-DP20-3			SS18-DP20-7			SS18-DP21-3			SS18-DP21-8			SS18-DP22-3			SS18-DP22-8			SS18-DP23-3			SS18-DP23-8		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL [2]	F67408-8			F67408-9			F67433-1			F67433-2			F67408-10			F67408-11			F67408-16			F67408-17			F67464-1			F67464-2		
Date Sampled:			8/17/2009			8/17/2009			8/18/2009			8/18/2009			8/17/2009			8/17/2009			8/18/2009			8/18/2009			8/19/2009			8/19/2009		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (8026B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Acetone	67,500	NV	29	U		27	U		26	U		102			32	U		32	U		27	U		26	U		25	U		24	U	
Acetonitrile	870 [4]	NV	19	U		17	U		17	U		106			21	U		20	U		17	U		17	U		16	U		15	U	
n-Butylbenzene	NV [5]	NV	1.6	U		1.5	U		1.5	U		1.7	U		1.8	U		1.8	U		1.5	U		1.5	U		1.4	U		1.3	U	
sec-Butylbenzene	NV [5]	NV	1.3	U		1.2	U		1.2	U		1.3	U		1.4	U		1.4	U		1.2	U		1.1	U		1.1	U		1.0	U	
Carbon disulfide	1,940	NV	1.3	U		1.2	U		1.2	U		32.0			1.4	U		1.4	U		1.2	U		1.1	U		1.1	U		1.0	U	
1,1-Dichloroethane	62.9	NV	2.4	U		2.1	U		2.1	U		58.5			2.6	U		2.5	U		2.2	U		2.1	U		2.0	U		1.9	U	
1,1-Dichloroethylene	618	NV	1.5	U		1.4	U		1.4	U		2.1	J		1.7	U		1.6	U		1.4	U		1.4	U		1.3	U		1.2	U	
Ethylbenzene	69.7	NV	1.2	U		1.1	U		1.1	U		1.2	U		1.3	U		1.3	U		1.1	U		1.0	U		1.0	U		0.94	U	
2-Hexanone	210 [4]	NV	5.9	U		5.4	U		5.3	U		6.0	U		6.5	U		6.3	U		5.5	U		5.2	U		5.0	U		4.7	U	
Isopropylbenzene	3,210	NV	1.3	U		1.2	U		1.2	U		1.3	U		1.4	U		1.4	U		1.2	U		1.1	U		1.1	U		1.0	U	
p-Isopropyltoluene	NV [5]	NV	1.3	U		1.2	U		1.2	U		1.3	U		1.4	U		1.4	U		1.2	U		1.1	U		1.1	U		1.0	U	
Methylene chloride	199	NV	5.9	U		5.4	U		5.3	U		6.0	U		6.5	U		6.3	U		5.5	U		5.2	U		6.8	J	J	4.7	U	
Naphthalene	45	NV	2.4	U		2.1	U		2.1	U		2.4	U		2.6	U		2.5	U		2.2	U		2.1	U		2.0	U		1.9	U	
n-Propylbenzene	NV [5]	NV	1.4	U		1.3	U		1.3	U		1.5	U		1.6	U		1.5	U		1.3	U		1.3	U		1.2	U		1.1	U	
1,1,1-Trichloroethane	21,800	NV	1.3	U		1.2	U		2.8	J		33.3			1.4	U		1.4	U		1.2	U		1.1	U		1.1	U		1.0	U	
1,2,4-Trimethylbenzene	62 [4]	NV	1.2	U		1.1	U		1.1	U		1.2	U		1.3	U		1.3	U		1.1	U		1.0	U		1.0	U		0.94	U	
1,3,5-Trimethylbenzene	780 [4]	NV	1.2	U		1.1	U		1.1	U		1.2	U		1.3	U		1.3	U		1.1	U		1.0	U		1.0	U		0.94	U	
Toluene	5,570	NV	3.4	J		1.1	U		1.1	U		1.2	U		1.3	U		1.3	U		1.1	U		1.0	U		1.0	U		0.94	U	
m,p-Xylene	NV [5]	NV	2.2	U		2.0	U		2.0	U		2.3	U		2.5	U		2.4	U		2.1	U		2.0	U		1.9	U		1.8	U	
o-Xylene	9,550	NV	1.2	U		1.1	U		1.1	U		1.2	U		1.3	U		1.3	U		1.1	U		1.0	U		1.0	U		0.94	U	
Semi-Volatile Organic Compounds (8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Benzo(b)fluoranthene	6.21	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Chrysene	621	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
bis(2-Ethylhexyl)phthalate	347	NV	190	U		190	U		190	U		220	U		210	U		220	U		190	U		190	U		190	U		200	U	
Fluoranthene	2,290	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Fluorene	2,290	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
2-Methylnaphthalene	310 [4]	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Naphthalene	45	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Phenanthrene	1,830	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Pyrene	1,720	NV	38	U		38	U		39	U		43	U		42	U		45	U		39	U		38	U		38	U		40	U	
Total Petroleum Hydrocarbons (8015M)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Gasoline Range Organics (C6-C10)	800 [6]	NV	3.1	U		2.8	U		3.0	U		4.0	U		3.9	U		4.0	U		3.1	U		3.0	U		3.1	U		3.2	U	
Diesel Range Organics (C10-C22)	800 [6]	NV	5.8	U		5.7	U		5.8	U		6.6	U		6.3	U		6.7	U		5.8	U		5.7	U		5.7	U		5.8	U	
Oil Range Organics (>C22-C36)	800 [6]	NV	5.8	U		5.7	U		5.8	U		6.6	U		6.3	U		6.7	U		5.8	U		5.7	U		5.7	U		5.8	U	
PCBs (8082)	**mg/kg**	**mg/kg**	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
ALL PCBs	NV	NV	ND			ND			ND			ND			ND			ND			ND			ND			ND			ND		
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	3,060		J	3,570		J	4,610		J	3,160		J	1,140		J	3,130		J	9,480			4,090			8,500			5,690		
Antimony	31.3	0.42	2.8	U	UJ	2.6	U	UJ	2.6	U	UJ	1.6	U	UJ	2.9	U	UJ	1.5	U	UJ	1.3	U	UJ	2.7	U	UJ	1.1	U	UJ	2.7	U	UJ
Arsenic	3.9	3.66	2.1	U		2.4	J		2.0	U		1.2	U		2.2	U		1.1	U		3.6			2.0	U		3.2			2.0	U	
Barium	15,600	169.25	42.7	J		26.8	J		44.3			30.9			8.9	J		29.7	J		158		J	30.2	J		158		J	18.2		J
Beryllium	156	1.53	1.1	U		1.1	U		0.27	J		0.28	J		1.2	U		0.64	U		0.65	J		1.1	U		0.46			0.37		
Cadmium	77.9	0.28	0.57	U		0.54	U		0.061	J		0.065	U		0.61	U		0.32	U		0.28	U		0.57	U		0.055	U		0.057	U	
Calcium	NV [5]	317,331.59	175,000		J	152,000		J	157,000		J	137,000		J	220,000		J	123,000		J	113,000			154,000			79,300		J	150,000		J
Chromium	219	24.95	2.6	J		3.7	J		3.2			2.9			0.97	U		3.0	J		5.5		J	0.91	U	UJ	6.6			4.8		
Cobalt	23 [4]	7.70	1.4	J		1.9	J		1.3	J		0.93	J		0.84	J		1.2	J		2.7	J		1.4	J		2.5	J	J	1.8	J	
Copper	3,130	12.96	1.8	J		1.4	J		2.7			1.5	J		2.0	J		0.86	J		6.5	J		3.3	J		4.9			1.9		
Iron	54,800	23,049.48	2,520		J	3,250		J	2,840		J	2,290		J	911		J	2,790		J	6,900			3,380			5,970		J	3,990		J
Lead	400	10.87	2.6	U		2.5	U		2.5	U		1.5	U		2.7	U		1.4	U		3.8	J		2.6	U		4.1	J		2.6	U	
Magnesium	NV [5]	16,990.65	2,320	J		2,210	J		4,100			1,670			1,270	J		1,780			3,950		J	4,540		J	3,350			3,090		
Manganese	10,700	393.47	39.7		J	42.4		J	52.9		J	48.6		J	10.4			37.1		J	107		J	59.6		J	74.0		J	56.7		J
Mercury	7.71	10.76	0.013	U		0.014	U		0.014	U		0.015	U		0.013	U		0.014	U		0.014	U		0.021	J		0.014	U		0.014	U	
Nickel	1,560	17.34	2.4	J		3.3	J		3.0			2.1	J		1.9	U		2.4	J		6.4	J		2.8	J		5.2			4.2		
Potassium	NV [5]	5,077.12	1,190	J		1,240	J		1,610		J	1,040		J	593	J		975	J		2,570	J	J	1,390	J	J	2,260			1,770		
Selenium	391	0.18	5.8	J		3.1	J		3.7	J		3.1	J		4.5	J		2.7	J		2.4	J		3.1	J		2.5	J		4.1	J	
Silver	391	65	0.69	U		0.65	U		0.066	U		0.078	U		0.73	U		0.38	U		0.34	U	UJ	0.68	U	UJ	0.066	U		0.068	U	
Sodium	NV [5]	5,195.97	480	U	UJ	450	U	UJ	237	J	J	247	J	J	510	U	UJ	260	U	UJ	230	U	UJ	470	U	UJ	231	J		412	J	
Vanadium	391	42.53	6.7	J		9.3	J		18.6			6.7			2.1	J		6.6	J		15.9		J	14.3	J		13.9		J	13.5		J
Zinc	23,500	54.53	7.3	J		8.2	J		9.5			7.3			4.0	J		7.5			21.6			10.6	J		18.3		J	11.0		J
General Chemistry (2540B M)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent	NV	NV	86.2			87.4			86.5			75.7			79.7			74.9			86.0			87.0			86.4			83.7		

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
ND = All constituents not detected
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Client Sample Nomenclature
SS18 = Spill Site SS18,
DP = Direct Push
A = Field Duplicate
The final digit equals the depth of the sample interval (feet below ground surface)

[1] NMED, December 2009. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 5.0.
[2] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December, 2009)
[5] No Value established for NMED Residential SSL (December, 2009) and USEPA RSL (December, 2009)
[6] NMED TPH Screening Guidelines for Unknown Oil, Residential Direct Exposure, Table 2b (October 2006)

Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Indicates analytical results above the NMED Residential SSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Analyte detected in the associated method blank

Table 6-5
Soil Geotechnical Results (August 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Sample Identification	**Method**	**Unit**	**SS18-DP22-3**	**SS18-DP22-4**	**Average**
Depth (ft bgs)			**2-3**	**3-4**	
Date sampled			**8/18/2009**	**8/18/2009**	
Parameter					
Bulk Density (Dry Basis)	ASTM D2937-94 M	g/mL	1.2	1.5	1.350
Fractional Organic Carbon	ASTM D2974-87	%	1.2	2.3	1.750
Moisture Content (Solids, Percent)	USEPA 160.3	%	79.5	76.2	77.850
Specific Gravity	ASTM 1429		1.7	2	1.850

Notes:
ASTM - American Society for Testing and Materials
USEPA - U.S. Environmental Protection Agency
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent
SS18 - Spill Site SS18
DP = Direct Push

Table 6-6
Groundwater Anaytical Results (August-October 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	SS18-MW02			SS18-MW03			SS18-MW04			SS18-MW04			SS18-MW04			SS18-MW05			SS18-MW06			SS18-MW06-A			SS18-MW07		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F67536-1			F67536-2			F67449-1			F67473-1			F67506-1			F67449-2			F67422-1			F67422-2			F67379-1		
Date Sampled:				8/24/2009			8/24/2009			8/19/2009			8/20/2009			8/21/2009			8/19/2009			8/18/2009			8/18/2009			8/17/2009		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Bromodichloromethane	NV	NV	NV	0.20	U		0.20	U		0.20	U		NA			NA			0.20	U		0.20	U		0.20	U		0.20	U	
sec-Butylbenzene	NV	NV	NV	0.25	U		0.25	U		0.25	U		NA			NA			0.25	U		0.25	U		0.25	U		10.7		
tert-Butylbenzene	NV	NV	NV	0.32	U		0.32	U		0.32	U		NA			NA			0.32	U		0.32	U		0.32	U		1.1		
Chloroform	100	NV	NV	5.2			0.41	J		3.9			NA			NA			0.28	U		15.3			14.5			1.7		
Carbon disulfide	NV	NV	NV	0.40	U		0.40	U		0.40	U		NA			NA			0.40	U		0.40	U		0.40	U		1.3	J	
1,1-Dichloroethane	25	NV	NV	3.4			0.24	U		18.3			NA			NA			11.3			0.24	U		0.24	U		2.3		
1,1-Dichloroethylene	5	7	NV	**10.5**			0.54	U		**56.6**			NA			NA			**6.4**			0.54	U		0.54	U		**8.0**		
1,2-Dichloroethane	10	5	NV	0.34	U		0.34	U		0.89	J		NA			NA			0.34	U		0.34	U		0.34	U		0.34	U	
Dibromochloromethane	NV	NV	NV	0.20	U		0.20	U		0.20	U		NA			NA			0.20	U		0.20	U		0.20	U		0.20	U	
cis-1,2-Dichloroethylene	NV	70	NV	0.20	U		0.20	U		0.20	U		NA			NA			0.20	U		0.20	U		0.20	U		0.20	U	
trans-1,2-Dichloroethylene	NV	100	NV	0.45	U		0.45	U		0.45	U		NA			NA			0.45	U		0.45	U		0.45	U		0.45	U	
Methylene chloride	100	5	NV	1.0	U		1.0	U		1.1	J		NA			NA			1.0	U		1.0	U		1.0	U		1.0	U	
Methyl ethyl ketone	NV	NV	NV	2.0	U		2.0	U		2.0	U		NA			NA			2.0	U		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	0.26	U		0.26	U		0.26	U		NA			NA			0.26	U		0.26	U		0.26	U		0.26	U	
Naphthalene	30	NV	NV	1.0	U		1.0	U		1.0	U		NA			NA			1.0	U		1.0	U		1.0	U		2.1	J	
1,1,1-Trichloroethane	60	200	NV	0.33	U		0.33	U		0.33	U		NA			NA			5.4			0.33	U		0.33	U		0.33	U	
Tetrachloroethylene	20	5	NV	0.22	U		0.22	U		0.22	U		NA			NA			0.22	U		0.23	J		0.23	J		0.22	U	
Toluene	750	1,000	NV	1.6			0.35	U		0.35	U		NA			NA			0.35	U		0.35	U		0.35	U		0.35	U	
Trichloroethylene	100	5	NV	0.32	U		0.32	U		0.32	U		NA			NA			0.32	U		0.32	U		0.32	U		0.32	U	
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Butyl benzyl phthalate	NV	NV	NV	1.3	U		1.0	U		NA			1.3	J		NA			1.0	U		0.99	U		1.2	U		0.96	U	
Dibenzofuran	NV	NV	NV	1.3	U		1.0	U		NA			1.0	U		NA			1.0	U		0.99	U		1.2	U		1.1	J	
Di-n-butyl phthalate	NV	NV	NV	1.3	U		1.0	U		NA			1.0	U		NA			1.0	U		0.99	U		1.2	U		0.96	U	
Total Petroleum Hydrocarbons (8015M)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Gasoline Range Organics (C6-C10)	50 [5]	NV	NV	0.050	U		0.050	U		0.050	U		NA			NA			0.050	U		0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [5]	NV	NV	0.13	U		0.11	U		NA			0.641			NA			0.12	U		0.10	U		0.10	U		0.391		
Oil Range Organics (>C22-C36)	50 [5]	NV	NV	0.136	J		0.11	U		NA			0.165	J		NA			0.12	U		0.10	U		0.10	U		0.11	U	
PCBs (8082)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
All PCBs	1	0.5	NV	0.24/0.38	U		0.25/0.40	U		NA			NA			0.37/0.59	U		0.30/0.49	U		0.26/0.41	U		0.25/0.40	U		0.24/0.38	U	
TAL Metals Analysis (200.7/245.1)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	5,000	50 [6]	54	11	U		44	U		NA			NA			**107**	J		13.2	J	J	19.3	J	J	14.0	J	J	14.6	J	J
Antimony	NV	6	3.1	**7.0**			9.0	U		NA			NA			9.0	U		4.5	U		9.0	U		4.5	U		4.5	U	
Arsenic	100	10	28.53	10.8		J	14.9	J	J	NA			NA			15.5	J	J	9.4	J		19.7	J		17.2			9.0	J	
Barium	1,000	2,000	30.13	15.1	J		19.5	J		NA			NA			23.9	J		19.7	J		15.3	J		15.0	J		19.9	J	
Calcium	NV	NV	1,151,301.20	433,000			670,000			NA			NA			660,000		J	486,000		J	560,000		J	494,000		J	486,000		J
Cobalt	50	NV	2.6	1.0	U		1.0	U		NA			NA			1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
Copper	1,000	1,300	57.46	5.0	U		14.5	J		NA			NA			12.4	J		5.0	U		5.0	U		5.0	U		5.0	U	
Iron	1,000	300 [6]	65.56	31.6	J		188	J		NA			NA			150	J		57.4	J	J	41.7	J	J	23	U	UJ	119	J	J
Lead	50	15	2.6	2.0	U		8.0	U		NA			NA			4.0	U		2.0	U		4.0	U		2.0	U		2.0	U	
Magnesium	NV	NV	3,630,926.70	281,000			1,220,000			NA			NA			610,000		J	81,200			118,000			116,000			111,000		
Manganese	200	50 [6]	118.65	1.0	U		38.6			NA			NA			36.2			8.4	J		1.0	U		1.0	U		79.8		
Nickel	200	NV	15.89	2.3	J		35.9	J		NA			NA			29.0	J		2.3	U		2.3	U		2.3	U		2.4	J	
Potassium	NV	NV	120,479.98	19,300		J	76,700		J	NA			NA			51,800		J	11,300		J	15,800		J	16,100		J	12,200		J
Selenium	50	50	25.26	8.1	J	J	24.4		J	NA			NA			20.5		J	3.4	U		17.0	J		3.4	U		3.4	U	
Sodium	NV	NV	19,972,499.00	344,000		J	4,830,000		J	NA			NA			2,370,000		J	51,500		J	85,100		J	82,300		J	153,000		J
Thallium	NV	2	4.9	**5.5**	J		3.8	J		NA			NA			**5.5**	J		3.6	U		3.6	U		3.6	U		3.6	U	
Vanadium	NV	NV	73.73	62.7		J	77.5		J	NA			NA			109		J	82.7			107			106			26.0	J	
Zinc	10,000	5,000 [6]	56.28	7.4	U		7.4	U		NA			NA			48.0			7.4	U		7.4	U		7.4	U		7.4	U	
General Chemistry (2540C)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Solids, Total Dissolved	1,000	500 [6]	65,956.58 [7]	3,750			21,600			8,990		J	NA			NA			4,040		J	2,850		J	3,770		J	3,880		J

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
NMED = New Mexico Environment Department
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NA = Not Analyzed
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
UJ = Estimated non detect

Client Sample Nomenclature
SS18 = Spill Site SS18
MW = Monitoring Well
A = Field Duplicate

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[4] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[5] NMED TPH Screening Guidelines for Unknown Oil, Concentration in groundwater, Table 2b (October, 2006)
[6] USEPA Secondary Drinking Water Standard
[7] Value established in the *Basewide Background Study Report* (NationView/Bhate JV III, October 2009) for Total Dissolved Solids is derived from Total Groundwater UTL.

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the Basewide Background UTL
Indicates analytical results above the the Basewide Background UTL, but below New Mexico Groundwater Quality Standard or USEPA MCL

Table 6-6
Groundwater Anaytical Results (August-October 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	SS18-MW08			SS18-MW09			SS18-MW10			SS18-MW11			SS18-MW12			SS18-MW13			SS18-MW14			SS18-MW15			SS18-MW16		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F67422-3			F68309-1			F68298-1			F68367-1			F68309-2			F68540-1			F68183-1			F68309-3			F68298-2		
Date Sampled:				8/18/2009			9/24/2009			9/23/2009			9/28/2009			9/24/2009			10/2/2009			9/21/2009			9/24/2009			9/23/2009		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Bromodichloromethane	NV	NV	NV	0.30	J		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		11.6			0.35	J	
sec-Butylbenzene	NV	NV	NV	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U	
tert-Butylbenzene	NV	NV	NV	0.32	U		0.32	U		0.32	U		0.32	U		0.32	U		0.32	U		0.32	U		0.32	U		0.32	U	
Chloroform	100	NV	NV	3.2			0.28	U		0.28	U		2.4			0.68	J		3.8			8.2			25.1			3.1		
Carbon disulfide	NV	NV	NV	0.40	U		0.40	U		0.40	U		0.66	J		0.40	U		0.40	U		0.40	U		0.40	U		1.2	J	
1,1-Dichloroethane	25	NV	NV	**37.5**			0.51	J		0.24	U		0.24	U		1.8			0.26	J		0.24	U		0.24	U		0.24	U	
1,1-Dichloroethylene	5	7	NV	**193**			**5.9**			0.54	U		0.54	U		0.54	U		0.54	U		0.54	U		0.54	U		0.54	U	
1,2-Dichloroethane	10	5	NV	0.95	J		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U		0.34	U	
Dibromochloromethane	NV	NV	NV	0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		2.5			0.20	U	
cis-1,2-Dichloroethylene	NV	70	NV	0.23	J		0.20	U		0.29	J		0.20	U		0.20	U		0.20	U		0.20	U		0.20	U		15.2		
trans-1,2-Dichloroethylene	NV	100	NV	0.45	U		0.45	U		0.45	U		0.45	U		0.45	U		0.45	U		0.45	U		0.45	U		0.45	U	
Methylene chloride	100	5	NV	1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.5	J		1.0	U	
Methyl ethyl ketone	NV	NV	NV	2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	0.42	J		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U		0.26	U	
Naphthalene	30	NV	NV	1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U		1.0	U	
1,1,1-Trichloroethane	60	200	NV	0.33	U		0.33	U		0.33	U		0.33	U		0.33	U		0.33	U		0.33	U		0.33	U		0.33	U	
Tetrachloroethylene	20	5	NV	**28.7**			0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		0.22	U		1.2			0.39	J	J
Toluene	750	1,000	NV	0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U		0.35	U	
Trichloroethylene	100	5	NV	**5.9**			0.32	U		1.2			0.32	U		0.32	U		0.32	U		0.32	U		0.32	U		2.4		
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Butyl benzyl phthalate	NV	NV	NV	1.0	U		0.95	U		0.95	U		1.0	U		0.95	U		1.0	U		0.95	U		0.95	U		0.95	U	
Dibenzofuran	NV	NV	NV	1.0	U		0.95	U		0.95	U		1.0	U		0.95	U		1.0	U		0.95	U		0.95	U		0.95	U	
Di-n-butyl phthalate	NV	NV	NV	1.0	U		0.95	U		0.95	U		1.0	U		0.95	U		1.0	U		0.95	U		0.95	U		0.95	U	
Total Petroleum Hydrocarbons (8015M)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Gasoline Range Organics (C6-C10)	50 [5]	NV	NV	0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [5]	NV	NV	0.095	U		0.126	J		0.10	U		0.122	J		0.10	U		0.110	J		0.10	U		0.10	U		0.10	U	
Oil Range Organics (>C22-C36)	50 [5]	NV	NV	0.095	U		0.10	U		0.10	U		0.10	U		0.10	U		0.138	J		0.10	U		0.10	U		0.10	U	
PCBs (8082)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
All PCBs	1	0.5	NV	0.26/0.41	U		0.24/0.38	U		0.24/0.38	U		0.25/0.40	U		0.25/0.40	U		0.25/0.40	U		0.25/0.40	U		0.25/0.40	U		0.24/0.38	U	
TAL Metals Analysis (200.7/245.1)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	5,000	50 [6]	54	36.7	J	J	**147**	J		35.4	J		15.0	J	J	29.6	J		17.0	J	J	34.0	J		30.4	J		27.5	J	
Antimony	NV	6	3.1	9.0	U		4.5	U		4.5	U		9.0	U		9.0	U		4.5	U		9.0	U		4.5	U		4.5	U	
Arsenic	100	10	28.53	18.8	J		15.5		J	10.2		J	11	U	UJ	17.5	J	J	5.4	U	UJ	11	U	UJ	11.6		J	17.3		J
Barium	1,000	2,000	30.13	14.2	J		36.1	J		31.0	J		56.6	J		19.7	J		38.2	J		43.5	J		17.9	J		16.9	J	
Calcium	NV	NV	1,151,301.20	592,000		J	469,000			487,000			584,000		J	582,000			480,000		J	612,000			483,000			489,000		
Cobalt	50	NV	2.6	1.0	U		1.0	U		1.0	U		1.0	U		1.9	J		1.0	U		1.4	J		1.0	U		1.7	J	J
Copper	1,000	1,300	57.46	5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U		5.0	U	
Iron	1,000	300 [6]	65.56	46	U	UJ	23	U		23	U		65.4	J		23	U		177	J		460	U		23	U		**586**		
Lead	50	15	2.6	4.0	U		2.0	U		2.0	U		4.0	U		4.0	U		2.0	U		4.0	U		2.0	U		2.0	U	
Magnesium	NV	NV	3,630,926.70	897,000			356,000			331,000			110,000			95,100			263,000			115,000			274,000			248,000		
Manganese	200	50 [6]	118.65	1.0	U		56.4			**240**			**138**			**527**			**476**			**198**			34.2			**435**		
Nickel	200	NV	15.89	2.3	U		3.3	J		6.7	J		8.0	J		3.4	J		8.2	J		10.5	J		2.3	U		4.3	J	
Potassium	NV	NV	120,479.98	51,600		J	24,100		J	19,200		J	14,300		J	8,090	J	J	14,800		J	13,700		J	15,800		J	13,400		J
Selenium	50	50	25.26	29.7			3.4	U		6.3	J		6.8	U	UJ	15.7	J		3.4	U	UJ	17.9	J		3.4	U		14	U	
Sodium	NV	NV	19,972,499.00	3,930,000		J	944,000			567,000			230,000			87,000			456,000			155,000			114,000			104,000		
Thallium	NV	2	4.9	3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U	
Vanadium	NV	NV	73.73	65.7			72.1			63.9			26.7	J		70.4			19.7	J		45.7	J		63.9			36.5	J	
Zinc	10,000	5,000 [6]	56.28	7.4	U		7.4	U		7.4	U		9.2	J		7.4	U		7.4	U		7.4	U		7.4	U		7.4	U	
General Chemistry (2540C)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Solids, Total Dissolved	1,000	500 [6]	65,956.58 [7]	29,900		J	11,200		J	5,790		J	3,210		J	3,190		J	4,290			3,780			7,020		J	3,820		J

Notes:

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[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[4] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[5] NMED TPH Screening Guidelines for Unknown Oil, Concentration in groundwater, Table 2b (October, 2006)
[6] USEPA Secondary Drinking Water Standard
[7] Value established in the *Basewide Background Study Report* (NationView/Bhate JV III, October 2009) for Total Dissolved Solids is derived from Total Groundwater UTL.
Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the Basewide Background UTL
Indicates analytical results above the the Basewide Background UTL, but below New Mexico Groundwater Quality Standard or USEPA MCL

Table 6-6
Groundwater Anaytical Results (August-October 2009)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	SS18-MW16A			SS18-MW17			SS18-MW18			SS18-MW19			SS18-MW20			SS18-MW21			SS18-MW22			SS18-MW22A		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F68298-3			F68208-1			F68298-4			F68498-1			F68498-2			F68208-3			F68341-1			F68341-2		
Date Sampled:				9/23/2009			9/22/2009			9/23/2009			10/1/2009			10/1/2009			9/22/2009			9/25/2009			9/25/2009		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
Volatile Organic Compounds (8260B)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Bromodichloromethane	NV	NV	NV	0.38	J		0.20	U		0.20	U		2.0	U		0.20	U		0.20	U		0.20	U		0.20	U	
sec-Butylbenzene	NV	NV	NV	0.25	U		0.25	U		0.25	U		2.5	U		0.25	U		0.25	U		0.25	U		0.25	U	
tert-Butylbenzene	NV	NV	NV	0.32	U		0.32	U		0.32	U		3.2	U		0.32	U		0.32	U		0.32	U		0.32	U	
Chloroform	100	NV	NV	3.4			0.28	U		0.93	J		2.8	U		0.33	J		0.28	U		1.1			1.2		
Carbon disulfide	NV	NV	NV	1.3	J		0.40	U		0.59	J		4.0	U		0.40	U		0.40	U		0.40	U		0.40	U	
1,1-Dichloroethane	25	NV	NV	0.24	U		0.24	U		8.3			**548**			6.6			0.24	U		0.36	J		0.39	J	
1,1-Dichloroethylene	5	7	NV	0.54	U		0.54	U		2.4			**67.1**			0.99	J		0.54	U		**5.6**			4.8		
1,2-Dichloroethane	10	5	NV	0.34	U		0.34	U		0.34	U		3.4	U		0.34	U		0.34	U		0.34	U		0.34	U	
Dibromochloromethane	NV	NV	NV	0.20	U		0.20	U		0.20	U		2.0	U		0.20	U		0.20	U		0.20	U		0.20	U	
cis-1,2-Dichloroethylene	NV	70	NV	17.8			0.20	U		62.4			2.9	J		0.20	U		0.20	U		0.20	U		0.20	U	
trans-1,2-Dichloroethylene	NV	100	NV	0.45	U		0.45	U		4.4			4.5	U		0.45	U		0.45	U		0.45	U		0.45	U	
Methylene chloride	100	5	NV	1.0	U		1.0	U		1.0	U		10	U		1.0	U		1.0	U		1.0	U		1.0	U	
Methyl ethyl ketone	NV	NV	NV	2.0	U		2.0	U		2.0	U		20	U		2.3	J		2.0	U		2.0	U		2.0	U	
Methyl Tert Butyl Ether	NV	NV	NV	0.26	U		0.26	U		0.26	U		3.9	J		0.26	U		0.26	U		0.26	U		0.26	U	
Naphthalene	30	NV	NV	1.0	U		1.0	U		1.0	U		10	U		1.0	U		1.0	U		1.0	U		1.0	U	
1,1,1-Trichloroethane	60	200	NV	0.33	U		0.33	U		0.33	U		3.3	U		0.33	U		0.33	U		0.33	U		0.33	U	
Tetrachloroethylene	20	5	NV	0.25	J	J	0.22	U		**12.9**			**48.8**			1.1			0.22	U		0.22	U		0.22	U	
Toluene	750	1,000	NV	0.35	U		0.35	U		0.35	U		3.5	U		0.35	U		0.35	U		0.35	U		0.35	U	
Trichloroethylene	100	5	NV	2.9			0.32	U		**95.6**			**13.4**			0.48	J		0.32	U		0.32	U		0.32	U	
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Butyl benzyl phthalate	NV	NV	NV	0.95	U		0.98	U		0.95	U		1.0	U		1.0	U		0.96	U		0.95	U		0.95	U	
Dibenzofuran	NV	NV	NV	0.95	U		0.98	U		0.95	U		1.0	U		1.0	U		0.96	U		0.95	U		0.95	U	
Di-n-butyl phthalate	NV	NV	NV	0.95	U		0.98	U		0.95	U		1.0	U		1.0	J		0.96	U		0.95	U		0.95	U	
Total Petroleum Hydrocarbons (8015M)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Gasoline Range Organics (C6-C10)	50 [5]	NV	NV	0.050	U		0.050	U		0.0726	J		0.294			0.050	U		0.050	U		0.050	U		0.050	U	
Diesel Range Organics (C10-C22)	50 [5]	NV	NV	0.10	U		0.10	U		0.166	J		0.151	J		0.10	U		0.170	J		0.10	U		0.10	U	
Oil Range Organics (>C22-C36)	50 [5]	NV	NV	0.10	U		0.156	J		0.138	J		0.10	U		0.10	U		0.10	U		0.10	U		0.10	U	
PCBs (8082)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
All PCBs	1	0.5	NV	0.24/0.38	U		0.26/0.41	U		0.24/0.38	U		0.25/0.39	U		0.24/0.38	U		0.26/0.41	U		0.25/0.40	U		0.25/0.40	U	
TAL Metals Analysis (200.7/245.1)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	5,000	50 [6]	54	30.2	J		29.7	J		31.3	J		33.8	J	J	28.3	J	J	41.7	J		20.4	J	J	15.9	J	J
Antimony	NV	6	3.1	4.5	U		4.5	U		4.5	U		9.0	U		9.0	U		4.5	U		4.5	U		4.5	U	
Arsenic	100	10	28.53	17.6		J	7.7	J	J	12.9		J	11	U	UJ	11	U	UJ	14.0		J	10.4		J	11.2		J
Barium	1,000	2,000	30.13	16.4	J		15.2	J		27.1	J		56.0	J		48.9	J		25.2	J		16.6	J		18.0	J	
Calcium	NV	NV	1,151,301.20	497,000			448,000			499,000			854,000		J	638,000		J	477,000			481,000		J	481,000		J
Cobalt	50	NV	2.6	1.0	J	J	1.0	U		2.7	J		2.3	J		2.1	J		3.4	J		1.0	U		1.0	U	
Copper	1,000	1,300	57.46	5.0	U		5.0	U		5.0	U		5.0	U		5.5	J		5.0	U		5.0	U		5.0	U	
Iron	1,000	300 [6]	65.56	**577**			23	U		242	J		**648**			104	J		**613**			61.5	J		54.2	J	
Lead	50	15	2.6	2.0	U		2.0	U		2.0	U		4.0	U		4.0	U		2.0	U		2.5	J		2.0	U	
Magnesium	NV	NV	3,630,926.70	254,000			307,000			311,000			580,000			597,000			315,000			331,000			329,000		
Manganese	200	50 [6]	118.65	**392**			49.9			**408**			**536**			20.1			**475**			**190**			**248**		
Nickel	200	NV	15.89	4.2	J		2.4	J		6.8	J		44.7			22.0	J		27.3	J		4.9	J		5.4	J	
Potassium	NV	NV	120,479.98	13,300		J	48,000		J	41,300		J	53,700		J	44,200		J	29,500		J	12,300		J	12,700		J
Selenium	50	50	25.26	3.4	U		3.4	U		3.4	U		13.2	J	J	10.7	J	J	3.4	U		4.4	J	J	7.3	J	J
Sodium	NV	NV	19,972,499.00	104,000			639,000			578,000			1,490,000			1,370,000			664,000			736,000			719,000		
Thallium	NV	2	4.9	3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U		3.6	U	
Vanadium	NV	NV	73.73	37.7	J		64.1			56.6			32.2	J		69.0			57.5			62.6			58.1		
Zinc	10,000	5,000 [6]	56.28	7.4	U		7.4	U		7.4	U		12.3	J		7.4	U		7.4	U		7.4	U		7.4	U	
General Chemistry (2540C)	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Solids, Total Dissolved	1,000	500 [6]	65,956.58 [7]	4,690		J	6,820			6,490		J	11,600			14,400			5,530			6,360		J	5,800		J

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
PCBs = Polychlorinated Biphenyls
NMED = New Mexico Environment Department
µg/L = micrograms per liter
mg/L = milligrams per liter
NV = No Value
NA = Not Analyzed
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
UJ = Estimated non detect

Client Sample Nomenclature
SS18 = Spill Site SS18
MW = Monitoring Well
A = Field Duplicate

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[4] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[5] NMED TPH Screening Guidelines for Unknown Oil, Concentration in groundwater, Table 2b (October, 2006)
[6] USEPA Secondary Drinking Water Standard
[7] Value established in the *Basewide Background Study Report* (NationView/Bhate JV III, October 2009) for Total Dissolved Solids is derived from Total Groundwater UTL.

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the Basewide Background UTL
Indicates analytical results above the the Basewide Background UTL, but below New Mexico Groundwater Quality Standard or USEPA MCL

Table 6-7
OT-45 ACM Groundwater Analytical Results (June 2007)
SS-18 Release Assessment Report
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Groundwater Screening Levels**		**Basewide Background**	**S51-MW1**	**S51-MW3**	**S51-MW4**	**S51-MW5**	**S51-MW7**	**S51-MW7-A**
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**Dissolved Metals in Groundwater UTL [3]**	**D7F050154-001**	**D7F050154-002**	**D7F050154-004**	**D7F050154-003**	**D7F060363-009**	**D7F060363-010**
Date Sampled:				**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/4/2007**	**6/4/2007**
									Duplicate
Analyte (Method)				**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry (160.1)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Total Dissolved Solids (TDS)	1,000	500 [4]	65,956.58 [5]	3,200	23,000 Q	4,900 Q	3,400	8,200 Q	7,600 Q
Volatile Organic Compounds (8260B)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Carbon tetrachloride	10	5	NV	ND	ND	ND	ND	2.3	3.3
Chlorobenzene	NV	100	NV	0.77 J	ND	ND	ND	ND	ND
Chloroform	100	NV	NV	ND	0.27 J	0.66 J	2.3	3.4	5.7
1,2-Dichlorobenzene	NV	600	NV	0.21 J	ND	ND	ND	0.57 J	0.80 J
1,3-Dichlorobenzene	NV	NV	NV	ND	ND	ND	ND	ND	0.27 J
1,4-Dichlorobenzene	NV	75	NV	0.31 J	ND	ND	ND	ND	0.25 J
Dichlorodifluoromethane	NV	NV	NV	ND	ND	ND	ND	0.45 J	0.71 J
1,1-Dichloroethane	25	NV	NV	ND	2.5	0.20 J	ND	0.48 J	0.52 J
1,2-Dichloroethane	10	5	NV	ND	ND	ND	ND	0.59 J	0.96 J
1,1-Dichloroethene	5	7	NV	ND	2.8	ND	ND	ND	ND
1,2-Dichloroethene (total)	NV	NV	NV	ND	0.18 J	ND	ND	0.44 J	0.48 J
cis-1,2-Dichloroethene	NV	70	NV	ND	0.18 J	ND	ND	0.44 J	0.48 J
Methylene chloride	100	5	NV	ND	0.35 J	0.39 J	0.49 J	ND	ND
Tetrachloroethene	20	5	NV	ND	0.59 J	2	ND	ND	0.25 J
Trichloroethene	100	5	NV	0.60 J	**6.5**	0.61 J	ND	2.9	4.7
2-Chlorotoluene	NV	NV	NV	0.41 J	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (8270C)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
bis(2-Ethylhexyl)phthalate	NV	NV	NV	3.0 J	2.6 J	ND	ND	3.1 J	ND

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA MCL = U.S. Environmental Protection Agency Maximum Contaminant Level
UTL = Upper Tolerance Limit
µg/L = micrograms per liter
mg/L = milligrams per liter
ND = Not Detected
NV = No Value

Client Sample Nomenclature
S51 = Old AGE Refueling Station (OT-45)
MW = Monitoring Well
A = Denotes a Field Duplicate Sample

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Established in the *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, October 2009)
[4] USEPA Secondary Drinking Water Standard
[5] Value established in the Basewide Background Study Report, Holloman Air Force Base, New Mexico (NationView/Bhate JV III, October 2009) for Total Dissolved Solids is derived from Total Groundwater UTL.

Bold value indicate analytes above USEPA MCL and/or New Mexico Groundwater Quality Standard
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the Basewide Background UTL

Qualifiers
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemis
Q = Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

APPENDIX B

SUPPLEMENTAL ACM SOIL BORING LOGS

HTW DRILLING LOG

HOLE NO. SS18-DP24		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671301.29 Easting 1692028.05	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 14-Aug-12	11.DATE COMPLETED: 14-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2-3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
2	Moist at 2' bgs	0-2 PID: 0.0ppm				0 -5' 80% recovery
3						
4	Light Reddish Brown- 5 YR 6/4 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm				
7	Light reddish brown- 5 YR 6/4 Silty Clay (CL/ML) with coarse gypsum crystals intermixed					5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm				
9						
10		8-10 PID: 0.0ppm		SS18-DP24-10 @ 1120		

HTW DRILLING LOG

HOLE NO. SS18-DP24		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	13	Light Brown- 7.5 YR 6/3 Silt (ML) Dense-Dry	12-14 PID: 0.0ppm				
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP24

HTW DRILLING LOG

HOLE NO. SS18-DP25		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671204.72 Easting 1692115.59	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 6	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (3)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping Gravels					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
2		0-2 PID: 0.0ppm				
3						
4		2-4 PID: 0.0ppm				
5	Reddish Brown- 5 YR 5/3 Silty Sand (SM)					
6	Saturated at 6' bgs	4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm		SS18-DP25-8 -DP25-8-MS -DP25-8-MSD @ 1420		5-10' bgs 100% recovery
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) with coarse gypsum crystals intermixed	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP25		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13		12-14 PID: 0.0ppm				
	14						
	15	Dense Clay (CL)					
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP25

HTW DRILLING LOG

HOLE NO. SS18-DP26		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671204.72 Easting 1691993.03	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 14-Aug-12	11.DATE COMPLETED: 14-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ backfill material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3						
4	Light Reddish Brown- 5 YR 6/4 Silty Sand (SM)	2-4 PID: 0.0ppm				
	Saturated					
5						
6		4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm		SS18-DP26-8 @ 1205		5-10' bgs 100% recovery
	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
9	with coarse gypsum crystals intermixed Moist to wet	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP26		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	11						
	12						
	13						
	14	Light Brown- 7.5YR 6/3 Silt (ML) High Gypsum content Dense Dry	12-14 PID: 0.0ppm				
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP26

HTW DRILLING LOG

HOLE NO. SS18-DP27		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671059.03 Easting 1692123.93	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ backfill material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3						
4	Light Reddish Brown- 5 YR 6/4 Silty Sand (SM)	2-4 PID: 0.0ppm				
	Saturated					
5						
6		4-6 PID: 0.0ppm				
7						5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm		SS18-DP27-8 @ 1510		
	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
9	with coarse gypsum crystals intermixed Moist to wet	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP27
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
	13						
		Thin Sand lense (SM) Saturated	12-14 PID: 0.0ppm				
	14	Very Pale Brown- 10 YR 8/3 Silt (ML) High Gypsum content Dense Dry					
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP27

HTW DRILLING LOG

HOLE NO. SS18-DP28		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671090.66 Easting 1692017.21	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 14-Aug-12	11.DATE COMPLETED: 14-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 4	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ backfill material					
1						
		0-2 PID: 0.0ppm				
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
3						
		2-4 PID: 0.0ppm				
4						
	Light Reddish Brown- 5 YR 6/4 Silty Sand (SM)					
5	Saturated					
		4-6 PID: 0.0ppm				
6						
				SS18-DP28-7 @ 1245		
7						5-10' bgs 100% recovery
		6-8 PID: 0.0ppm				
8	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
9	with coarse gypsum crystals intermixed Moist to wet					
		8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP28
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13		12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP28

HTW DRILLING LOG

HOLE NO.	SS18-DP29
1.COMPANY NAME	NationView
2.DRILLING CONTRACTOR	Vironex
SHEET	1 OF 2 SHEETS
3.PROJECT	SS-18 Supplemental ACM
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	Chris Flaherty
6.MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 6600
7.SIZES AND TYPE OF DRILLING EQUIPMENT	5' Macro Core; 5' Acetate Liners
8.HOLE LOCATION (NM Central State Plane)	Northing 671045.71 Easting 1692057.23
9.SURFACE ELEVATION (FT. NAVD88)	
10.DATE STARTED	15-Aug-12
11.DATE COMPLETED	15-Aug-12
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	3.5
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	15
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Ladscaping Gravels					
1, 2, 3	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
4, 5, 6, 7, 8	Light Brown- 7.5 YR 6/3 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm 4-6 PID: 0.0ppm 6-8 PID: 0.0ppm		SS18-DP29-8 @ 0930		5-10' bgs 100% recovery
9, 10	Light Reddish brown- 5 YR 6/4 Silty Clay (CL/ML) with coarse gypsum inclusions Moist to wet	8-10 PID: 0.0ppm				

Project	SS-18 Supplemental ACM
HOLE NO.	SS18-DP29

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP29
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
	13		12-14 PID: 0.0ppm				
	14	Light Brown- 7.5YR 6/3 Silt- Dense					
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP29

HTW DRILLING LOG

HOLE NO.	SS18-DP30
1.COMPANY NAME	NationView
2.DRILLING CONTRACTOR	Vironex
SHEET	1 OF 2 SHEETS
3.PROJECT	SS-18 Supplemental ACM
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	Chris Flaherty
6.MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 6600
7.SIZES AND TYPE OF DRILLING EQUIPMENT	5' Macro Core; 5' Acetate Liners
8.HOLE LOCATION (NM Central State Plane)	Northing 671064.86 Easting 1691952.17
9.SURFACE ELEVATION (FT. NAVD88)	
10.DATE STARTED	15-Aug-12
11.DATE COMPLETED	15-Aug-12
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	3
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	15
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3						
4	Light Reddish brown- 5 YR 6/4 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm				
7						
	Light Reddish brown- 5 YR 6/4 Silty Clay (CL/ML) with coarse gypsum inclusions					5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm				
9						
	Increasing moisture with depth Moist to wet	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO.
SS18-DP30

PROJECT	INSPECTOR	SHEET 2
SS-18 Supplemental ACM	Z. Beck	OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
					SS18-DP30-11 @ 1010		
	11		10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
		Very Pale Brown- 10 YR 8/3					
	13	Silt- Dense					
		Dry	12-14 PID: 0.0ppm				
	14						
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project	HOLE NO.
	SS18-Supplemental ACM	SS18-DP30

HTW DRILLING LOG

HOLE NO. SS18-DP31		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane): Northing 671019.07 Easting 1691992.19	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2.5	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (2)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3						
4	Light Reddish brown- 5 YR 6/4 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm				
7						
8	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) with coarse angular gypsum inclusions	6-8 PID: 0.0ppm				5-10' bgs 100% recovery
9						
10		8-10 PID: 0.0ppm				

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP31
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above wet from 10 to 11.5' bgs			SS18-DP31-11 -DP31-11-A @ 1045		duplicate collected
	11		10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13						
	14	Very Pale Brown- 10 YR 8/3 Silt- Dense **High gypsum content** Dry	12-14 PID: 0.0ppm				
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP31

HTW DRILLING LOG

HOLE NO. SS18-DP32		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane): Northing 670965.79 Easting 1692046.39	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 5	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping Rock					
1	Backfill Material	0-2 PID: 0.0ppm				
2						
3	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	2-4 PID: 0.0ppm				
4	Saturated at 5' bgs					
5		4-6 PID: 0.0ppm				
6						
7		6-8 PID: 0.0ppm				5-10' bgs 100% recovery
8						
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP32		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12				SS18-DP32-12 @ 1605		10-15' bgs 100% recovery
	13		12-14 PID: 0.0ppm				
	14						
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP32

HTW DRILLING LOG

HOLE NO. SS18-DP33		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane): Northing 670977.44 Easting 1691948.00	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (2)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
		0-2 PID: 0.0ppm				
2	Saturated at 3' bgs					
3						
		2-4 PID: 0.0ppm				
4						
5						
		4-6 PID: 0.0ppm				
6						
7						
	Saturated at 8' bgs	6-8 PID: 0.0ppm		SS18-DP33-8 -DP33-8-A @ 1120		5-10' bgs 100% recovery
8	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
	gypsum crystal inclusions					
9	Moist					
		8-10 PID: 0.0ppm				
10						

	Project: SS-18 Supplemental ACM	HOLE NO. SS18-DP33

HTW DRILLING LOG

HOLE NO. SS18-DP33		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12	Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense					
	13		12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP33

HTW DRILLING LOG

HOLE NO. SS18-DP34		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane): Northing 670927.49 Easting 1692001.36	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 16-Aug-12	11.DATE COMPLETED: 16-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 4.5	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping Rock					
	Backfill Material					
1	Gravels Brown Sand					
2		0-2 PID: 0.0ppm				
3						
	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
4		2-4 PID: 0.0ppm				
	Saturated at 4.5' bgs					
5						
6		4-6 PID: 0.0ppm				
7	Light Reddish Brown- 5YR 6/4 Sandy Silt (SM) Saturated					
8		6-8 PID: 0.0ppm		SS18-DP34-8 @ 0830		5-10' bgs 100% recovery
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
10		8-10 PID: 0.0ppm				

	Project: SS-18 Supplemental ACM	HOLE NO. SS18-DP34

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP34
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
		Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense					
	13		12-14 PID: 0.0ppm				
	14						
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP34

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SS18-DP35 SHEET 1 OF 2 SHEETS
3.PROJECT SS-18 Supplemental ACM	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 5' Macro Core 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane) Northing 671029.89 Easting 1691812.93 9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 15-Aug-12	11.DATE COMPLETED 15-Aug-12
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3	Saturated at 3' bgs					
4		2-4 PID: 0.0ppm				
5				SS18-DP35-5 @ 1300		
6		4-6 PID: 0.0ppm				
7	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist					5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm				
	Increasing gypsum content and coarsening with depth					
9						
10		8-10 PID: 0.0ppm				

HTW DRILLING LOG

HOLE NO. SS18-DP35		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11	Thin sand lense light brown- 7.5YR 6/3 Saturated	10-12 PID: 0.0ppm				
	12	Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense					10-15' bgs 100% recovery
	13		12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP35

HTW DRILLING LOG

HOLE NO. SS18-DP36		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane): Northing 670981.61 Easting 1691857.96	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 15-Aug-12	11.DATE COMPLETED: 15-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3	Saturated at 3' bgs					
4		2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm		SS18-DP36-7 @ 1330		
7	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist					5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm				
	Increasing gypsum content and coarsening with depth					
9						
10		8-10 PID: 0.0ppm				

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP36
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
		Moist at 11' bgs					
	11						
			10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
		Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense					
	13						
			12-14 PID: 0.0ppm				
	14						
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP36

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SS18-DP37 SHEET 1 OF 2 SHEETS
3.PROJECT SS-18 Supplemental ACM	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 5' Macro Core 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane) Northing 670934.15 Easting 1691897.14 9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 15-Aug-12	11.DATE COMPLETED 15-Aug-12
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1						
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
3	Saturated at 3' bgs					
4		2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm				
7						5-10' bgs 100% recovery
8		6-8 PID: 0.0ppm		SS18-DP37-8 @ 1155		
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist with coarse angular gypsum inclusions	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP37		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12	Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense					10-15' bgs 100% recovery
	13		12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP37

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SS18-DP38 SHEET 1 OF 2 SHEETS
3.PROJECT SS-18 Supplemental ACM	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 5' Macro Core 5' Acetate Liners	8.HOLE LOCATION (IN East 1301 State Plane) Northing 670881.71 Easting 1691949.67 9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED 16-Aug-12	11.DATE COMPLETED 16-Aug-12
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (2)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite	NA	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping Gravels					
1	Backfill Material	0-2 PID: 0.0ppm				
2						
3	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	2-4 PID: 0.0ppm				
4	Saturated at 4' bgs					
5						
6		4-6 PID: 0.0ppm				
7	Light reddish brown- 5YR 6/4 Sand Saturated	6-8 PID: 0.0ppm		SS18-DP38-8 -DP38-8-A @ 0800		field dup collected
8						
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist with fine grain angular gypsum inclusions	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP38		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
		Sand lense Moist	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13						
		Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense	12-14 PID: 0.0ppm				
	14						
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP38

HTW DRILLING LOG

HOLE NO. SS18-DP39/MW23		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671652.708 Easting 1691875.838	
	9.SURFACE ELEVATION (FT. NAVD88): 4073.004	
	10.DATE STARTED: 14-Aug-12	11.DATE COMPLETED: 16-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Backfill Material					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
2						
3	light reddish brown- 5YR 6/4 Silty Sand Saturated at 3' bgs	2-4 PID: 0.0ppm				
4						
5						
6		4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm		SS18-DP39-8 @ 0930		
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist with fine grain angular gypsum inclusions	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP39/MW23		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10 11 12 13	Same as above	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	14 15	Very Pale Brown- 10YR 8/3 Silt (ML) High gypsum content Dense	12-14 PID: 0.0ppm				
	16 17 18 19 20 21 22 23 24 25	End of Boring (15' bgs)					

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP39/MW23

HTW DRILLING LOG

HOLE NO. SS18-DP40/MW24		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 671625.272 Easting 1692080.592	
	9.SURFACE ELEVATION (FT. NAVD88): 4073.617	
	10.DATE STARTED: 14-Aug-12	11.DATE COMPLETED: 16-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 4	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Backfill Material					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)					
2		0-2 PID: 0.0ppm				
3						
4		2-4 PID: 0.0ppm				
	Saturated at 4' bgs					
	light reddish brown- 5YR 6/4 Silty Sand					
5						
6		4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm		SS18-DP40-8 @ 1020		
9						
	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
10		8-10 PID: 0.0ppm				

HTW DRILLING LOG

HOLE NO. SS18-DP40/MW24		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
		Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Moist with fine grain angular gypsum inclusions	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	11						
	12						
	13		12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP40/MW24

HTW DRILLING LOG

1.COMPANY NAME NationView	2.DRILLING CONTRACTOR Vironex	HOLE NO. SS18-DP41/MW25 SHEET 1 OF 2 SHEETS
3.PROJECT SS-18 Supplemental ACM	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 5' Macro Core 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane) Northing 670931.096 Easting 1691524.847	
	9.SURFACE ELEVATION (FT. NAVD88) 4067.653	
	10.DATE STARTED 17-Aug-12	11.DATE COMPLETED 17-Aug-12
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
1	Roadbase gravels/ Backfill Material					
2	Light Brown- 7.5YR 6/3 Silty Sand Dry	0-2 PID: 0.0ppm				
3						
4	Very Pale Brown- 10YR 8/3 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm				
7				SS18-DP41-7 @ 0820		
8		6-8 PID: 0.0ppm				
9	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) High gypsum content moist	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

HOLE NO. SS18-DP41/MW25		
PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck	SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
	12						10-15' bgs 100% recovery
		Thin Sand Lense (SM)					
	13						
		Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)	12-14 PID: 0.0ppm				
	14						
		Very Pale Brown- 10YR 8/3 Silt Dense- Dry					
	15						
		End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP41/MW25

HTW DRILLING LOG

HOLE NO. SS18-DP42/MW26		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 670793.580 Easting 1691424.336	
	9.SURFACE ELEVATION (FT. NAVD88): 4067.202	
	10.DATE STARTED: 16-Aug-12	11.DATE COMPLETED: 18-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2 - 2.5	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
1	Roadbase gravels/ Backfill Material					
2	Very Pale Brown- 10YR 8/3 Silty Sand (SM) Dry	0-2 PID: 0.0ppm				
3–6	Light Reddish brown- 5 YR 6/4 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm; 4-6 PID: 0.0ppm		SS18-DP42-5 @ 0955		
7–8	Very Pale Brown- 10YR 8/3 Silt- Dense Dry	6-8 PID: 0.0ppm				
9–10	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)	8-10 PID: 0.0ppm				

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM			INSPECTOR Z. Beck			SHEET 2 OF 2 SHEETS	HOLE NO. SS18-DP42/MW26
Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11	Thin Sand lense (SM) Moist	10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Dry	12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
Note:			Project SS18-Supplemental ACM				HOLE NO. SS18-DP42/MW26

HTW DRILLING LOG

HOLE NO. SS18-DP43/MW27		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 670645.781 Easting 1691339.967	
	9.SURFACE ELEVATION (FT. NAVD88)	
	10.DATE STARTED: 16-Aug-12	11.DATE COMPLETED: 17-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3.5 -4	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping Gravel					
1	Backfill Material					
	Dry	0-2 PID: 0.0ppm				
2						
3						
	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	2-4 PID: 0.0ppm				
4	Saturated					
				SS18-DP43-5 @ 1025		
5						
6	Light Reddish brown- 5 YR 6/4 Silty Sand (SM) Moist	4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm				
9						
	Very Pale Brown- 10YR 8/3 Sand (SM) Fine grained	8-10 PID: 0.0ppm				
10	Moist at 10, bgs					

HTW DRILLING LOG

HOLE NO. SS18-DP43/MW27

PROJECT
SS-18 Supplemental ACM

INSPECTOR
Z. Beck

SHEET 2
OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				
		Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					10-15' bgs 100% recovery
	12	Very Pale Brown- 10YR 8/3 Sand (SM)					
		Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
	13	Very Pale Brown- 10YR 8/3 Sand (SM)					
		Reddish brown- 5 YR 5/3 Silty Clay (CL/ML) Dry	12-14 PID: 0.0ppm				
	14	Thin Sand lense (SM) Coarse- well sorted					
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:

Project
SS18-Supplemental ACM

HOLE NO.
SS18-DP43/MW27

HTW DRILLING LOG

HOLE NO.	SS18-DP44/MW28
1.COMPANY NAME	NationView
2.DRILLING CONTRACTOR	Vironex
SHEET	1 OF 2 SHEETS
3.PROJECT	SS-18 Supplemental ACM
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	Chris Flaherty
6.MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 6600
7.SIZES AND TYPE OF DRILLING EQUIPMENT	5' Macro Core 5' Acetate Liners
8.HOLE LOCATION (NM Central State Plane)	Northing 670522.571 Easting 1691697.023
9.SURFACE ELEVATION (FT. NAVD88)	4066.634
10.DATE STARTED	16-Aug-12
11.DATE COMPLETED	17-Aug-12
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	3.5
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	15
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (3)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Top Soil					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
2						
3						
4	Light Reddish brown- 5 YR 6/4 Silty Sand (SM) Saturated	2-4 PID: 0.0ppm				
5						
6		4-6 PID: 0.0ppm		SS18-DP44-7 -DP44-7-MS -DP44-7-MSD @ 0910		
7	Reddish brown- 5 YR 5/3 Silty Clay (CL/ML)					
8	Moist	6-8 PID: 0.0ppm				
9						
10		8-10 PID: 0.0ppm				

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP44/MW28
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Light Brown- 7.5YR 6/3 Sand Lense (SM)					
	11		10-12 PID: 0.0ppm				
	12	Very Pale Brown- 10 YR 8/3 Silt Very Dense Dry					10-15' bgs 100% recovery
	13						
	14		12-14 PID: 0.0ppm				
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP44/MW28

HTW DRILLING LOG

HOLE NO.	SS18-DP45/MW29
1.COMPANY NAME	NationView
2.DRILLING CONTRACTOR	Vironex
SHEET	1 OF 2 SHEETS
3.PROJECT	SS-18 Supplemental ACM
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	Chris Flaherty
6.MANUFACTURER'S DESIGNATION OF DRILL	Geoprobe 6600
7.SIZES AND TYPE OF DRILLING EQUIPMENT	5' Macro Core 5' Acetate Liners
8.HOLE LOCATION (NM Central State Plane)	Northing 670316.022 Easting 1691035.294
9.SURFACE ELEVATION (FT. NAVD88)	4064.066
10.DATE STARTED	17-Aug-12
11.DATE COMPLETED	17-Aug-12
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	4.5
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	15
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Asphalt Surface					
	Roadbase/ Backfill Material					
1	Grey Staining Slight Fuel Odor	0-2 PID:3.1ppm				
2						
3	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	2-4 PID:15.8ppm				
4						
5	Grey Staining Strong Fuel Odor Saturated	4-6 PID:205ppm				
6						
7						
8		6-8 PID:203ppm		SS18-DP45-8 @ 1100		
9						
	Light Brown- 7.5YR 6/3 Silty Sand	8-10 PID: 0.0ppm				
10						

Project	SS-18 Supplemental ACM
HOLE NO.	SS18-DP45/MW29

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP45/MW29
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID:76.5ppm				10-15' bgs 100% recovery
	12						
	13	Very Pale Brown- 10 YR 8/3 Silt Very Dense Dry	12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP45/MW29

HTW DRILLING LOG

HOLE NO. SS18-DP46/MW30		
1.COMPANY NAME: NationView	2.DRILLING CONTRACTOR: Vironex	SHEET 1 OF 2 SHEETS
3.PROJECT: SS-18 Supplemental ACM	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: Chris Flaherty	6.MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 6600	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 5' Macro Core; 5' Acetate Liners	8.HOLE LOCATION (NM Central State Plane): Northing 670218.249 Easting 1691171.037	
	9.SURFACE ELEVATION (FT. NAVD88): 4063.875	
	10.DATE STARTED: 17-Aug-12	11.DATE COMPLETED: 17-Aug-12
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 15	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
NA	NA	NA	NA

20.SAMPLES FOR CHEMICAL ANALYSIS: Yes (1)	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	VOC	TAL	SVOC	TPH-G/D/O	PCB	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Monitoring Well	NA	2" PVC	NA	

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Landscaping gravels					
	Backfill Material					
1	Very Pale Brown- 10YR 8/3 Silty Sand (SM)	0-2 PID: 0.0ppm				
2						
3	Saturated at 3' bgs					
4		2-4 PID: 0.0ppm				
5	Light Reddish Brown- 5YR 6/4 Silty Sand (SM)					
6		4-6 PID: 0.0ppm				
7						
8		6-8 PID: 0.0ppm		SS18-DP46-8 @ 1330		
9						
	Reddish Brown- 5YR 4/3 Silty Clay (CL/ML)	8-10 PID: 0.0ppm				
10						

HTW DRILLING LOG

PROJECT SS-18 Supplemental ACM	INSPECTOR Z. Beck		HOLE NO. SS18-DP46/MW30
			SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11		10-12 PID: 0.0ppm				10-15' bgs 100% recovery
	12						
	13	Very Pale Brown- 10 YR 8/3 Silt Very Dense Dry	12-14 PID: 0.0ppm				
	14						
	15	End of Boring (15' bgs)					
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

Note:	Project SS18-Supplemental ACM	HOLE NO. SS18-DP46/MW30

APPENDIX C

SUPPLEMENTAL ACM MONITORING WELL CONSTRUCTION DIAGRAMS

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW23/SB39
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/14/2012 - 8/16/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	671652.708
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691875.838

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4077.814

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 4.00

Date 8/14/2012

Pre Development: 4.88

Date 8/17/2012

Post Development: 6.90

Date 8/17/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

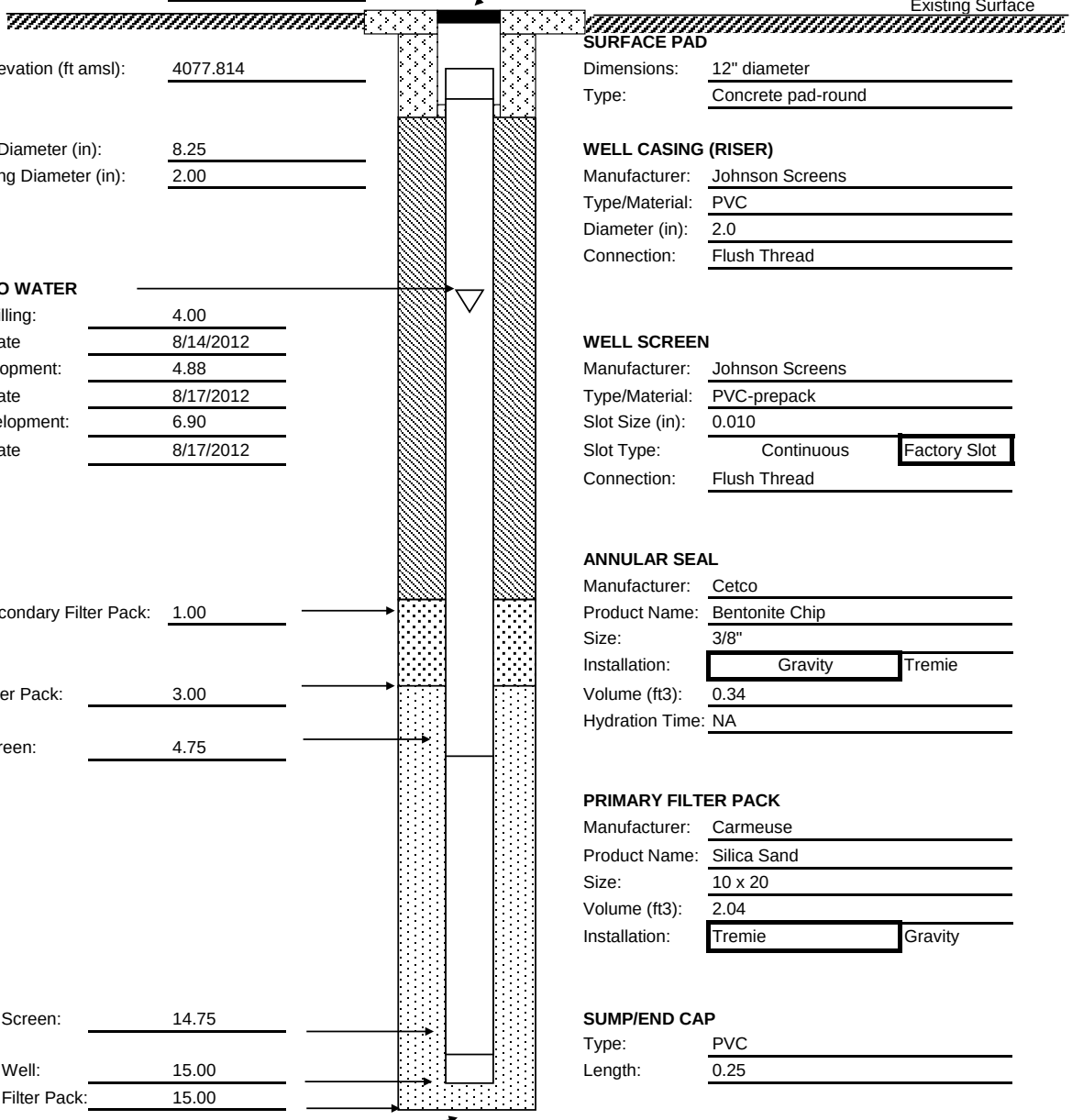
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 0.34

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW24/SB40
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/14/2012 - 8/16/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	671625.272
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1692080.592

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4079.267

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	4.00
Date	8/14/2012
Pre Development:	5.62
Date	8/17/2012
Post Development:	7.81
Date	8/17/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

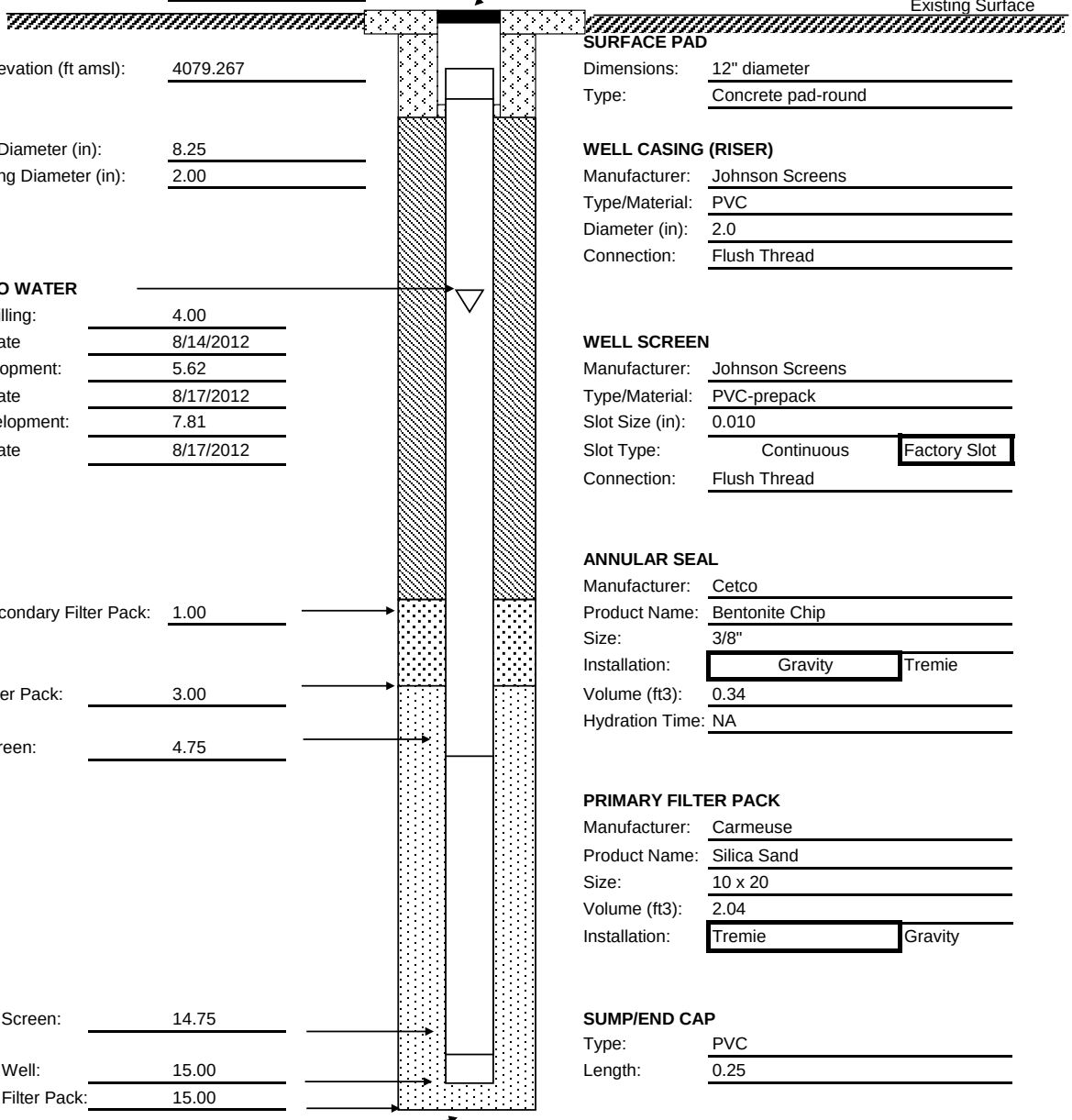
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW25/SB41
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/17/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670931.096
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691524.847

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4072.683

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	3.00
Date	8/17/2012
Pre Development:	5.10
Date	8/20/2012
Post Development:	8.21
Date	8/20/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

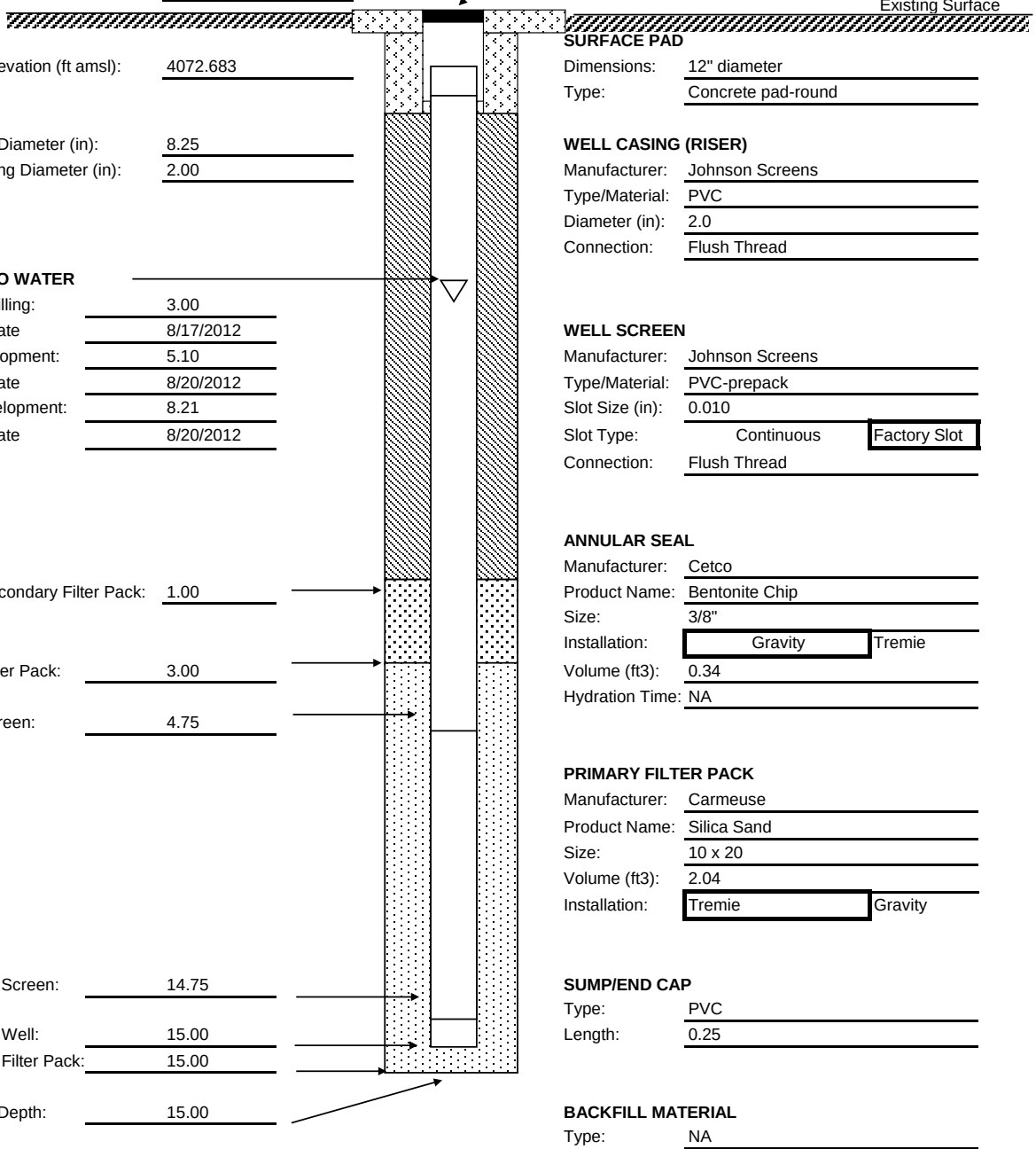
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW26/SB42
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/18/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670793.580
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691424.336

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4070.712

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	2.50
Date	8/18/2012
Pre Development:	3.48
Date	8/19/2012
Post Development:	4.24
Date	8/19/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

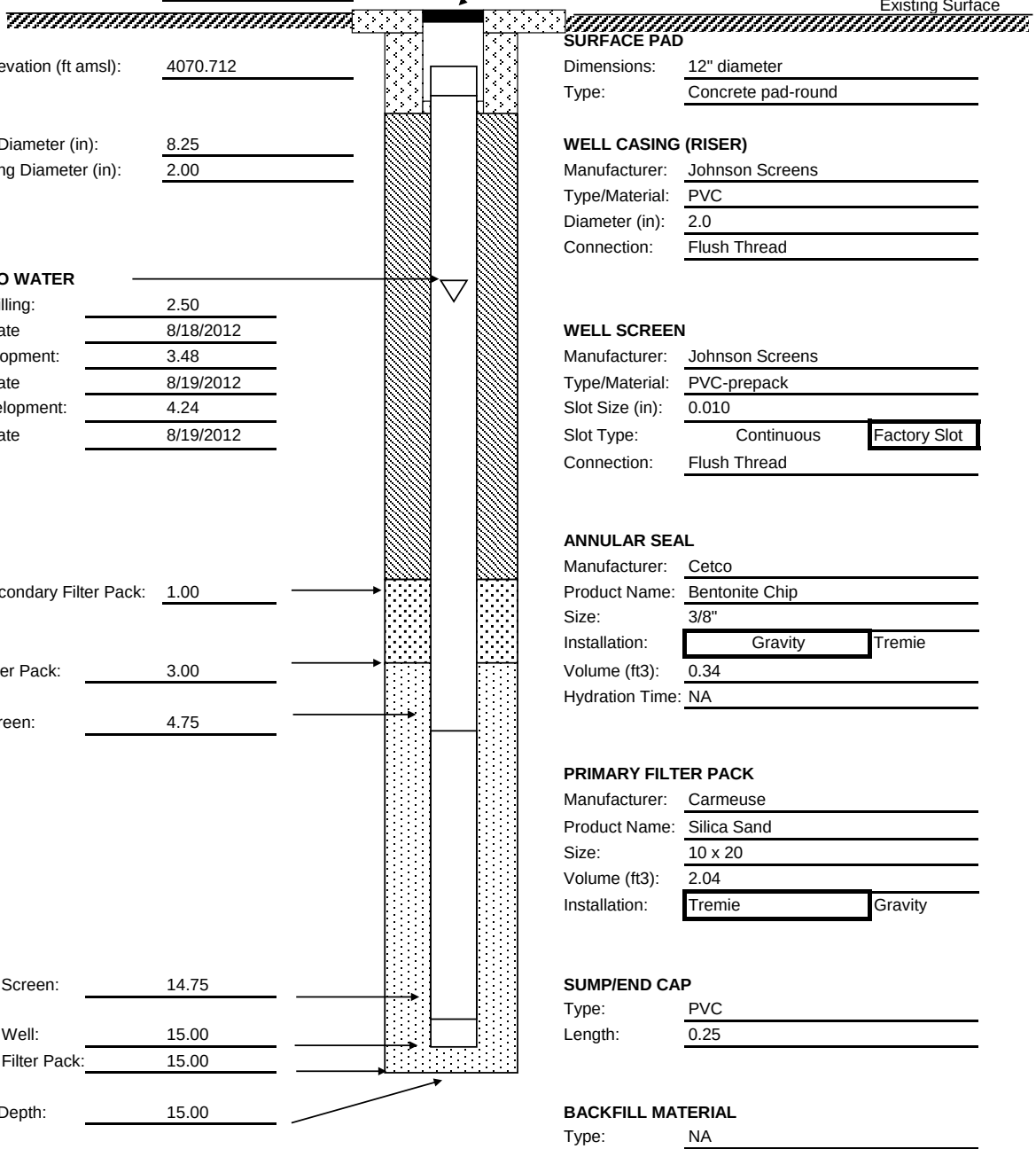
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW27/SB43
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/16/2012 - 8/17/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670645.781
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691339.967

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): Not Available

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling: 3.50

Date 8/16/2012

Pre Development: 5.62

Date 8/18/2012

Post Development: 7.04

Date 8/18/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

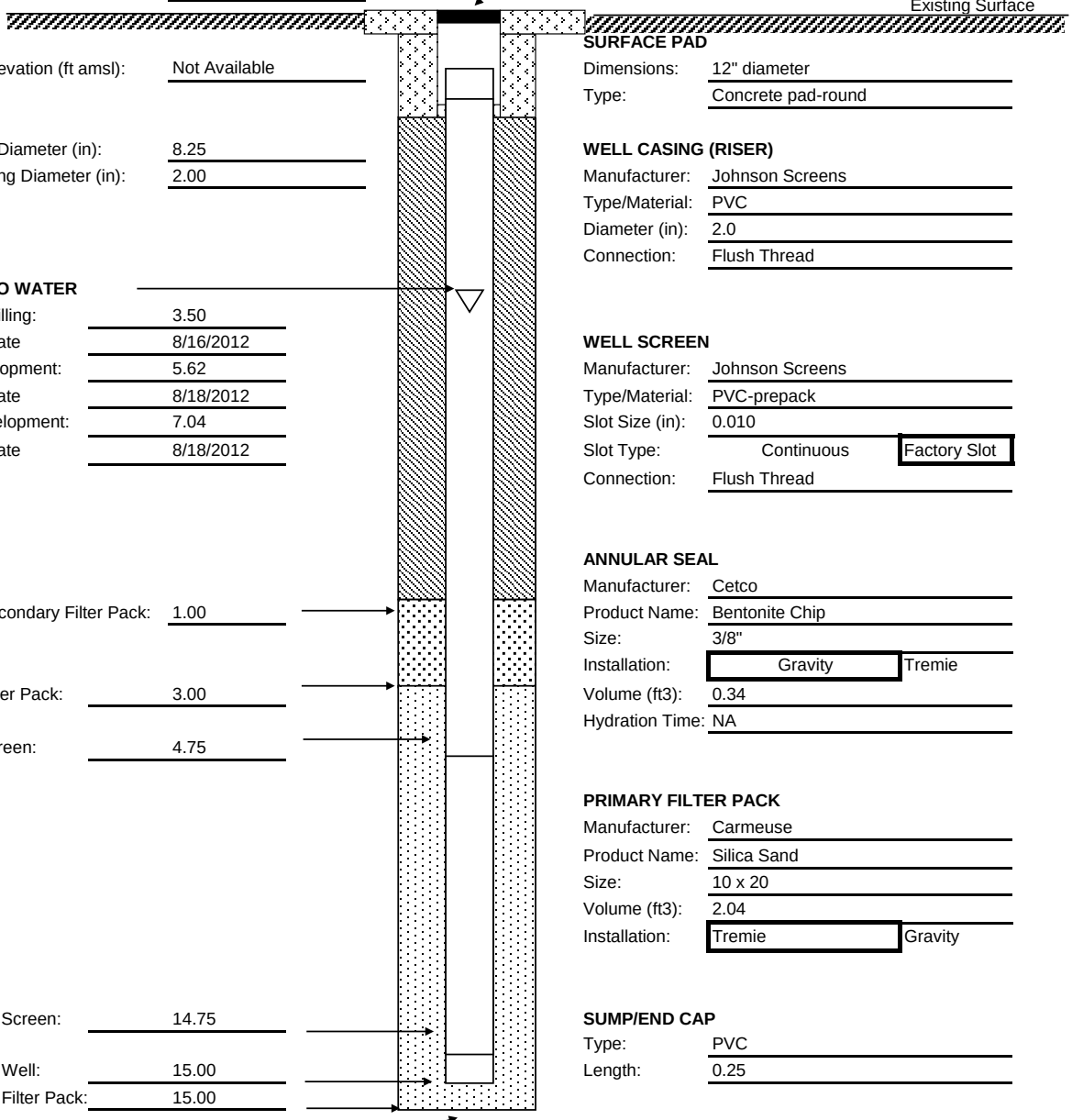
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type: Flush Mount Cover

Dimensions: 8" diameter

Length: 12" deep

SURFACE PAD

Dimensions: 12" diameter

Type: Concrete pad-round

WELL CASING (RISER)

Manufacturer: Johnson Screens

Type/Material: PVC

Diameter (in): 2.0

Connection: Flush Thread

WELL SCREEN

Manufacturer: Johnson Screens

Type/Material: PVC-prepack

Slot Size (in): 0.010

Slot Type: Continuous | **Factory Slot**

Connection: Flush Thread

ANNULAR SEAL

Manufacturer: Cetco

Product Name: Bentonite Chip

Size: 3/8"

Installation: **Gravity** | Tremie

Volume (ft3): 0.34

Hydration Time: NA

PRIMARY FILTER PACK

Manufacturer: Carmeuse

Product Name: Silica Sand

Size: 10 x 20

Volume (ft3): 2.04

Installation: **Tremie** | Gravity

SUMP/END CAP

Type: PVC

Length: 0.25

BACKFILL MATERIAL

Type: NA

Volume: NA

Comments: Nearby buildings disrupted the radio link on the Trimble GPS, preventing an accuarte TOC measurment.

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW28/SB44
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/16/2012 - 8/17/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670522.571
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691697.023

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4070.884

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	3.50
Date	8/16/2012
Pre Development:	4.21
Date	8/18/2012
Post Development:	6.11
Date	8/18/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

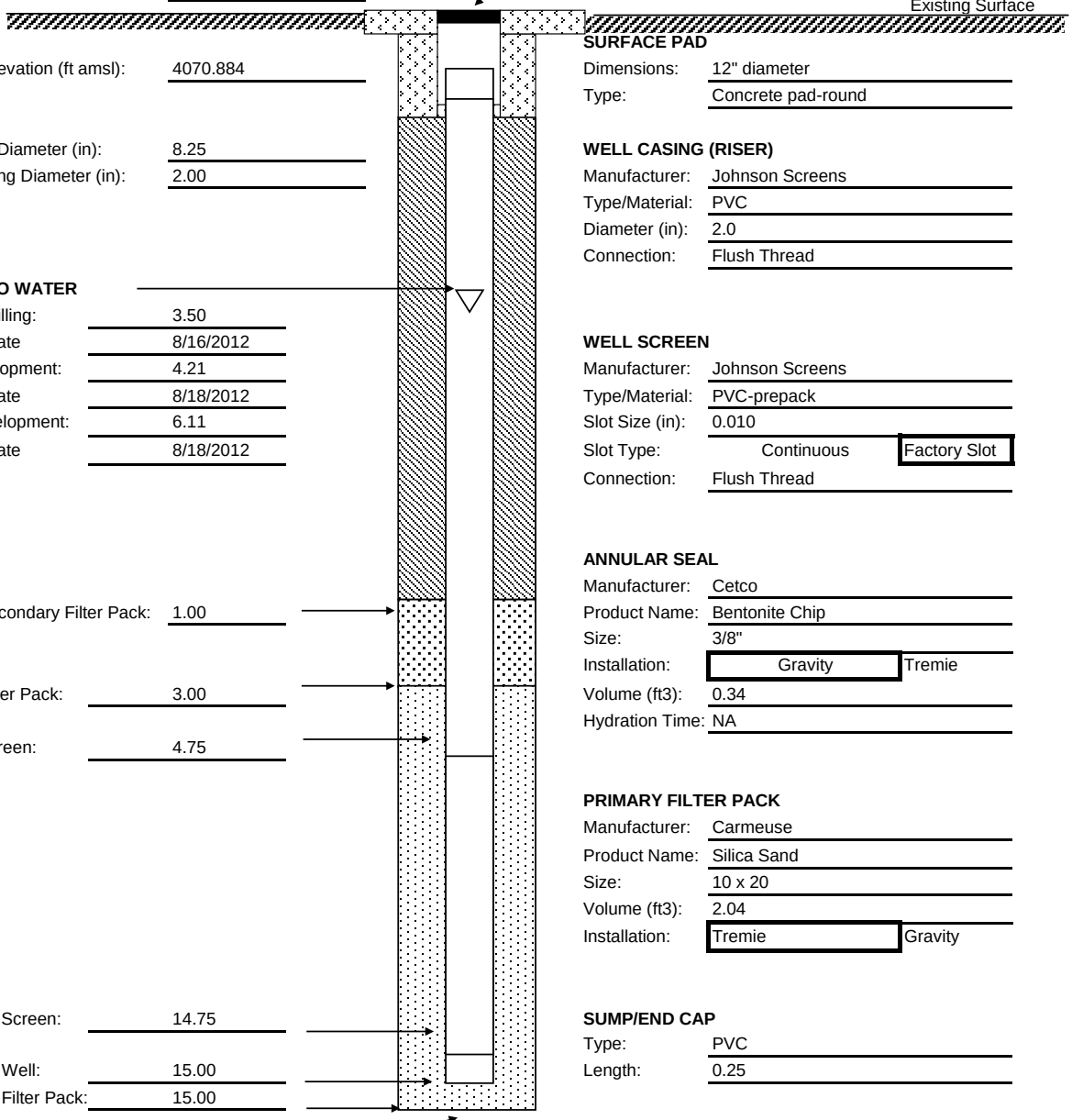
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW29/SB45
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/17/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670316.022
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691035.294

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4071.226

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	3.00
Date	8/17/2012
Pre Development:	7.21
Date	8/18/2012
Post Development:	11.68
Date	8/18/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

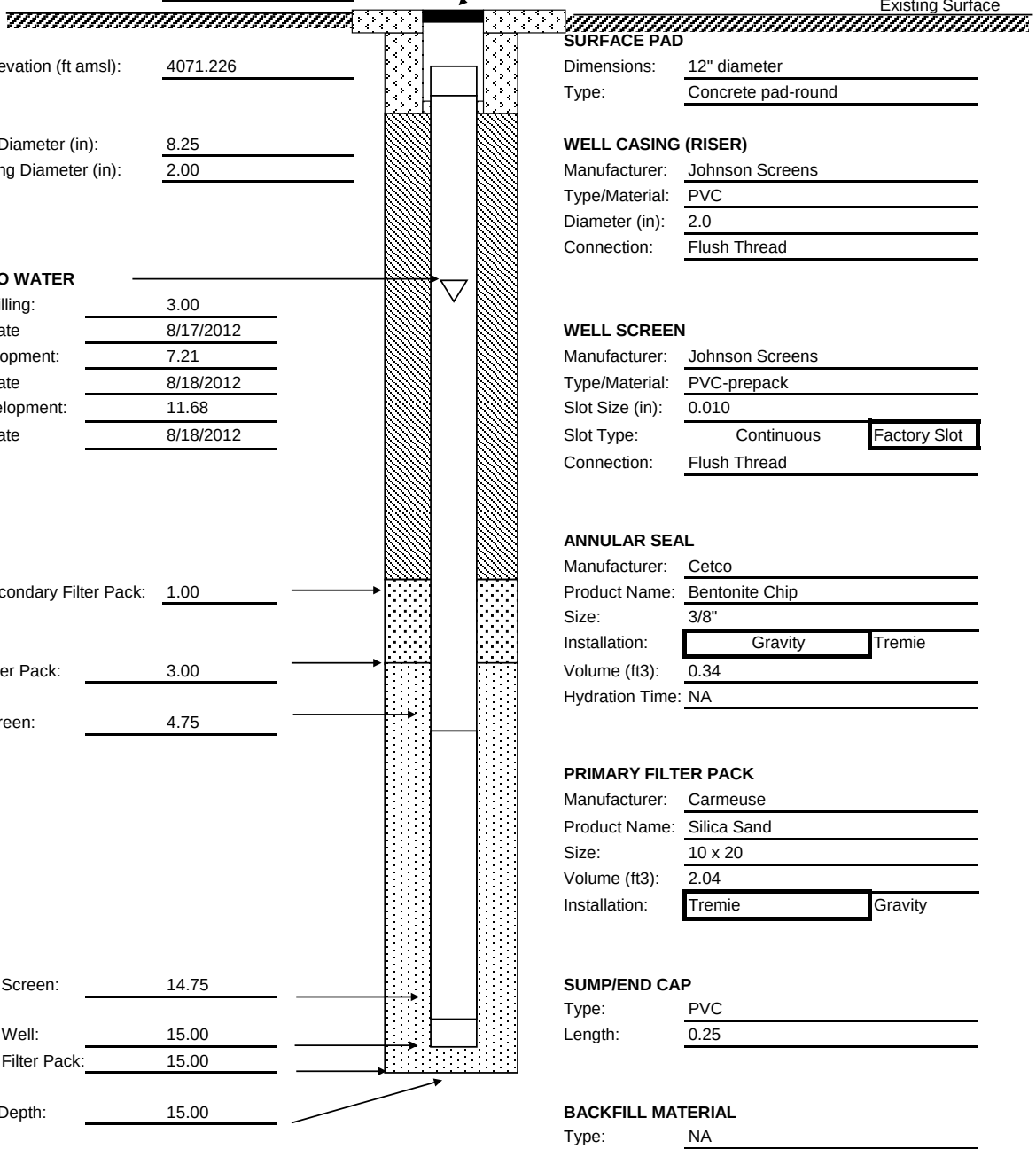
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

NATIONVIEW

WELL CONSTRUCTION DIAGRAM (Flush Mount)

SITE:	SS-18 (Chromic Acid Spill Site)	**WELL/BORING ID:**	SS18-MW30/SB46
PROJECT NAME:	SS-18 Supplemental ACM	**DRILLING METHOD:**	Hollow Stem Auger
PROJECT NO./PHASE:	11-0020/02	**DATE(S):**	8/17/2012
DRILLING CONTRACTOR:	Vironex	**SURVEYOR:**	B. Parrish
DRILLER:	C. Flaherty	**NORTHING (NAD 83):**	670218.249
GEOLOGIST:	Z. Beck	**EASTING (NAD 83):**	1691171.037

NOT TO SCALE

Surface Elevation (ft amsl):

Casing Elevation (ft amsl): 4070.415

Borehole Diameter (in): 8.25

Well Casing Diameter (in): 2.00

DEPTH TO WATER

During Drilling:	3.00
Date	8/17/2012
Pre Development:	6.61
Date	8/18/2012
Post Development:	11.96
Date	8/18/2012

Top of Secondary Filter Pack: 1.00

Top of Filter Pack: 3.00

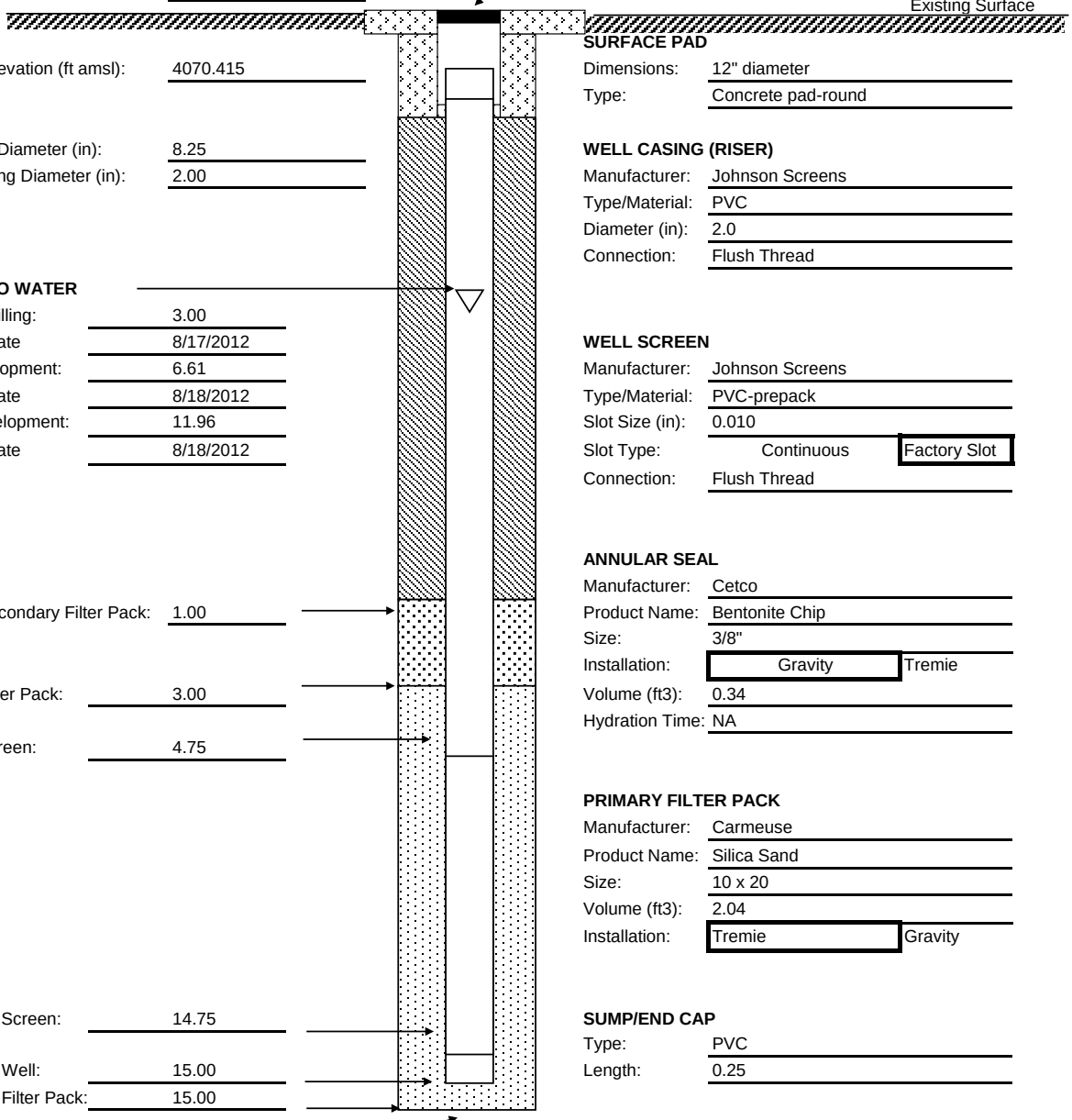
Top of Screen: 4.75

Bottom of Screen: 14.75

Bottom of Well: 15.00

Bottom of Filter Pack: 15.00

Borehole Depth: 15.00



PROTECTIVE CASING

Type:	Flush Mount Cover
Dimensions:	8" diameter
Length:	12" deep

SURFACE PAD

Dimensions:	12" diameter
Type:	Concrete pad-round

WELL CASING (RISER)

Manufacturer:	Johnson Screens
Type/Material:	PVC
Diameter (in):	2.0
Connection:	Flush Thread

WELL SCREEN

Manufacturer:	Johnson Screens	
Type/Material:	PVC-prepack	
Slot Size (in):	0.010	
Slot Type:	Continuous	Factory Slot
Connection:	Flush Thread	

ANNULAR SEAL

Manufacturer:	Cetco	
Product Name:	Bentonite Chip	
Size:	3/8"	
Installation:	Gravity	Tremie
Volume (ft3):	0.34	
Hydration Time:	NA	

PRIMARY FILTER PACK

Manufacturer:	Carmeuse	
Product Name:	Silica Sand	
Size:	10 x 20	
Volume (ft3):	2.04	
Installation:	Tremie	Gravity

SUMP/END CAP

Type:	PVC
Length:	0.25

BACKFILL MATERIAL

Type:	NA
Volume:	NA

Comments:

APPENDIX D

SUPPLEMENTAL ACM MONITORING WELL DEVELOPMENT FORMS

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW23	Date: 8/17/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: D. Berry
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:		Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.88	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny - 90
	(B) Total Well Depth (ft BTOC):	15.23	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	10.35	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.7	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/17/2012	0815	6.96	15	1.0	26.7	7.95	9.24	5.96	472	39	Turbid, no odor
8/17/2012	0820	7.11	20	1.0	26.8	7.67	9.08	6.23	236	60	Turbid, no odor
8/17/2012	0825	7.73	25	1.0	26.8	7.59	9.02	5.78	136	72	Cloudy, no odor
8/17/2012	0830	7.08	30	1.0	26.8	7.58	8.96	5.69	97	75	Clear, no odor
8/17/2012	0835	6.98	35	1.0	26.8	7.58	8.93	5.72	93	76	Clear, no odor
8/17/2012	0840	6.96	40	1.0	26.8	7.57	8.91	5.64	95	81	Clear, no odor
8/17/2012	0845	6.94	45	1.0	26.8	7.57	8.86	5.50	90	83	Clear, no odor
8/17/2012	0850	6.92	50	1.0	26.9	7.57	8.82	5.41	96	84	Clear, no odor
8/17/2012	0855	6.90	55	1.0	26.9	7.57	8.79	5.36	91	86	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Pumped and surged well within the screened interval for 30 minutes and approximately 15 gallons were removed.

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW24	Date: 8/17/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: D. Berry
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	LaMotte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.62	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny - 90 F
	(B) Total Well Depth (ft BTOC):	15.23	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	9.61	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.50	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/17/2012	1015	6.96	15	1.0	26.0	8.75	3.6	4.76	49	63	Clear, no odor
8/17/2012	1020	7.02	20	1.0	26.2	8.77	3.5	4.37	4	58	Clear, no odor
8/17/2012	1025	7.82	25	1.0	26.2	8.67	3.5	4.53	2	61	Clear, no odor
8/17/2012	1030	7.96	30	1.0	26.3	8.61	3.5	4.66	2	63	Clear, no odor
8/17/2012	1035	7.98	35	1.0	26.3	8.57	3.5	4.59	1	65	Clear, no odor
8/17/2012	1040	7.84	40	1.0	26.3	8.50	3.5	4.60	2	67	Clear, no odor
8/17/2012	1045	7.81	45	1.0	26.3	8.48	3.5	4.56	2	69	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Pumped and surged the well within the screened interval for 30 minutes untill approximately 15 gallons were removed.

*Initial turbidity reading with Horiba documented, checked with the LaMotte. Initial reading with the LaMotte was 8.82 NTUs. LaMotte used the remainder of the time

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW25	Date: 8/20/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	YSI-556	PID Type/ID#:
	Water Level Indicator Type/ID#:	Solinst	Other Equipment/ID#:	LaMotte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.10	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.25	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	10.15	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.62	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/20/2012	0940	7.25	2	0.4	25.96	6.69	3.45	3.10	7.5	89.8	Clear, no odor
8/20/2012	0945	7.65	4	0.4	25.70	6.62	3.33	2.34	6.9	92.2	Clear, no odor
8/20/2012	0950	8.17	6	0.4	25.63	6.65	3.29	1.95	4.3	89.4	Clear, no odor
8/20/2012	0955	8.24	8	0.4	25.67	6.65	3.28	1.96	4.7	88.7	Clear, no odor
8/20/2012	1000	8.20	10	0.4	25.68	6.68	3.27	1.91	4.5	88.6	Clear, no odor
8/20/2012	1005	8.21	12	0.4	25.67	6.69	3.27	1.92	4.5	88.1	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS:

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW26	Date: 8/19/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	LaMotte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	3.48	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny -
	(B) Total Well Depth (ft BTOC):	15.33	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	11.85	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.90	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/19/2012	0855	5.55	15	1.0	27.89	7.31	3.16	2.72	218	-10	Cloudy, no odor
8/19/2012	0900	5.55	20	1.0	27.77	7.30	3.21	2.59	138	-3	Cloudy, no odor
8/19/2012	0905	5.72	25	1.0	27.67	7.30	3.23	2.47	186	-5	Cloudy, no odor
8/19/2012	0910	5.83	30	1.0	27.45	7.30	3.30	2.35	155	-7	Clear, no odor
8/19/2012	0915	5.66	35	1.0	26.95	7.29	3.45	2.06	27.5	-2	Clear, no odor
8/19/2012	0920	5.01	40	1.0	26.44	7.26	3.72	1.44	65.3	9	Clear, no odor
8/19/2012	0925	4.41	45	1.0	26.39	7.25	3.64	1.08	95.1	15	Clear, no odor
8/19/2012	0930	4.32	50	1.0	26.55	7.24	3.67	1.21	5.02	19	Clear, no odor
8/19/2012	0935	4.24	55	1.0	26.91	7.24	3.64	1.28	32.8	24	Clear, no odor
8/19/2012	0940	4.24	60	1.0	26.85	7.24	3.63	1.23	15.4	24	Clear, no odor
8/19/2012	0945	4.24	65	1.0	26.87	7.24	3.58	1.19	8.91	24	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Purged and surged the well for 30 minutes. Approximately 15 gallons were removed prior to taking readings.

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION			
	Site: SS-18	Location ID: SS18-MW26	Date: 8/19/2012
	Project Name: Supplemental ACM	Project No./Phase: 11-0020	Recorded By: Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/19/2012	0950	4.24	70	1.0	26.75	7.25	3.56	1.25	6.55	26	Clear, no odor

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW27	Date: 8/18/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: D. Berry
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	LaMotte 2020 Turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.62	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny - 90s
	(B) Total Well Depth (ft BTOC):	15.00	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	9.38	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.50	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/18/2012	0830	7.07	15	1.0	22.8	7.69	3.66	1.7	319	87	Turbid, no odor
8/18/2012	0835	7.05	20	1.0	22.9	7.28	3.62	1.4	7.5	54	Clear, no odor
8/18/2012	0840	7.04	25	1.0	22.9	7.22	3.61	1.3	4.5	49	Clear, no odor
8/18/2012	0845	7.04	30	1.0	22.9	7.20	3.61	1.3	2.0	48	Clear, no odor
8/18/2012	0850	7.04	35	1.0	23.0	7.15	3.59	1.3	1.2	47	Clear, no odor
8/18/2012	0855	7.04	40	1.0	23.0	7.15	3.58	1.2	1.0	47	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Prior to connecting the Horiba, the well was pumped and surged for 30 minutes and approximately 15 gallons were removed.

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW28	Date: 8/18/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: D. Berry
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	La Motte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.21	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny - 90s F
	(B) Total Well Depth (ft BTOC):	15.48	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	11.27	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.80	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/18/2012	1030	6.22	20	1.0	22.2	7.69	9.97	2.4	814	92	Turbid, no odor
8/18/2012	1035	5.97	25	1.0	22.3	7.72	9.39	1.7	265	64	Cloudy, no odor
8/18/2012	1040	5.97	30	1.0	22.3	7.67	9.09	1.4	123	47	Cloudy, no odor
8/18/2012	1045	6.06	35	1.0	22.4	7.65	9.01	1.1	118	40	Cloudy, no odor
8/18/2012	1050	6.06	40	1.0	22.3	7.63	8.99	1.4	88	35	Clear, no odor
8/18/2012	1055	6.14	45	1.0	22.4	7.62	8.85	1.0	83	20	Clear, no odor
8/18/2012	1100	6.13	50	1.0	22.4	7.60	8.82	0.8	31	10	Clear, no odor
8/18/2012	1105	6.08	55	1.0	22.4	7.58	8.79	0.7	23	4	Clear, no odor
8/18/2012	1110	6.09	60	1.0	22.4	7.57	8.81	0.8	21	0	Clear, no odor
8/18/2012	1115	6.11	65	1.0	22.5	7.58	8.78	0.9	22	-2	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Prior to connecting the Horiba, the well was pumped and surged for 30 minutes and approximately 15 gallons were removed.

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW29	Date: 8/18/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	LaMotte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	7.21	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny -
	(B) Total Well Depth (ft BTOC):	15.14	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	7.93	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.27	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/18/2012	1240	12.19	15.0	0.5	27.24	7.57	4.19	2.59	18.2	-102	Clear, slight odor
8/18/2012	1245	12.32	17.5	0.5	26.54	7.43	4.20	2.27	176	-110	Clear, slight odor
8/18/2012	1250	12.68	20.0	0.5	26.40	7.34	4.20	3.70	35.7	-117	Clear, slight odor
8/18/2012	1255	13.33	22.5	0.5	26.25	7.29	4.22	3.59	34.9	-122	Clear, slight odor
8/18/2012	1300	12.65	25.0	0.5	26.77	7.29	4.21	2.43	55.4	-123	Clear, slight odor
8/18/2012	1305	12.72	27.5	0.5	26.44	7.25	4.16	2.10	51.4	-127	Clear, slight odor
8/18/2012	1310	12.55	30.0	0.5	26.63	7.23	4.14	2.07	23.9	-130	Clear, slight odor
8/18/2012	1315	12.61	32.5	0.5	26.59	7.22	4.14	1.89	22.6	-132	Clear, slight odor
8/18/2012	1320	12.43	35.0	0.5	26.63	7.21	4.10	4.33	21.1	-134	Clear, slight odor
8/18/2012	1325	12.38	37.5	0.5	26.67	7.19	4.12	3.92	18.3	-137	Clear, slight odor
8/18/2012	1330	12.24	40.0	0.5	26.60	7.18	4.10	3.46	17.5	-140	Clear, slight odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Prior to connecting the Horiba, the well was pumped and surged for 30 minutes and approximately 15 gallons were removed.

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION			
Site:	SS-18	Location ID:	SS18-MW29
Project Name:	Supplemental ACM	Project No./Phase:	11-0020
Date:	8/18/2012	Recorded By:	Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/18/2012	1335	12.14	42.5	0.5	26.65	7.17	4.12	3.40	18.3	-141	Clear, slight odor
8/18/2012	1340	11.68	45.0	0.5	26.76	7.17	4.10	3.38	19.7	-143	Clear, slight odor

MONITORING WELL DEVELOPMENT FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW30	Date: 8/18/2012
	Project Name:	Supplemental ACM	Project No./Phase:	11-0020	Recorded By: D. Berry
EQUIPMENT	Pump Type/ID#:	S.S. Mini Monsson	Water Quality Meter/ID#:	Horiba U-52	PID Type/ID#:
	Water Level Indicator Type/ID#:	Keck	Other Equipment/ID#:	LaMotte 2020 turbidity meter	Decon Method: DI Water and Liquinox
	Tubing Type/Diameter (in):	3/8" Poly	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.61	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny -
	(B) Total Well Depth (ft BTOC):	15.34	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm):
	(C) Water Column Thickness (ft) (B-A):	8.73	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm):
	(D) Well Volume (gal) (C x E):	1.40	Screen Info: Type: PVC-prepack	Size: 0.010	Well Opening PID (ppm):

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (gal)	Pumping Rate (galpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
8/18/2012	1435	11.21	10	0.5	29.06	7.22	24.0	4.24	82.00	29	Clear, no odor
8/18/2012	1445	11.38	15	0.5	28.25	7.21	24.3	3.91	63.00	30	Clear, no odor
8/18/2012	1455	11.48	20	0.5	27.73	7.20	23.9	3.40	297.00	-22	Clear, no odor
8/18/2012	1505	12.14	25	0.5	28.38	7.17	24.5	3.33	7.43	35	Clear, no odor
8/18/2012	1515	12.14	30	0.5	28.35	7.17	24.7	3.13	5.84	35	Clear, no odor
8/18/2012	1525	11.96	35	0.5	28.15	7.16	24.7	2.88	4.52	22	Clear, no odor
8/18/2012	1535	12.10	40	0.5	28.15	7.16	24.7	2.73	2.34	27	Clear, no odor
8/18/2012	1545	11.96	45	0.5	27.97	7.16	24.7	2.60	1.78	15	Clear, no odor
DEVELOPMENT CRITERIA											
+/- 10% unless otherwise noted					+/- 10 %	+/- 0.1	+/- 10 %	+/- 10 %	+/- 5 NUTs	NA	

COMMENTS: Prior to connecting the Horiba, the well was pumped and surged for 30 minutes and approximately 15 gallons were removed.

APPENDIX E

SUPPLEMENTAL ACM MONITORING WELL SAMPLE COLLECTION FORMS

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW02	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	7.54	Casing: Type PVC	Diam. (in) 1.0	Weather: Cloudy - Cool
	(B) Total Well Depth (ft BTOC):	14.03	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	6.49	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.259	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	0752	7.54	0	250	22.36	7.48	4.25	5.53	41.3	188	Clear, No odor
9/13/2012	0756	12.95	1000	250	22.66	7.45	4.04	3.10	31.7	181	Clear, No odor
9/13/2012	0758	--	1500	250	--	--	--	--	--	--	Dry at 0758

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0845					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW02					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW03	Date: 9/14/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.36	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	13.80	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.44	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.34	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/14/2012	0815	6.12	1288	250	24.46	7.08	21.4	1.25	16.2	236	
9/14/2012	0820	6.19	2576	250	24.81	7.27	20.6	0.98	4.70	245	
9/14/2012	0825	6.23	3864	250	24.87	7.30	20.9	0.94	2.88	253	
9/14/2012	0830	6.27	5152	250	24.88	7.30	21.0	0.91	1.99	256	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0840					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW03					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW04	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.12	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.00	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.88	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.32	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	1458	--	1250	500	--	--	--	--	--	--	Well dry at 1500

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0930 (9/14/2012) and 0820 (9/17/2012)					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW04					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW05	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.90	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny
	(B) Total Well Depth (ft BTOC):	13.64	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.74	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.398	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	0758	4.90	0	500	23.92	7.16	3.07	6.20	11.7	196	Clear, No Odor
9/12/2012	0809	5.02	5500	500	25.79	7.04	3.10	5.03	2.14	172	Clear, No Odor
9/12/2012	0820	5.02	11000	500	26.28	6.98	3.07	5.04	1.30	169	Clear, No Odor
9/12/2012	0831	5.02	16500	500	26.44	6.87	3.09	4.70	1.18	166	Clear, No Odor
9/12/2012	0842	5.02	22000	500	26.47	6.82	3.09	4.05	2.00	163	Clear, No Odor
9/12/2012	0853	5.02	27500	500	26.59	6.78	3.10	3.93	1.36	159	Clear, No Odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0930					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW05					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION					
	Site:	SS-18	Location ID:	SS18-MW05	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/12/2012	0904	5.02	33000	500	26.65	6.76	3.10	3.68	1.23	156	Clear, No Odor

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW06	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	7.61	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny near 90 F
	(B) Total Well Depth (ft BTOC):	14.69	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.08	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.13	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	1200	7.61	0	500	26.35	6.49	4.09	3.41	37.5	171	Clear, No odor
9/12/2012	1209	7.85	4500	500	26.63	6.54	3.95	1.90	5.33	170	Clear, No odor
9/12/2012	1218	7.86	9000	500	26.90	6.55	3.97	1.95	2.96	167	Clear, No odor
9/12/2012	1227	7.86	13500	500	26.95	6.54	3.98	2.22	2.04	165	Clear, No odor
9/12/2012	1236	7.86	18000	500	27.04	6.54	3.99	2.28	1.67	166	Clear, No odor
9/12/2012	1245	7.86	22500	500	27.06	6.54	4.00	2.35	1.67	168	Clear, No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1400					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW06 / SS18-MW06-MS / SS18-MW06-MSD					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW07	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.47	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.72	(E) Casing Volume Multiplier (gal/lin ft):	0.02	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.25	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.64	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	1515	4.77	6215	500	27.96	7.15	3.74	0.17	9.79	-358	Clear, organic odor
9/10/2012	1528	4.75	12430	500	27.77	7.09	3.75	0.03	11.60	-372	
9/10/2012	1541	4.76	18645	500	27.53	7.08	3.76	0.03	12.60	-375	
9/10/2012	1554	4.76	24860	500	27.50	7.00	3.78	0.03	10.01	-370	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1600					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW07					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	Stabilization Criteria				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW08	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.24	Casing: Type PVC	Diam. (in) 2.0	Weather: Sunny
	(B) Total Well Depth (ft BTOC):	15.16	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.92	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.59	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	1355	5.24	0	500	27.26	6.34	27.4	3.52	8.18	97	Clear, No odor
9/10/2012	1407	5.45	6000	500	26.61	6.35	26.3	1.50	4.39	88	Clear, No odor
9/10/2012	1419	5.45	12000	500	26.68	6.30	25.9	1.41	1.63	89	Clear, No odor
9/10/2012	1431	5.48	18000	500	26.73	6.24	25.8	1.61	1.11	89	Clear, No odor
9/10/2012	1443	5.48	24000	500	26.57	6.19	25.3	1.29	1.25	88	Clear, No odor
9/10/2012	1455	5.48	30000	500	26.63	6.26	25.1	1.23	0.83	88	Clear, No odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1530					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW08 / SS18-MW08-A					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW09	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.36	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.33	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.97	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.36	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	0740	12.00	1360	500	23.40	7.38	6.03	1.01	11.0	-25	Cloudy, No odor
9/11/2012	0746	14.28	2720	250	22.50	7.47	8.25	1.85	13.9	3	
9/11/2012	0810	13.63	4080	250	22.40	7.45	7.63	1.53	8.82	9	
											Ran well dry. Very slow recharge
											approx. 10 min/ft

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0830					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW09					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW10	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.76	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.31	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.55	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.34	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	1015	6.91	1296	250	23.19	7.54	5.75	1.16	10.20	9	Clear, No odor
9/11/2012	1018	7.72	2592	250	23.64	7.52	4.72	0.77	8.79	11	
9/11/2012	1021	8.25	3888	250	23.7	7.58	4.56	0.80	6.38	19	
9/11/2012	1024	8.69	5184	250	23.85	7.55	4.51	0.81	4.91	20	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1040					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW10					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	Stabilization Criteria				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW11	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.70	Casing: Type PVC	Diam. (in) 1.0	Weather: Cloudy-light rain
	(B) Total Well Depth (ft BTOC):	14.53	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.83	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.38	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	0935	5.70	0	500	25.43	6.33	4.50	2.40	7.14	124	Clear, No odor
9/11/2012	0938	8.99	1500	500	26.21	6.34	3.80	1.48	6.19	122	Clear, No odor
9/11/2012	0941	10.70	3000	500	25.81	6.38	4.25	1.05	4.48	116	Clear, No odor
9/11/2012	0944	11.91	4500	500	25.31	6.40	4.68	0.87	4.01	116	Clear, No odor
9/11/2012	0947	12.91	6000	500	24.88	6.43	5.00	0.81	4.56	114	Clear, No odor
9/11/2012	0950	13.81	7500	500	24.58	6.46	5.17	0.82	8.35	112	Vell Dry at 0951- wait for recharge to sampl

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1030					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW11					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW12	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.88	Casing: Type PVC	Diam. (in) 1.0	Weather: Cloudy
	(B) Total Well Depth (ft BTOC):	14.53	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.65	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.35	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	0744	5.88	0	500	24.76	7.12	3.68	1.78	4.38	101	Clear, No Odor
9/11/2012	0747	6.49	1500	500	24.83	7.11	3.61	1.29	2.07	101	Clear, No Odor
9/11/2012	0750	6.53	3000	500	24.81	7.09	3.58	0.98	2.44	99	Clear, No Odor
9/11/2012	0753	6.58	4500	500	24.79	7.07	3.57	0.94	2.18	98	Clear, No Odor
9/11/2012	0756	6.59	6000	500	24.76	7.05	3.57	0.88	1.41	97	Clear, No Odor
9/11/2012	0759	6.59	7500	500	24.74	7.04	3.56	0.84	1.27	95	Clear, No Odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0830					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW12					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION											
	Site:	SS-18			Location ID:		SS18-MW12			Date:	9/11/2012
	Project Name:	SACM			Project No./Phase:		11-0020			Recorded By:	Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/11/2012	0802	6.59	9000	500	24.73	7.02	3.56	0.81	1.36	93	Clear, No Odor
9/11/2012	0805	6.59	10500	500	24.72	7.01	3.56	0.79	1.36	92	Clear, No Odor
9/11/2012	0808	6.59	12000	500	24.73	7.01	3.56	0.79	1.35	91	Clear, No Odor

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW13	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.89	Casing: Type PVC	Diam. (in) 1.0	Weather: Partly Cloudy-Hot
	(B) Total Well Depth (ft BTOC):	14.53	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.64	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.35	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	1500	5.89	0	500	32.21	6.59	6.84	3.62	33.2	123	Clear, No odor
9/11/2012	1503	7.72	1500	500	27.38	6.73	5.44	1.23	27.9	120	Clear, No odor
9/11/2012	1506	9.13	3000	500	27.18	6.82	4.77	1.38	16.2	119	Clear, No odor
9/11/2012	1509	10.49	4500	500	17.06	7.16	4.68	1.12	18.9	115	Clear, No odor
9/11/2012	1512	11.74	6000	500	26.71	7.19	4.71	0.91	12.7	114	Clear, No odor
9/11/2012	1515	12.75	7500	500	26.25	7.26	4.93	0.89	10.99	112	Clear, No odor

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

1320 (9/12/12) and 1015 (9/14/2012)

Sample Identification

SS18-MW13

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs
	Cond	+/- 10%	ORP	NA

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
2	1 L	Amber	None	N	8270C	SVOC
3	40 ml	VOAs	HCl	N	8015	TPH-GRO
2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
1	500 mL	Plastic	HNO3	N	6010/7470	Metals
1	250 mL	Plastic	None	N	160.1	TDS
2	1 L	Amber	None	N	8082	PCBs

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION				
	Site: SS-18	Location ID: SS18-MW13	Date: 9/11/2012	
	Project Name: SACM	Project No./Phase: 11-0020	Recorded By: Z. Beck	

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/11/2012	1518	13.82	9000	500	26.08	7.34	5.31	0.79	11.3	109	
											Dry at 1519. Not recharging enough to
											sample. Come back later
											Collect VOC, GRO, TDS, Diss TAL, and
											total TAL on 9/12/12 at 1320
											Collect SVOC, DRO/ORO, and PCBs on
											9/14/2012 at 1015

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW14	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.73	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.45	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.72	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.31	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	1115	6.73	0	500	26.45	7.39	3.63	2.21	14.0	75	Clear, no odor
9/10/2012	1118	10.42	1250	500	26.78	7.29	3.66	1.93	6.18	53	Clear, no odor
9/10/2012	1121	11.84	2500	500	26.26	7.35	3.63	1.65	4.28	65	Clear, no odor
9/10/2012	1124	12.48	3750	500	26.04	7.40	3.62	1.46	4.49	68	Clear, no odor
9/10/2012	1127	13.32	5000	500	25.68	7.44	3.61	1.34	4.98	61	Clear, no odor
9/10/2012	1129	--	6000	500	--	--	--	--	--	--	Dry at 1129. Wait for recharge then sample

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1200					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW14					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW15	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.25	Casing: Type	PVC Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	13.67	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.42	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.38	Screen Info: Type:	PVC Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	1320	8.91	1440	500	26.71	7.55	7.27	0.71	22	80	Clear
9/10/2012	1323	10.26	2880	500	25.93	7.57	7.47	0.53	12	66	
9/10/2012	1327	10.95	4320	500	25.56	7.60	7.54	0.48	9.53	61	
9/10/2012	1331	11.4	5760	500	25.50	7.63	7.61	0.41	10.40	58	
9/10/2012	1334	11.79	7200	500	25.48	7.64	7.65	0.39	7.39	58	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1340					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW15					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW16	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.38	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.79	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.41	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.38	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	0747	6.30	1440	250	23.19	7.07	16.0	0.05	29.0	159	Clear, no odor
9/13/2012	0753	6.35	2880	250	22.99	7.07	16.1	0.03	15.6	161	Slightly cloudy
9/13/2012	0759	6.37	4320	250	22.99	7.07	16.4	0.03	16.6	154	Slightly cloudy
9/13/2012	0805	6.42	5760	250	22.93	7.07	16.5	0.03	12.4	132	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0810					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW16					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW17	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.88	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.83	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	7.95	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.32	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	1011	6.88	0	500	22.84	6.49	8.34	1.98	93.20	167	Slightly Turbid
9/12/2012	1014	7.56	1500	500	22.59	6.50	5.66	1.25	27.80	161	Clear
9/12/2012	1017	7.56	3000	500	22.51	6.53	5.03	1.05	11.30	157	Clear
9/12/2012	1020	7.56	4500	500	22.52	6.55	4.89	0.89	5.48	153	Clear
9/12/2012	1023	7.56	6000	500	22.53	6.56	4.88	0.82	4.87	150	Clear
9/12/2012	1026	7.56	7500	500	22.53	6.56	4.91	0.83	4.16	148	Clear

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1100					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW17					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW18	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.05	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.50	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.45	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.38	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	1310	7.61	1440	250	25.61	7.00	5.10	0.10	17.9	232	Cloudy, no odor
9/13/2012	1316	8.50	2880	250	25.67	6.91	5.14	0.09	14.5	252	
9/13/2012	1322	9.40	4320	250	25.37	6.93	5.19	0.09	10.3	241	
9/13/2012	1328	10.05	5760	250	25.17	6.97	5.17	0.10	10.1	242	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

1335

Sample Identification

SS18-MW18

Conversions	Stabilization Criteria			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs
	Cond	+/- 10%	ORP	NA

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
2	1 L	Amber	None	N	8270C	SVOC
3	40 ml	VOAs	HCl	N	8015	TPH-GRO
2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
1	500 mL	Plastic	HNO3	N	6010/7470	Metals
1	250 mL	Plastic	None	N	160.1	TDS
2	1 L	Amber	None	N	8082	PCBs

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW19	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.75	Casing: Type PVC	Diam. (in) 1.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.33	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.58	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.34	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	0915	9.70	1288	250	24.18	6.92	5.68	0.10	12.70	168	
9/13/2012	0920	11.79	2576	250	23.59	6.95	6.83	0.12	9.21	175	
9/13/2012	0925	13.45	3864	250	23.18	6.97	6.62	0.11	8.71	178	Pumped dry- slow recharge
											Sample VOC, GRO, TDS, total TAL on 9/13
											Sample SVOC, DRO/ORO, PCB, and
											dissolved TAL metals on 9/14

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1445 (9/13/2012) / 0725 (9/14/2012)					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW19					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW20	Date: 9/14/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.89	Casing: Type PVC	Diam. (in) 1.0	Weather: Sunny 60 - 70 F
	(B) Total Well Depth (ft BTOC):	14.76	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.87	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.39	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/14/2012	0750	4.89	0	250	22.97	7.20	18.2	8.05	13.5	151	Clear
9/14/2012	0756	8.49	1500	250	24.49	6.95	9.53	7.65	8.32	149	Clear
9/14/2012	0802	10.64	3000	250	24.45	6.95	8.86	7.27	9.27	149	Dry at 0815
9/14/2012	0808	12.78	4500	250	23.69	7.02	14.4	6.95	8.79	147	Sample VOC, total TAL, and TDS on 9/14
9/14/2012	0814	14.33	6000	250	23.08	7.12	19.3	6.68	6.24	144	Sample SVOC, diss TAL, DRO/ORO
9/14/2012	0815	--	6250	250	--	--	--	--	--	--	and PCB on 9/17

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0900 (9/14/2012) and 0820 (9/17/2012)					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW20					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW21	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.91	Casing: Type PVC	Diam. (in) 1.0	Weather: Cloudy
	(B) Total Well Depth (ft BTOC):	14.44	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.53	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.34	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	1418	5.91	0	250	22.99	7.10	5.75	7.86	76.30	-10	
9/13/2012	1424	9.29	1500	250	23.04	6.76	5.13	6.44	12.70	-133	
9/13/2012	1430	10.29	3000	250	22.3	7.01	5.62	6.12	7.76	-109	
9/13/2012	1436	10.55	4500	250	22.07	7.04	5.67	5.87	5.84	-92	
9/13/2012	1442	10.71	6000	250	21.97	7.08	5.70	5.58	4.47	-73	
9/13/2012	1448	10.71	7500	250	21.87	7.09	5.75	5.21	2.72	-47	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1530					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW21					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION				
	Site: SS-18	Location ID: SS18-MW21	Date: 9/13/2012	
	Project Name: SACM	Project No./Phase: 11-0020	Recorded By: Z. Beck	

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/13/2012	1454	10.77	9000	250	21.92	7.08	5.73	5.03	5.57	-35	

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW22	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.84	Casing: Type PVC	Diam. (in) 1.0	Weather: Sunny - 90 F
	(B) Total Well Depth (ft BTOC):	13.78	(E) Casing Volume Multiplier (gal/lin ft):	0.04	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.94	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	0.36	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	1245	4.84	0	500	26.56	6.44	6.68	2.26	19.8	136	Clear
9/11/2012	1248	7.28	1500	500	26.48	6.48	6.38	1.22	35.2	133	Clear
9/11/2012	1251	8.37	3000	500	25.86	6.50	6.29	0.92	17.6	128	Clear
9/11/2012	1254	8.68	4500	500	25.67	6.51	6.26	0.86	9.00	127	Clear
9/11/2012	1257	8.83	6000	500	25.58	6.51	6.24	0.83	5.43	125	Clear
9/11/2012	1300	8.93	7500	500	25.49	6.52	6.22	0.72	3.61	122	Clear

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1030					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW22 / SS18-MW22-A					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION											
	Site:	SS-18			Location ID:		SS18-MW22			Date:	9/11/2012
	Project Name:	SACM			Project No./Phase:		11-0020			Recorded By:	Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/11/2012	1303	9.11	9000	500	25.54	6.52	6.22	0.67	2.77	119	Clear
9/11/2012	1306	9.11	10500	500	25.51	6.52	6.21	0.66	2.32	118	Clear

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW23	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.70	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.38	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.68	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.71	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	0900	4.95	6481	500	25.85	7.47	9.71	0.65	2.43	-1	Clear
9/10/2012	0915	4.97	12962	500	26.61	7.38	8.36	0.27	0.85	25	
9/10/2012	0930	5.00	19443	500	27.02	7.34	8.35	0.37	0.83	41	
9/10/2012	0945	5.03	25924	500	27.36	7.34	8.18	0.36	0.54	52	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0950					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW23					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW24	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.46	Casing: Type PVC	Diam. (in) 2.0	Weather: Partly Cloudy- Warm
	(B) Total Well Depth (ft BTOC):	15.39	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.93	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.59	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	0852	5.46	0	500	23.07	7.86	3.78	1.21	4.55	33	Clear, no odor
9/10/2012	0904	5.54	6000	500	24.09	7.87	2.70	1.32	5.21	31	Clear, no odor
9/10/2012	0916	5.54	12000	500	24.52	8.01	2.58	1.34	1.80	31	Clear, no odor
9/10/2012	0928	5.56	18000	500	24.67	8.09	2.60	0.73	1.06	27	Clear, no odor
9/10/2012	0940	5.55	24000	500	24.74	8.10	2.65	0.64	1.26	27	Clear, no odor
9/10/2012	0952	5.55	30000	500	24.81	8.09	2.69	0.74	1.33	26	Clear, no odor

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1000					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW24					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW25	Date: 9/10/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.91	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.02	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.11	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.62	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/10/2012	1055	5.51	6130	500	26.92	7.24	3.47	0.18	10.9	-14	Clear, odorless
9/10/2012	1108	5.54	12260	500	26.75	7.18	3.53	0.22	5.32	6	
9/10/2012	1121	5.56	18390	500	26.69	7.23	3.57	0.19	3.50	12	
9/10/2012	1134	5.56	24520	500	26.69	7.15	3.6	0.18	2.57	26	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1140					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW25					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	Stabilization Criteria				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW26	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	3.33	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.29	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.96	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.91	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	1220	3.54	7253	500	26.95	7.11	3.59	0.21	49.30	-86	Cloudy, no odor
9/11/2012	1235	3.55	14506	500	27.67	7.10	3.44	0.07	16.60	-78	
9/11/2012	1250	3.55	21759	500	27.75	7.06	3.43	0.06	11.10	-76	
9/11/2012	1305	3.55	29012	500	27.76	7.08	3.43	0.07	8.38	-79	
9/11/2012	1320	3.56	36265	500	27.78	7.06	3.44	0.06	7.83	-79	

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

1330

Sample Identification

SS18-MW26 / SS18-MW26-MS / SS18-MW26-MSD

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs
	Cond	+/- 10%	ORP	NA

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
2	1 L	Amber	None	N	8270C	SVOC
3	40 ml	VOAs	HCl	N	8015	TPH-GRO
2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
1	500 mL	Plastic	HNO3	N	6010/7470	Metals
1	250 mL	Plastic	None	N	160.1	TDS
2	1 L	Amber	None	N	8082	PCBs

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW27	Date: 9/11/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.44	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	14.94	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	9.50	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.52	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/11/2012	1510	5.90	5761	500	25.06	6.95	3.83	0.59	26.30	-44	
9/11/2012	1522	5.91	11522	500	24.92	6.87	3.86	0.42	9.28	-91	
9/11/2012	1534	5.90	17283	500	24.77	6.86	3.89	0.40	5.21	-71	
9/11/2012	1546	5.92	23044	500	24.71	6.86	3.90	0.41	5.19	-66	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1550					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW27					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	Stabilization Criteria				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW28	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	4.02	Casing: Type PVC	Diam. (in) 2.0	Weather: Heavy Rain- Cloudy/Breezy
	(B) Total Well Depth (ft BTOC):	15.43	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	11.41	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.83	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	1053	4.02	0	500	20.49	7.49	5.84	6.05	25.0	178	Clear, no odor
9/13/2012	1105	4.82	7000	500	21.40	7.41	8.69	0.97	11.3	153	Clear, no odor
9/13/2012	1117	4.82	14000	500	20.93	7.42	8.24	1.45	3.77	132	Clear, no odor
9/13/2012	1129	5.01	21000	500	20.70	7.43	8.29	2.18	13.50	121	Well vault filling with rainwater
9/13/2012	1141	4.02	28000	500	20.48	7.49	7.02	0.88	4.76	77	Heavy rain filling well with rainwater
9/13/2012	1153	4.02	35000	500	19.29	8.88	2.35	3.75	8000+	79	Heavy rain filling well with rainwater

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1300					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW28					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION					
	Site:	SS-18	Location ID:	SS18-MW28	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: Z. Beck

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mL)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential	Remarks (odor, clarity, etc.)
9/13/2012	1205	4.02	42000	500	20.54	8.54	3.17	7.09	8000+	85	Heavy rain filling well with rainwater
9/13/2012	1217	4.02	49000	500	20.74	8.08	4.06	4.84	1043	86	Bailing well vault of water
9/13/2012	1229	4.02	56000	500	21.47	7.70	6.49	2.59	167	88	Bailing well vault of water
9/13/2012	1241	4.02	63000	500	21.77	7.53	7.04	0.96	16.8	83	Bailing well vault of water
9/13/2012	1253	4.02	70000	500	21.98	7.53	7.08	0.92	14.9	79	
9/13/2012	1300	4.02	77000	500	22.20	7.52	7.11	0.88	12.7	78	

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW29	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	7.06	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.30	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.24	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.32	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	1110	7.77	5002	500	26.34	6.53	4.28	0.48	19.70	-101	Clear, mild organic odor
9/13/2012	1120	7.84	10004	500	26.77	6.62	4.24	0.05	7.05	-112	
9/13/2012	1130	7.86	15006	500	26.83	6.58	4,25	0.09	3.31	-138	
9/13/2012	1140	7.87	20008	500	26.88	6.61	4.20	0.06	2.98	-170	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	Analyte	Dilution	Result	Units	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1145					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW29					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	Stabilization Criteria				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	SS-18	Location ID:	SS18-MW30	Date: 9/13/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.47	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	15.30	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	8.83	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.41	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/13/2012	1002	6.91	5343	500	24.09	7.01	34.2	0.11	12.0	177	Clear, no odor
9/13/2012	1013	7.00	10686	500	24.77	7.02	26.00	0.00	6.65	103	
9/13/2012	1024	7.00	16029	500	24.83	7.04	26.6	0.00	3.31	85	
9/13/2012	1035	7.05	21372	500	24.88	7.08	26.6	0.00	2.24	90	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1040					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
SS18-MW30					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	OT-45	Location ID:	S51-MW1	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.81	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	17.65	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.84	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.73	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	0800	7.13	6573	500	22.68	7.22	3.52	0.30	14.2	3	Milky, no odor
9/12/2012	0813	7.14	13146	500	22.77	7.24	3.50	0.01	7.36	6	
9/12/2012	0826	7.13	19719	500	22.82	7.20	3.49	0.00	3.62	25	
9/12/2012	0839	7.16	26292	500	22.85	7.21	3.49	0.00	5.58	10	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
0845					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
S51-MW1					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	OT-45	Location ID:	S51-MW3	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.56	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	17.78	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	12.22	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.96	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	1315	5.75	7428	500	24.82	7.13	16.6	0.02	3.97	-90	
9/12/2012	1330	5.75	14856	500	24.83	7.13	16.8	0.00	2.30	-92	
9/12/2012	1345	5.76	22284	500	24.80	7.10	17.0	0.00	4.37	-56	

Colorimeter Results					No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1400					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
S51-MW3 / S51-MW3-A					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	OT-45	Location ID:	S51-MW4	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	YSI 556	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	6.86	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	17.80	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	10.94	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.75	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	0820	7.00	1000	500	24.62	7.03	6.37	1.91	396		
9/12/2012	0830	7.10	6000	500	25.80	6.94	6.45	1.36	46.2		
9/12/2012	0840	7.38	11000	500	25.88	6.95	6.90	1.23	6.90		
9/12/2012	0850	7.25	16000	500	25.87	6.94	6.89	1.20	3.40		
9/12/2012	0900	7.25	21000	500	25.86	6.95	6.90	1.21	2.90		

Colorimeter Results

Time	Analyte	Dilution	Result	Units

Sample Time

0910

Sample Identification

S51-MW4

Conversions	**Stabilization Criteria**			
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs
	Cond	+/- 10%	ORP	NA

No. Containers/Volume/Type			Preserv.	Filter (Y/N)	Method	Parameter(s)
3	40 ml	VOAs	HCl	N	8260B	VOCs
2	1 L	Amber	None	N	8270C	SVOC
3	40 ml	VOAs	HCl	N	8015	TPH-GRO
2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
1	500 mL	Plastic	HNO3	N	6010/7470	Metals
1	250 mL	Plastic	None	N	160.1	TDS
2	1 L	Amber	None	N	8082	PCBs

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	OT-45	Location ID:	S51-MW5	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: T. Lucero
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	YSI 556	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.78	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	17.80	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	12.02	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.92	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO											
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	0945	6.25	1000	500	22.55	6.83	5.36	6.94	700		
9/12/2012	0955	6.10	6000	500	23.42	6.80	6.91	7.04	90		
9/12/2012	1005	6.10	11000	500	23.56	6.80	6.89	7.07	22		
9/12/2012	1015	6.10	16000	500	23.33	6.80	6.84	10.62	4.4		
9/12/2012	1025	5.93	21000	500	23.31	6.80	6.82	10.56	3.9		
9/12/2012	1035	5.93	26000	500	23.30	6.80	6.83	10.58	3.7		

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1045					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
S51-MW5					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

MONITORING WELL SAMPLE COLLECTION FORM

NATIONVIEW

LOCATION	Site:	OT-45	Location ID:	S51-MW7	Date: 9/12/2012
	Project Name:	SACM	Project No./Phase:	11-0020	Recorded By: B. Parrish
EQUIPMENT	Pump Type/ID#:	Peristaltic-Geopump	Water Quality Meter/ID#:	Horriba U52	PID Type/ID#: NA
	Water Level Indicator Type/ID#:	Heron-Dipper T	Other Equipment/ID#:	LaMotte 2020	Decon Method: Liquinox/DI Rinse
	Tubing Type/Diameter (in):	0.25	Other Equipment/ID#:		PPE Level: D C B A
WELL INFO	(A) Initial Depth to Water (ft BTOC):	5.98	Casing: Type PVC	Diam. (in) 2.0	Weather:
	(B) Total Well Depth (ft BTOC):	18.35	(E) Casing Volume Multiplier (gal/lin ft):	0.16	Background PID (ppm): NA
	(C) Water Column Thickness (ft) (B-A):	12.37	Screen Length (lin ft):	10.0	Breathing Zone PID (ppm): NA
	(D) Well Volume (gal) (C x E):	1.98	Screen Info: Type: PVC	Size: 0.010	Well Opening PID (ppm): NA

CASING INFO										
Riseer/Well Casing Inner Diameter (in)	0.50	1.00	1.50	2.00	3.00	4.00	5.0	6.0	8.0	10
(D) Casing Volume Multiplier(gal/lin ft)	0.02	0.04	0.10	0.16	0.38	0.65	1.02	1.47	2.61	4.08

DATE (mmddyy)	TIME (24 Hr)	Water Level (BTOC)	Volume Removed (mLl)	Pumping Rate (mLpm)	Temp (C)	pH	Cond. (mS/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Remarks (odor, clarity, etc.)
9/12/2012	0935	7.77	7504	500	15.31	7.00	7.38	0.00	15.3	28	Clear, no odor
9/12/2012	0950	7.85	15008	500	25.46	6.97	7.25	0.00	9.84	33	
9/12/2012	1005	7.89	22512	500	25.49	7.03	7.14	0.00	6.33	57	
9/12/2012	1020	7.93	30016	500	25.52	6.99	7.14	0.00	5.95	80	

Colorimeter Results					**No. Containers/Volume/Type**			**Preserv.**	**Filter (Y/N)**	**Method**	**Parameter(s)**
Time	**Analyte**	**Dilution**	**Result**	**Units**	3	40 ml	VOAs	HCl	N	8260B	VOCs
					2	1 L	Amber	None	N	8270C	SVOC
Sample Time					3	40 ml	VOAs	HCl	N	8015	TPH-GRO
1025					2	1 L	Amber	H2SO4	N	8015	TPH-DRO/ORO
Sample Identification					1	500 mL	Plastic	HNO3	Y	6010/7470	Metals
S51-MW7					1	500 mL	Plastic	HNO3	N	6010/7470	Metals
Conversions	**Stabilization Criteria**				1	250 mL	Plastic	None	N	160.1	TDS
1 L = 0.26 gals	Temp	+/- 10%	DO	+/- 10%	2	1 L	Amber	None	N	8082	PCBs
1 gal = 3.79 L	pH	+/- 0.1	Turb	+/- 5 NTUs							
	Cond	+/- 10%	ORP	NA							

APPENDIX F

SUPPLEMENTAL ACM ANALYTICAL DATA PACKAGES

(PROVIDED ON ENCLOSED CD)

Southeast ACCUTEST LABORATORIES

08/29/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F95903

Sampling Date: 08/14/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **104**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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10.2: Prep QC MP23550: Hg 100

Sample Summary

Nation View

Job No: F95903

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F95903-1	08/14/12	11:20	BP	08/15/12	SO	Soil	SS-18-DP24-10
F95903-2	08/14/12	10:20	BP	08/15/12	SO	Soil	SS-18-DP40-8
F95903-3	08/14/12	09:30	BP	08/15/12	SO	Soil	SS-18-DP39-8
F95903-4	08/14/12	00:00	BP	08/15/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F95903

Site: Holloman AFB; SS18 **Report Date** 8/29/2012 11:34:21 AM

3 Samples and 1 Trip Blank were collected on 08/14/2012 and were received at Accutest on 08/15/2012 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of F95903. 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: SO **Batch ID:** VY204

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95849-6MS, F95849-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Methyl methacrylate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,1,2-Trichloroethane are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43249

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) F95903-1MS, F95903-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,6-Dinitrotoluene, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Acenaphthene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic Acid, bis(2-Chloroethoxy)methane, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, Phenanthrene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Nitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Acenaphthene, Acenaphthylene, Benzo(k)fluoranthene, Benzoic Acid, bis(2-Chloroethoxy)methane, Dibenzo(a,h)anthracene, Fluorene, Hexachlorocyclopentadiene, Hexachloroethane, Nitrobenzene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: SO **Batch ID:** OP43287

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3054

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95905-3MS, F95905-3MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43139

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) F95901-4MS, F95901-4MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43219

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) F95702-2MS, F95702-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23467

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) F95903-1DUP, F95903-1MS, F95903-1MSD, F95903-1PS, F95903-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Cadmium, Iron, Sodium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Antimony, Cadmium, Sodium are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium 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, Arsenic, Copper, Lead, Selenium, Thallium are outside control limits for sample MP23467-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Cobalt, Copper, Lead, Nickel, Selenium, Thallium, Vanadium, Zinc are outside control limits for sample MP23467-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23467-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23467-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23467

F95903-1 for Aluminum: Sample dilution required due to sample matrix.
F95903-1 for Antimony: Sample dilution required due to sample matrix.
F95903-1 for Arsenic: Sample dilution required due to sample matrix.
F95903-1 for Barium: Sample dilution required due to sample matrix.
F95903-1 for Beryllium: Sample dilution required due to sample matrix.
F95903-1 for Cadmium: Sample dilution required due to sample matrix.
F95903-1 for Calcium: Sample dilution required due to sample matrix.
F95903-1 for Chromium: Sample dilution required due to sample matrix.
F95903-1 for Cobalt: Sample dilution required due to sample matrix.
F95903-1 for Copper: Sample dilution required due to sample matrix.
F95903-1 for Iron: Sample dilution required due to sample matrix.
F95903-1 for Lead: Sample dilution required due to sample matrix.
F95903-1 for Magnesium: Sample dilution required due to sample matrix.
F95903-1 for Manganese: Sample dilution required due to sample matrix.
F95903-1 for Nickel: Sample dilution required due to sample matrix.
F95903-1 for Potassium: Sample dilution required due to sample matrix.
F95903-1 for Selenium: Sample dilution required due to sample matrix.
F95903-1 for Silver: Sample dilution required due to sample matrix.
F95903-1 for Sodium: Sample dilution required due to sample matrix.
F95903-1 for Thallium: Sample dilution required due to sample matrix.
F95903-1 for Vanadium: Sample dilution required due to sample matrix.
F95903-1 for Zinc: Sample dilution required due to sample matrix.
F95903-2 for Aluminum: Sample dilution required due to sample matrix.
F95903-2 for Antimony: Sample dilution required due to sample matrix.
F95903-2 for Arsenic: Sample dilution required due to sample matrix.
F95903-2 for Barium: Sample dilution required due to sample matrix.
F95903-2 for Beryllium: Sample dilution required due to sample matrix.
F95903-2 for Cadmium: Sample dilution required due to sample matrix.
F95903-2 for Calcium: Sample dilution required due to sample matrix.
F95903-2 for Chromium: Sample dilution required due to sample matrix.
F95903-2 for Cobalt: Sample dilution required due to sample matrix.
F95903-2 for Copper: Sample dilution required due to sample matrix.
F95903-2 for Iron: Sample dilution required due to sample matrix.
F95903-2 for Lead: Sample dilution required due to sample matrix.
F95903-2 for Magnesium: Sample dilution required due to sample matrix.
F95903-2 for Manganese: Sample dilution required due to sample matrix.
F95903-2 for Nickel: Sample dilution required due to sample matrix.
F95903-2 for Potassium: Sample dilution required due to sample matrix.
F95903-2 for Selenium: Sample dilution required due to sample matrix.
F95903-2 for Sodium: Sample dilution required due to sample matrix.
F95903-2 for Silver: Sample dilution required due to sample matrix.
F95903-2 for Thallium: Sample dilution required due to sample matrix.
F95903-2 for Vanadium: Sample dilution required due to sample matrix.
F95903-2 for Zinc: Sample dilution required due to sample matrix.
F95903-3 for Aluminum: Sample dilution required due to sample matrix.
F95903-3 for Antimony: Sample dilution required due to sample matrix.
F95903-3 for Arsenic: Sample dilution required due to sample matrix.
F95903-3 for Barium: Sample dilution required due to sample matrix.
F95903-3 for Beryllium: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23467

F95903-3 for Cadmium: Sample dilution required due to sample matrix.
F95903-3 for Calcium: Sample dilution required due to sample matrix.
F95903-3 for Chromium: Sample dilution required due to sample matrix.
F95903-3 for Cobalt: Sample dilution required due to sample matrix.
F95903-3 for Copper: Sample dilution required due to sample matrix.
F95903-3 for Iron: Sample dilution required due to sample matrix.
F95903-3 for Lead: Sample dilution required due to sample matrix.
F95903-3 for Magnesium: Sample dilution required due to sample matrix.
F95903-3 for Manganese: Sample dilution required due to sample matrix.
F95903-3 for Nickel: Sample dilution required due to sample matrix.
F95903-3 for Potassium: Sample dilution required due to sample matrix.
F95903-3 for Selenium: Sample dilution required due to sample matrix.
F95903-3 for Silver: Sample dilution required due to sample matrix.
F95903-3 for Sodium: Sample dilution required due to sample matrix.
F95903-3 for Thallium: Sample dilution required due to sample matrix.
F95903-3 for Vanadium: Sample dilution required due to sample matrix.
F95903-3 for Zinc: Sample dilution required due to sample matrix.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23550

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) F96003-3DUP, F96003-3MS, F96003-3MSD, F96003-3SDL were used as the QC samples for metals.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23550-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51412

Sample(s) F95903-1DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN51453

Sample(s) F96184-3DUP was used as the QC samples for Solids, Percent.

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: August 29, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F95903
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/14/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95903-1	**SS-18-DP24-10**					
Aluminum [a]		3240	94	11	mg/kg	SW846 6010C
Antimony [a]		1.4 J	9.4	0.94	mg/kg	SW846 6010C
Arsenic [a]		2.9 J	4.7	0.94	mg/kg	SW846 6010C
Barium [a]		34.6 J	94	4.7	mg/kg	SW846 6010C
Calcium [a]		193000	2400	47	mg/kg	SW846 6010C
Chromium [a]		4.5 J	4.7	0.47	mg/kg	SW846 6010C
Cobalt [a]		1.1 J	24	0.47	mg/kg	SW846 6010C
Copper [a]		2.5 J	12	0.94	mg/kg	SW846 6010C
Iron [a]		3590	140	16	mg/kg	SW846 6010C
Lead [a]		2.2 J	9.4	0.47	mg/kg	SW846 6010C
Magnesium [a]		2480	2400	47	mg/kg	SW846 6010C
Manganese [a]		87.5	7.1	0.47	mg/kg	SW846 6010C
Nickel [a]		3.0 J	19	0.47	mg/kg	SW846 6010C
Potassium [a]		854 J	4700	240	mg/kg	SW846 6010C
Vanadium [a]		10.9 J	24	0.47	mg/kg	SW846 6010C
Zinc [a]		12.2	9.4	2.4	mg/kg	SW846 6010C
F95903-2	**SS-18-DP40-8**					
Aluminum [a]		2790	110	14	mg/kg	SW846 6010C
Arsenic [a]		1.3 J	5.6	1.1	mg/kg	SW846 6010C
Barium [a]		23.2 J	110	5.6	mg/kg	SW846 6010C
Calcium [a]		171000	2800	56	mg/kg	SW846 6010C
Chromium [a]		2.8 J	5.6	0.56	mg/kg	SW846 6010C
Cobalt [a]		1.2 J	28	0.56	mg/kg	SW846 6010C
Copper [a]		1.1 J	14	1.1	mg/kg	SW846 6010C
Iron [a]		2510	170	19	mg/kg	SW846 6010C
Lead [a]		0.86 J	11	0.56	mg/kg	SW846 6010C
Magnesium [a]		1560 J	2800	56	mg/kg	SW846 6010C
Manganese [a]		72.2	8.5	0.56	mg/kg	SW846 6010C
Nickel [a]		2.1 J	23	0.56	mg/kg	SW846 6010C
Potassium [a]		684 J	5600	280	mg/kg	SW846 6010C
Vanadium [a]		5.8 J	28	0.56	mg/kg	SW846 6010C
Zinc [a]		7.1 J	11	2.8	mg/kg	SW846 6010C
F95903-3	**SS-18-DP39-8**					
TPH (> C22-C36)		8.26 J	11	4.3	mg/kg	SW846 8015C
Aluminum [a]		2370	120	15	mg/kg	SW846 6010C
Arsenic [a]		1.3 J	6.2	1.2	mg/kg	SW846 6010C
Barium [a]		25.0 J	120	6.2	mg/kg	SW846 6010C
Calcium [a]		151000	3100	62	mg/kg	SW846 6010C
Chromium [a]		2.5 J	6.2	0.62	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95903
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/14/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt [a]		0.67 J	31	0.62	mg/kg	SW846 6010C
Iron [a]		2050	190	20	mg/kg	SW846 6010C
Magnesium [a]		1760 J	3100	62	mg/kg	SW846 6010C
Manganese [a]		26.2	9.3	0.62	mg/kg	SW846 6010C
Nickel [a]		1.6 J	25	0.62	mg/kg	SW846 6010C
Potassium [a]		642 J	6200	310	mg/kg	SW846 6010C
Vanadium [a]		5.3 J	31	0.62	mg/kg	SW846 6010C
Zinc [a]		6.8 J	12	3.1	mg/kg	SW846 6010C

F95903-4 **TRIP BLANK**

No hits reported in this sample.

(a) Sample dilution required due to sample matrix.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4778.D	1	08/15/12	EP	n/a	n/a	VY204
Run #2							

	Initial Weight
Run #1	6.73 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49	20	ug/kg	
75-05-8	Acetonitrile	ND	49	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	4.9	ug/kg	
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	4.9	1.5	ug/kg	
108-86-1	Bromobenzene	ND	4.9	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	1.1	ug/kg	
75-25-2	Bromoform	ND	4.9	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.98	ug/kg	
75-00-3	Chloroethane	ND	4.9	2.0	ug/kg	
67-66-3	Chloroform	ND	4.9	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	4.9	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	9.8	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.98	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.98	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.98	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	1.4	ug/kg	

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.9	0.98	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.98	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.98	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	4.9	ug/kg	
76-13-1	Freon 113	ND	4.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	2.0	ug/kg	
110-54-3	Hexane	ND	4.9	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.4	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.0	ug/kg	
74-83-9	Methyl bromide	ND	4.9	2.0	ug/kg	
74-87-3	Methyl chloride	ND	4.9	2.0	ug/kg	
74-88-4	Methyl iodide	ND	9.8	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	4.9	1.8	ug/kg	
74-95-3	Methylene bromide	ND	4.9	1.5	ug/kg	
75-09-2	Methylene chloride	ND	9.8	4.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	2.0	ug/kg	
91-20-3	Naphthalene	ND	4.9	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	4.9	ug/kg	
107-12-0	Propionitrile	ND	49	16	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	1.4	ug/kg	
100-42-5	Styrene	ND	4.9	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.2	ug/kg	

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	0.98	ug/kg	
108-88-3	Toluene	ND	4.9	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	9.8	2.2	ug/kg	
95-47-6	o-Xylene	ND	4.9	0.98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		80-121%
2037-26-5	Toluene-D8	92%		71-130%
460-00-4	4-Bromofluorobenzene	108%		59-148%
17060-07-0	1,2-Dichloroethane-D4	114%		77-123%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025194.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	380	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	27	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	87	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	31	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	43	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	43	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	87	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	87	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	87	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	95	ug/kg	
67-72-1	Hexachloroethane	ND	220	43	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	43	ug/kg	
99-09-2	3-Nitroaniline	ND	220	43	ug/kg	
100-01-6	4-Nitroaniline	ND	220	43	ug/kg	
91-20-3	Naphthalene	ND	220	35	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	76%		41-100%
118-79-6	2,4,6-Tribromophenol	80%		42-108%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070573.D	1	08/16/12	MM	n/a	n/a	GQR3054
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.07 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.1	3.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109599.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.7	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.7	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		44-126%
2051-24-3	Decachlorobiphenyl	88%		39-157%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	75.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31453.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.4	mg/kg	
	TPH (> C22-C36)	ND	11	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		49-108%

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:	SS-18-DP24-10		
Lab Sample ID:	F95903-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
		Percent Solids:	75.6
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3240	94	11	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Antimony [a]	1.4 J	9.4	0.94	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	2.9 J	4.7	0.94	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Barium [a]	34.6 J	94	4.7	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Beryllium [a]	0.47 U	2.4	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cadmium [a]	0.47 U	1.9	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Calcium [a]	193000	2400	47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Chromium [a]	4.5 J	4.7	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cobalt [a]	1.1 J	24	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.5 J	12	0.94	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Iron [a]	3590	140	16	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.2 J	9.4	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Magnesium [a]	2480	2400	47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Manganese [a]	87.5	7.1	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.0097 U	0.097	0.0097	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [2]	SW846 7471B [4]
Nickel [a]	3.0 J	19	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Potassium [a]	854 J	4700	240	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Selenium [a]	1.9 U	9.4	1.9	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Silver [a]	0.47 U	4.7	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Sodium [a]	520 U	4700	520	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	1.2 U	4.7	1.2	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Vanadium [a]	10.9 J	24	0.47	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Zinc [a]	12.2	9.4	2.4	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA10061
(2) Instrument QC Batch: MA10090
(3) Prep QC Batch: MP23467
(4) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4779.D	1	08/15/12	EP	n/a	n/a	VY204
Run #2							

	Initial Weight
Run #1	6.31 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	22	ug/kg	
75-05-8	Acetonitrile	ND	54	20	ug/kg	
107-02-8	Acrolein	ND	27	12	ug/kg	
107-13-1	Acrylonitrile	ND	27	12	ug/kg	
107-05-1	Allyl chloride	ND	27	5.4	ug/kg	
71-43-2	Benzene	ND	5.4	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.4	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.2	ug/kg	
75-25-2	Bromoform	ND	5.4	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.4	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	27	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.5	ug/kg	

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	27	5.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.4	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.4	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.4	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	27	5.4	ug/kg	
76-13-1	Freon 113	ND	5.4	1.9	ug/kg	
591-78-6	2-Hexanone	ND	27	5.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.2	ug/kg	
110-54-3	Hexane	ND	5.4	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	6.0	ug/kg	
126-98-7	Methacrylonitrile	ND	27	10	ug/kg	
74-83-9	Methyl bromide	ND	5.4	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.4	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.4	1.6	ug/kg	
75-09-2	Methylene chloride	ND	11	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	6.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	27	5.4	ug/kg	
107-12-0	Propionitrile	ND	54	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.5	ug/kg	
100-42-5	Styrene	ND	5.4	2.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.3	ug/kg	

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.1	ug/kg	
108-88-3	Toluene	ND	5.4	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	27	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	27	15	ug/kg	
	m,p-Xylene	ND	11	2.4	ug/kg	
95-47-6	o-Xylene	ND	5.4	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	111%		59-148%
17060-07-0	1,2-Dichloroethane-D4	110%		77-123%

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059186.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	400	ug/kg	
95-57-8	2-Chlorophenol	ND	230	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	29	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	460	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	460	91	ug/kg	
95-48-7	2-Methylphenol	ND	230	23	ug/kg	
	3&4-Methylphenol	ND	230	33	ug/kg	
88-75-5	2-Nitrophenol	ND	230	23	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	230	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	23	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	23	ug/kg	
83-32-9	Acenaphthene	ND	230	23	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	23	ug/kg	
92-87-5	Benzidine	ND	2300	460	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	23	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	230	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	230	46	ug/kg	
100-51-6	Benzyl Alcohol	ND	230	46	ug/kg	
91-58-7	2-Chloronaphthalene	ND	230	46	ug/kg	
106-47-8	4-Chloroaniline	ND	230	23	ug/kg	
218-01-9	Chrysene	ND	230	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	230	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	230	23	ug/kg	

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	230	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	46	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	46	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	46	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	230	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	230	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	460	46	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	23	ug/kg	
132-64-9	Dibenzofuran	ND	230	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	460	91	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	230	46	ug/kg	
84-66-2	Diethyl phthalate	ND	460	91	ug/kg	
131-11-3	Dimethyl phthalate	ND	230	46	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	460	91	ug/kg	
206-44-0	Fluoranthene	ND	230	23	ug/kg	
86-73-7	Fluorene	ND	230	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	230	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	46	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	230	100	ug/kg	
67-72-1	Hexachloroethane	ND	230	46	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	23	ug/kg	
78-59-1	Isophorone	ND	230	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	23	ug/kg	
88-74-4	2-Nitroaniline	ND	230	46	ug/kg	
99-09-2	3-Nitroaniline	ND	230	46	ug/kg	
100-01-6	4-Nitroaniline	ND	230	46	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	230	23	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	230	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	23	ug/kg	
85-01-8	Phenanthrene	ND	230	23	ug/kg	
129-00-0	Pyrene	ND	230	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		40-102%
4165-62-2	Phenol-d5	54%		41-100%
118-79-6	2,4,6-Tribromophenol	64%		42-108%

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		40-105%
321-60-8	2-Fluorobiphenyl	58%		43-107%
1718-51-0	Terphenyl-d14	67%		45-119%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070574.D	1	08/16/12	MM	n/a	n/a	GQR3054
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.94 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.7	3.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109600.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	23	12	ug/kg	
11141-16-5	Aroclor 1232	ND	23	12	ug/kg	
53469-21-9	Aroclor 1242	ND	23	9.3	ug/kg	
12672-29-6	Aroclor 1248	ND	23	9.3	ug/kg	
11097-69-1	Aroclor 1254	ND	23	9.3	ug/kg	
11096-82-5	Aroclor 1260	ND	23	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		44-126%
2051-24-3	Decachlorobiphenyl	95%		39-157%

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	72.7
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31454.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	ND	11	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-108%

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:	SS-18-DP40-8		
Lab Sample ID:	F95903-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
		Percent Solids:	72.7
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	2790	110	14	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Antimony [a]	1.1 U	11	1.1	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.3 J	5.6	1.1	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Barium [a]	23.2 J	110	5.6	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Beryllium [a]	0.56 U	2.8	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cadmium [a]	0.56 U	2.3	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Calcium [a]	171000	2800	56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Chromium [a]	2.8 J	5.6	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cobalt [a]	1.2 J	28	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	1.1 J	14	1.1	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Iron [a]	2510	170	19	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	0.86 J	11	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Magnesium [a]	1560 J	2800	56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Manganese [a]	72.2	8.5	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [2]	SW846 7471B [4]
Nickel [a]	2.1 J	23	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Potassium [a]	684 J	5600	280	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Selenium [a]	2.3 U	11	2.3	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Silver [a]	0.56 U	5.6	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Sodium [a]	620 U	5600	620	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	1.5 U	5.6	1.5	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Vanadium [a]	5.8 J	28	0.56	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Zinc [a]	7.1 J	11	2.8	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA10061
(2) Instrument QC Batch: MA10090
(3) Prep QC Batch: MP23467
(4) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4780.D	1	08/15/12	EP	n/a	n/a	VY204
Run #2							

	Initial Weight
Run #1	6.34 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	20	ug/kg	
75-05-8	Acetonitrile	ND	51	18	ug/kg	
107-02-8	Acrolein	ND	26	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.1	ug/kg	
71-43-2	Benzene	ND	5.1	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.1	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.1	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	1.1	ug/kg	
75-25-2	Bromoform	ND	5.1	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.0	ug/kg	
67-66-3	Chloroform	ND	5.1	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.1	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.1	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.1	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.1	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.1	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.1	1.4	ug/kg	

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.1	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.1	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.1	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.1	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.1	ug/kg	
76-13-1	Freon 113	ND	5.1	1.7	ug/kg	
591-78-6	2-Hexanone	ND	26	5.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/kg	
110-54-3	Hexane	ND	5.1	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.6	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.4	ug/kg	
74-83-9	Methyl bromide	ND	5.1	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.1	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.1	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.1	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.1	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.1	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.1	ug/kg	
107-12-0	Propionitrile	ND	51	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	1.4	ug/kg	
100-42-5	Styrene	ND	5.1	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.2	ug/kg	

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	1.0	ug/kg	
108-88-3	Toluene	ND	5.1	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	26	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.1	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	116%		71-130%
460-00-4	4-Bromofluorobenzene	109%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025198.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	380	ug/kg	
95-57-8	2-Chlorophenol	ND	210	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	27	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	86	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	31	ug/kg	
88-75-5	2-Nitrophenol	ND	210	21	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	21	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
120-12-7	Anthracene	ND	210	21	ug/kg	
92-87-5	Benzidine	ND	2100	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	210	43	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	43	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	21	ug/kg	
132-64-9	Dibenzofuran	ND	210	21	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	86	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	86	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	86	ug/kg	
206-44-0	Fluoranthene	ND	210	21	ug/kg	
86-73-7	Fluorene	ND	210	21	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	94	ug/kg	
67-72-1	Hexachloroethane	ND	210	43	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	21	ug/kg	
78-59-1	Isophorone	ND	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	21	ug/kg	
88-74-4	2-Nitroaniline	ND	210	43	ug/kg	
99-09-2	3-Nitroaniline	ND	210	43	ug/kg	
100-01-6	4-Nitroaniline	ND	210	43	ug/kg	
91-20-3	Naphthalene	ND	210	34	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	21	ug/kg	
85-01-8	Phenanthrene	ND	210	21	ug/kg	
129-00-0	Pyrene	ND	210	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	72%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070575.D	1	08/16/12	MM	n/a	n/a	GQR3054
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.89 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.0	3.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109601.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.6	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.6	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.6	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.6	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		44-126%
2051-24-3	Decachlorobiphenyl	95%		39-157%

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:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	77.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31507.D	1	08/28/12	SJL	08/16/12	OP43139	GYY1162
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.3	mg/kg	
	TPH (> C22-C36)	8.26	11	4.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-108%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS-18-DP39-8		
Lab Sample ID:	F95903-3	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/15/12
		Percent Solids:	77.2
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	2370	120	15	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Antimony [a]	1.2 U	12	1.2	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.3 J	6.2	1.2	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Barium [a]	25.0 J	120	6.2	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Beryllium [a]	0.62 U	3.1	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cadmium [a]	0.62 U	2.5	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Calcium [a]	151000	3100	62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Chromium [a]	2.5 J	6.2	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cobalt [a]	0.67 J	31	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	1.2 U	15	1.2	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Iron [a]	2050	190	20	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	0.62 U	12	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Magnesium [a]	1760 J	3100	62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Manganese [a]	26.2	9.3	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.0098 U	0.098	0.0098	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [2]	SW846 7471B [4]
Nickel [a]	1.6 J	25	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Potassium [a]	642 J	6200	310	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Selenium [a]	2.5 U	12	2.5	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Silver [a]	0.62 U	6.2	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Sodium [a]	680 U	6200	680	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	1.6 U	6.2	1.6	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Vanadium [a]	5.3 J	31	0.62	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]
Zinc [a]	6.8 J	12	3.1	mg/kg	10	08/16/12	08/17/12	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA10061
(2) Instrument QC Batch: MA10090
(3) Prep QC Batch: MP23467
(4) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F95903-4	**Date Sampled:**	08/14/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4781.D	1	08/15/12	EP	n/a	n/a	VY204
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95903-4	**Date Sampled:**	08/14/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95903-4	**Date Sampled:**	08/14/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-121%
2037-26-5	Toluene-D8	106%		71-130%
460-00-4	4-Bromofluorobenzene	105%		59-148%
17060-07-0	1,2-Dichloroethane-D4	106%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F95903

Page: 1 of 2

Project No: 11-0020

COC Number(1): 08142012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
	SS-18-DP24-10		14-08-2012	1120	-	N		SO	2	X											
1	SS18-DP24-10		14-08-2012	1120	-	N		SO	2					X							
	SS18-DP24-10		14-08-2012	1120	-	N		SO	1		X	X			X						
	SS18-DP24-10		14-08-2012	1120		N		SO	1				X			X					
	SS18-DP40-8		14-08-2012	1020		N		SO	2	X											
2	SS18-DP40-8		14-08-2012	1020	-	N		SO	2					X							
	SS18-DP40-8		14-08-2012	1020	-	N		SO	1		X	X			X						
	SS18-DP40-8		14-08-2012	1020	-	N		SO	1				X			X					
	SS18-DP39-8		14-08-2012	0930	-	N		SO	2	X											
3	SS18-DP39-8		14-08-2012	0930	-	N		SO	2					X							
	SS18-DP39-8		14-08-2012	0930	-	N		SO	1		X	X			X						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrill	08/14/12	1300	1. FX		08:30
2. FX			2. J. Crane (Alse)	8-15-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7987 3975 2471

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

1.4c

B-8

5.1

5

F95903: Chain of Custody

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NATIONVIEW

F95903

Page: 2 of 2

Project No: 11-0020

COC Number(1): 08142012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
(3) SS18-DP39-8		14-08-2012	0930	-	N		SO	1				X			X					
(4) Trip Blank				-			WQ												2-059-001	
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	08/14/12	1300	1. FX		09:30
2. FX			2. J. Corpe (AISE)	8-15-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7987 3975 2471

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

1.4C

5.1

5

F95903: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F 95 903 CLIENT: NATION VIEW PROJECT: SS-18

DATE/TIME RECEIVED: 8-15-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 3975 2471

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
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 3+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 1.0
- [ ] CORRECTED TEMPS: 1.4

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 LC 8-15-12 REVIEWER SIGNATURE/DATE [signature] 08/15/12

NF 12/10

receipt confirmation 122910.xls

5.1

5

F95903: Chain of Custody

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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

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-MB	Y4769.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-MB	Y4769.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-MB	Y4769.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-121%
2037-26-5	Toluene-D8	104%	71-130%
460-00-4	4-Bromofluorobenzene	110%	59-148%
17060-07-0	1,2-Dichloroethane-D4	104%	77-123%

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-BS	Y4768.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	288	115	61-144
75-05-8	Acetonitrile	500	516	103	59-139
107-02-8	Acrolein	250	332	133	27-156
107-13-1	Acrylonitrile	250	286	114	55-144
107-05-1	Allyl chloride	50	58.6	117	41-152
71-43-2	Benzene	50	55.5	111	78-130
100-44-7	Benzyl Chloride	50	52.7	105	74-130
108-86-1	Bromobenzene	50	53.8	108	78-123
74-97-5	Bromochloromethane	50	48.6	97	72-122
75-27-4	Bromodichloromethane	50	53.3	107	73-122
75-25-2	Bromoform	50	50.1	100	70-139
104-51-8	n-Butylbenzene	50	55.7	111	80-138
135-98-8	sec-Butylbenzene	50	58.6	117	82-132
98-06-6	tert-Butylbenzene	50	57.6	115	79-130
108-90-7	Chlorobenzene	50	58.0	116	83-122
75-00-3	Chloroethane	50	59.1	118	61-153
67-66-3	Chloroform	50	52.7	105	79-129
544-10-5	1-Chlorohexane	50	50.4	101	85-137
95-49-8	o-Chlorotoluene	50	57.2	114	77-123
106-43-4	p-Chlorotoluene	50	58.4	117	78-129
110-75-8	2-Chloroethyl vinyl ether	250	242	97	52-142
75-15-0	Carbon disulfide	50	55.8	112	61-142
56-23-5	Carbon tetrachloride	50	53.3	107	79-135
75-34-3	1,1-Dichloroethane	50	54.1	108	77-132
75-35-4	1,1-Dichloroethylene	50	59.8	120	66-132
563-58-6	1,1-Dichloropropene	50	54.5	109	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	54.1	108	67-129
106-93-4	1,2-Dibromoethane	50	52.7	105	77-126
107-06-2	1,2-Dichloroethane	50	54.0	108	78-129
78-87-5	1,2-Dichloropropane	50	54.3	109	74-127
142-28-9	1,3-Dichloropropane	50	51.5	103	78-118
594-20-7	2,2-Dichloropropane	50	54.1	108	80-137
124-48-1	Dibromochloromethane	50	52.5	105	78-117
75-71-8	Dichlorodifluoromethane	50	61.9	124	35-162
156-59-2	cis-1,2-Dichloroethylene	50	52.6	105	74-123
10061-01-5	cis-1,3-Dichloropropene	50	49.7	99	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-BS	Y4768.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	57.6	115	71-126
541-73-1	m-Dichlorobenzene	50	57.7	115	82-126
95-50-1	o-Dichlorobenzene	50	57.6	115	83-123
106-46-7	p-Dichlorobenzene	50	54.4	109	84-124
156-60-5	trans-1,2-Dichloroethylene	50	54.0	108	77-129
10061-02-6	trans-1,3-Dichloropropene	50	56.2	112	87-131
100-41-4	Ethylbenzene	50	53.9	108	82-124
97-63-2	Ethyl methacrylate	50	54.1	108	78-118
76-13-1	Freon 113	50	56.0	112	62-147
591-78-6	2-Hexanone	250	278	111	67-130
87-68-3	Hexachlorobutadiene	50	54.4	109	77-150
110-54-3	Hexane	50	53.1	106	65-147
98-82-8	Isopropylbenzene	50	58.8	118	82-133
99-87-6	p-Isopropyltoluene	50	56.8	114	82-132
108-10-1	4-Methyl-2-pentanone	250	284	114	69-125
126-98-7	Methacrylonitrile	500	586	117	70-138
74-83-9	Methyl bromide	50	52.6	105	60-146
74-87-3	Methyl chloride	50	54.4	109	58-163
74-88-4	Methyl iodide	50	55.3	111	66-128
80-62-6	Methyl methacrylate	50	58.8	118	73-125
74-95-3	Methylene bromide	50	52.7	105	75-128
75-09-2	Methylene chloride	50	54.8	110	62-140
78-93-3	Methyl ethyl ketone	250	283	113	66-134
1634-04-4	Methyl Tert Butyl Ether	50	48.7	97	70-131
91-20-3	Naphthalene	50	50.4	101	59-143
76-01-7	Pentachloroethane	50	63.9	128	64-156
107-12-0	Propionitrile	500	550	110	73-133
103-65-1	n-Propylbenzene	50	59.0	118	78-129
100-42-5	Styrene	50	53.2	106	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	53.0	106	81-121
71-55-6	1,1,1-Trichloroethane	50	52.7	105	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	52.7	105	70-128
79-00-5	1,1,2-Trichloroethane	50	54.1	108	76-118
87-61-6	1,2,3-Trichlorobenzene	50	50.0	100	78-136
96-18-4	1,2,3-Trichloropropane	50	52.1	104	74-125
120-82-1	1,2,4-Trichlorobenzene	50	51.9	104	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY204-BS	Y4768.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	53.1	106	77-129
108-67-8	1,3,5-Trimethylbenzene	50	52.2	104	79-129
127-18-4	Tetrachloroethylene	50	54.3	109	79-132
108-88-3	Toluene	50	54.2	108	80-123
79-01-6	Trichloroethylene	50	55.3	111	78-132
75-69-4	Trichlorofluoromethane	50	56.7	113	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	52.3	105	74-138
75-01-4	Vinyl chloride	50	56.8	114	60-145
108-05-4	Vinyl Acetate	250	271	108	25-164
	m,p-Xylene	100	114	114	82-128
95-47-6	o-Xylene	50	55.2	110	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	105%	59-148%
17060-07-0	1,2-Dichloroethane-D4	100%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95849-6MS	Y4772.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6MSD	Y4773.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4771.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4777.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	F95849-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	17000 U [a]		42600	44600	105	47500	112	6	61-144/29
75-05-8	Acetonitrile	17000 U [a]		85200	88800	104	92000	108	4	59-139/30
107-02-8	Acrolein	8500 U [a]		42600	53300	125	65200	153	20	27-156/39
107-13-1	Acrylonitrile	8500 U [a]		42600	46000	108	45200	106	2	55-144/24
107-05-1	Allyl chloride	8500 U [a]		8520	8650	102	8690	102	0	41-152/24
71-43-2	Benzene	732 [a]	I	8520	9400	102	9150	99	3	78-130/25
100-44-7	Benzyl Chloride	1700 U [a]		8520	8340	98	8830	104	6	74-130/28
108-86-1	Bromobenzene	1700 U [a]		8520	8630	101	9070	107	5	78-123/30
74-97-5	Bromochloromethane	1700 U [a]		8520	7990	94	8190	96	2	72-122/23
75-27-4	Bromodichloromethane	1700 U [a]		8520	8540	100	8250	97	3	73-122/25
75-25-2	Bromoform	1700 U [a]		8520	8240	97	8550	100	4	70-139/26
104-51-8	n-Butylbenzene	1630 [a]	I	8520	10300	102	10100	99	2	80-138/31
135-98-8	sec-Butylbenzene	596 [a]	I	8520	9770	108	9680	107	1	82-132/29
98-06-6	tert-Butylbenzene	1700 U [a]		8520	8840	104	9230	108	4	79-130/29
108-90-7	Chlorobenzene	1700 U [a]		8520	8950	105	9400	110	5	83-122/23
75-00-3	Chloroethane	1700 U [a]		8520	8310	98	8080	95	3	61-153/31
67-66-3	Chloroform	1700 U [a]		8520	8180	96	8050	95	2	79-129/27
544-10-5	1-Chlorohexane	1700 U [a]		8520	7720	91	7720	91	0	85-137/29
95-49-8	o-Chlorotoluene	1700 U [a]		8520	10200	120	10300	121	1	77-123/31
106-43-4	p-Chlorotoluene	1700 U [a]		8520	9070	107	9420	111	4	78-129/29
110-75-8	2-Chloroethyl vinyl ether	8500 U [a]		42600	46900	110	46000	108	2	52-142/25
75-15-0	Carbon disulfide	1700 U [a]		8520	8410	99	8030	94	5	61-142/27
56-23-5	Carbon tetrachloride	1700 U [a]		8520	7860	92	7620	89	3	79-135/29
75-34-3	1,1-Dichloroethane	1700 U [a]		8520	8300	97	8230	97	1	77-132/26
75-35-4	1,1-Dichloroethylene	1700 U [a]		8520	9420	111	8860	104	6	66-132/27
563-58-6	1,1-Dichloropropene	1700 U [a]		8520	8390	99	7960	93	5	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	1700 U [a]		8520	9840	116	9910	116	1	67-129/29
106-93-4	1,2-Dibromoethane	1700 U [a]		8520	8770	103	8960	105	2	77-126/24
107-06-2	1,2-Dichloroethane	1700 U [a]		8520	8790	103	8790	103	0	78-129/24
78-87-5	1,2-Dichloropropane	1700 U [a]		8520	8670	102	8690	102	0	74-127/27
142-28-9	1,3-Dichloropropane	1700 U [a]		8520	8620	101	8770	103	2	78-118/26
594-20-7	2,2-Dichloropropane	1700 U [a]		8520	7730	91	7790	91	1	80-137/28
124-48-1	Dibromochloromethane	1700 U [a]		8520	8460	99	8850	104	5	78-117/27
75-71-8	Dichlorodifluoromethane	1700 U [a]		8520	9780	115	8480	100	14	35-162/30
156-59-2	cis-1,2-Dichloroethylene	1700 U [a]		8520	8240	97	8310	98	1	74-123/26
10061-01-5	cis-1,3-Dichloropropene	1700 U [a]		8520	8190	96	8050	95	2	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95849-6MS	Y4772.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6MSD	Y4773.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4771.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4777.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	F95849-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	8500 U [a]		8520	9560	112	10600	124	10	71-126/28
541-73-1	m-Dichlorobenzene	1700 U [a]		8520	9140	107	9140	107	0	82-126/29
95-50-1	o-Dichlorobenzene	1700 U [a]		8520	9210	108	9570	112	4	83-123/28
106-46-7	p-Dichlorobenzene	1700 U [a]		8520	8500	100	8620	101	1	84-124/28
156-60-5	trans-1,2-Dichloroethylene	1700 U [a]		8520	8410	99	7940	93	6	77-129/27
10061-02-6	trans-1,3-Dichloropropene	1700 U [a]		8520	8840	104	9230	108	4	87-131/27
100-41-4	Ethylbenzene	10000		8520	19100	107	19200	108	1	82-124/25
97-63-2	Ethyl methacrylate	8500 U [a]		8520	8920	105	9190	108	3	78-118/30
76-13-1	Freon 113	1700 U [a]		8520	8540	100	7540	89	12	62-147/29
591-78-6	2-Hexanone	8500 U [a]		42600	43400	102	46500	109	7	67-130/29
87-68-3	Hexachlorobutadiene	1700 U [a]		8520	8700	102	8220	97	6	77-150/36
110-54-3	Hexane	673 [a]	I	8520	8830	96	8020	86	10	65-147/27
98-82-8	Isopropylbenzene	1320 [a]	I	8520	10400	107	10500	108	1	82-133/27
99-87-6	p-Isopropyltoluene	1700 U [a]		8520	9060	106	9180	108	1	82-132/29
108-10-1	4-Methyl-2-pentanone	8500 U [a]		42600	45900	108	48100	113	5	69-125/24
126-98-7	Methacrylonitrile	8500 U [a]		85200	93500	110	91700	108	2	70-138/22
74-83-9	Methyl bromide	1700 U [a]		8520	7950	93	7580	89	5	60-146/31
74-87-3	Methyl chloride	1700 U [a]		8520	8280	97	7920	93	4	58-163/26
74-88-4	Methyl iodide	3400 U [a]		8520	8750	103	8530	100	3	66-128/27
80-62-6	Methyl methacrylate	1700 U [a]		8520	10700	126*	9690	114	10	73-125/24
74-95-3	Methylene bromide	1700 U [a]		8520	8750	103	8460	99	3	75-128/26
75-09-2	Methylene chloride	3400 U [a]		8520	8400	99	8390	99	0	62-140/25
78-93-3	Methyl ethyl ketone	8500 U [a]		42600	48700	114	47900	113	2	66-134/23
1634-04-4	Methyl Tert Butyl Ether	1700 U [a]		8520	8120	95	8220	97	1	70-131/25
91-20-3	Naphthalene	8530 [a]		8520	18200	114	17900	110	2	59-143/31
76-01-7	Pentachloroethane	8500 U [a]		8520	10100	119	10400	122	3	64-156/37
107-12-0	Propionitrile	17000 U [a]		85200	89900	106	92900	109	3	73-133/23
103-65-1	n-Propylbenzene	5790 [a]		8520	14800	106	15100	109	2	78-129/29
100-42-5	Styrene	1700 U [a]		8520	8680	102	8920	105	3	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	1700 U [a]		8520	8390	99	8900	105	6	81-121/25
71-55-6	1,1,1-Trichloroethane	1700 U [a]		8520	7810	92	7570	89	3	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	1700 U [a]		8520	8600	101	9230	108	7	70-128/30
79-00-5	1,1,2-Trichloroethane	1700 U [a]		8520	9630	113	10200	120*	6	76-118/28
87-61-6	1,2,3-Trichlorobenzene	1700 U [a]		8520	8920	105	8750	103	2	78-136/34
96-18-4	1,2,3-Trichloropropane	1700 U [a]		8520	9180	108	9020	106	2	74-125/30
120-82-1	1,2,4-Trichlorobenzene	1700 U [a]		8520	8760	103	8780	103	0	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95849-6MS	Y4772.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6MSD	Y4773.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4771.D	1	08/15/12	EP	n/a	n/a	VY204
F95849-6	Y4777.D	1	08/15/12	EP	n/a	n/a	VY204

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95903-1, F95903-2, F95903-3, F95903-4

CAS No.	Compound	F95849-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	39300 [a]		8520	48700	110	48600	109	0	77-129/29
108-67-8	1,3,5-Trimethylbenzene	10600 [a]		8520	19100	100	18900	97	1	79-129/31
127-18-4	Tetrachloroethylene	1700 U [a]		8520	8600	101	8800	103	2	79-132/27
108-88-3	Toluene	1980 [a]		8520	10400	99	10500	100	1	80-123/26
79-01-6	Trichloroethylene	1700 U [a]		8520	8430	99	8270	97	2	78-132/28
75-69-4	Trichlorofluoromethane	1700 U [a]		8520	8560	101	7910	93	8	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	8500 U [a]		8520	8640	101	8660	102	0	74-138/30
75-01-4	Vinyl chloride	1700 U [a]		8520	8280	97	8220	97	1	60-145/29
108-05-4	Vinyl Acetate	8500 U [a]		42600	41400	97	39300	92	5	25-164/35
	m,p-Xylene	38300 [a]		17000	57600	113	58000	116	1	82-128/25
95-47-6	o-Xylene	10900 [a]		8520	20200	109	20200	109	0	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F95849-6	F95849-6	Limits
1868-53-7	Dibromofluoromethane	98%	98%	101%	100%	80-121%
2037-26-5	Toluene-D8	102%	106%	106%	105%	71-130%
460-00-4	4-Bromofluorobenzene	103%	105%	106%	108%	59-148%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	104%	103%	77-123%

(a) Result is from Run #2.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	X025193.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	X025193.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	67%	40-102%
4165-62-2	Phenol-d5	75%	41-100%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	X025193.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	83%	42-108%
4165-60-0	Nitrobenzene-d5	71%	40-105%
321-60-8	2-Fluorobiphenyl	76%	43-107%
1718-51-0	Terphenyl-d14	94%	45-119%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	T003763.D	1	08/27/12	FS	08/23/12	OP43249	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	T003763.D	1	08/27/12	FS	08/23/12	OP43249	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	67%	40-102%
4165-62-2	Phenol-d5	75%	41-100%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MB	T003763.D	1	08/27/12	FS	08/23/12	OP43249	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	91%	42-108%
4165-60-0	Nitrobenzene-d5	72%	40-105%
321-60-8	2-Fluorobiphenyl	76%	43-107%
1718-51-0	Terphenyl-d14	95%	45-119%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	40-102%
4165-62-2	Phenol-d5	65%	41-100%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	63%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-BS	X025192.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2600	78	44-116
95-57-8	2-Chlorophenol	1670	1410	85	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1440	86	59-102
120-83-2	2,4-Dichlorophenol	1670	1450	87	60-101
105-67-9	2,4-Dimethylphenol	1670	1260	76	49-89
51-28-5	2,4-Dinitrophenol	3330	2970	89	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3360	101	58-109
95-48-7	2-Methylphenol	1670	1330	80	53-94
	3&4-Methylphenol	3330	2640	79	54-95
88-75-5	2-Nitrophenol	1670	1460	88	55-96
100-02-7	4-Nitrophenol	3330	3030	91	56-106
87-86-5	Pentachlorophenol	3330	3070	92	50-115
108-95-2	Phenol	1670	1410	85	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1520	91	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1500	90	60-100
83-32-9	Acenaphthene	1670	1480	89	59-97
208-96-8	Acenaphthylene	1670	1480	89	58-98
120-12-7	Anthracene	1670	1500	90	61-104
56-55-3	Benzo(a)anthracene	1670	1570	94	60-106
50-32-8	Benzo(a)pyrene	1670	1470	88	59-102
205-99-2	Benzo(b)fluoranthene	1670	1630	98	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1610	97	56-103
207-08-9	Benzo(k)fluoranthene	1670	1630	98	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1510	91	60-104
85-68-7	Butyl benzyl phthalate	1670	1590	95	57-110
100-51-6	Benzyl Alcohol	1670	1440	86	51-102
91-58-7	2-Chloronaphthalene	1670	1430	86	57-95
106-47-8	4-Chloroaniline	1670	1340	80	19-85
218-01-9	Chrysene	1670	1570	94	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1420	85	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1380	83	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1310	79	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1480	89	60-101
95-50-1	1,2-Dichlorobenzene	1670	1370	82	47-91
541-73-1	1,3-Dichlorobenzene	1670	1340	80	45-86
106-46-7	1,4-Dichlorobenzene	1670	1350	81	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-BS	X025192.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1490	89	59-103
606-20-2	2,6-Dinitrotoluene	1670	1500	90	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1650	99	57-105
132-64-9	Dibenzofuran	1670	1500	90	58-103
84-74-2	Di-n-butyl phthalate	1670	1490	89	59-105
117-84-0	Di-n-octyl phthalate	1670	1600	96	59-117
84-66-2	Diethyl phthalate	1670	1510	91	59-106
131-11-3	Dimethyl phthalate	1670	1470	88	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1580	95	57-111
206-44-0	Fluoranthene	1670	1490	89	60-110
86-73-7	Fluorene	1670	1490	89	60-99
118-74-1	Hexachlorobenzene	1670	1520	91	58-103
87-68-3	Hexachlorobutadiene	1670	1420	85	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1530	92	36-94
67-72-1	Hexachloroethane	1670	1350	81	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1600	96	57-104
78-59-1	Isophorone	1670	1200	72	58-97
91-57-6	2-Methylnaphthalene	1670	1430	86	57-103
88-74-4	2-Nitroaniline	1670	1530	92	53-106
99-09-2	3-Nitroaniline	1670	1290	77	29-85
100-01-6	4-Nitroaniline	1670	1430	86	49-104
91-20-3	Naphthalene	1670	1360	82	54-93
98-95-3	Nitrobenzene	1670	1390	83	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1360	82	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1550	93	53-107
85-01-8	Phenanthrene	1670	1540	92	61-103
129-00-0	Pyrene	1670	1620	97	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1410	85	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	79%	40-102%
4165-62-2	Phenol-d5	83%	41-100%
118-79-6	2,4,6-Tribromophenol	89%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-BS	X025192.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	40-105%
321-60-8	2-Fluorobiphenyl	86%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2530	76	44-116
95-57-8	2-Chlorophenol	1670	1100	66	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1380	83	59-102
120-83-2	2,4-Dichlorophenol	1670	1270	76	60-101
105-67-9	2,4-Dimethylphenol	1670	1110	67	49-89
51-28-5	2,4-Dinitrophenol	3330	3110	93	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3210	96	58-109
95-48-7	2-Methylphenol	1670	1130	68	53-94
	3&4-Methylphenol	3330	2260	68	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2910	87	56-106
87-86-5	Pentachlorophenol	3330	2900	87	50-115
108-95-2	Phenol	1670	1160	70	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1240	74	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1230	74	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1450	87	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1500	90	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1420	85	56-103
207-08-9	Benzo(k)fluoranthene	1670	1480	89	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	60-104
85-68-7	Butyl benzyl phthalate	1670	1460	88	57-110
100-51-6	Benzyl Alcohol	1670	1230	74	51-102
91-58-7	2-Chloronaphthalene	1670	1170	70	57-95
106-47-8	4-Chloroaniline	1670	1270	76	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1060	64	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1060	64	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1060	64	47-91
541-73-1	1,3-Dichlorobenzene	1670	1030	62	45-86
106-46-7	1,4-Dichlorobenzene	1670	1070	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1380	83	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	57-105
132-64-9	Dibenzofuran	1670	1300	78	58-103
84-74-2	Di-n-butyl phthalate	1670	1430	86	59-105
117-84-0	Di-n-octyl phthalate	1670	1550	93	59-117
84-66-2	Diethyl phthalate	1670	1390	83	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1470	88	57-111
206-44-0	Fluoranthene	1670	1410	85	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1130	68	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1210	73	36-94
67-72-1	Hexachloroethane	1670	1060	64	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1480	89	57-104
78-59-1	Isophorone	1670	1060	64	58-97
91-57-6	2-Methylnaphthalene	1670	1230	74	57-103
88-74-4	2-Nitroaniline	1670	1340	80	53-106
99-09-2	3-Nitroaniline	1670	1270	76	29-85
100-01-6	4-Nitroaniline	1670	1410	85	49-104
91-20-3	Naphthalene	1670	1140	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1220	73	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	53-107
85-01-8	Phenanthrene	1670	1400	84	61-103
129-00-0	Pyrene	1670	1420	85	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1120	67	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MS	X025195.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
OP43249-MSD	X025196.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
F95903-1	X025194.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	F95903-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4410	1690	38*	1490	34*	13	44-116/36
95-57-8	2-Chlorophenol	ND		2200	2010	91	2010	93	0	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2200	2120	96	2100	97	1	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2200	2130	97	2130	98	0	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2200	1940	88	1920	89	1	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4410	3700	84	3670	85	1	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4410	4780	108	4590	106	4	58-109/37
95-48-7	2-Methylphenol	ND		2200	1980	90	1980	91	0	53-94/29
	3&4-Methylphenol	ND		4410	3920	89	3860	89	2	54-95/31
88-75-5	2-Nitrophenol	ND		2200	2090	95	2120	98*	1	55-96/30
100-02-7	4-Nitrophenol	ND		4410	4420	100	4370	101	1	56-106/29
87-86-5	Pentachlorophenol	ND		4410	4300	98	4190	97	3	50-115/33
108-95-2	Phenol	ND		2200	2040	93	2080	96	2	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2200	2230	101	2230	103*	0	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2200	2190	99	2190	101*	0	60-100/27
83-32-9	Acenaphthene	ND		2200	2180	99*	2180	101*	0	59-97/29
208-96-8	Acenaphthylene	ND		2200	2160	98	2190	101*	1	58-98/30
120-12-7	Anthracene	ND		2200	2230	101	2160	100	3	61-104/29
92-87-5	Benzidine	ND		2200	1290	59	1390	64	7	10-151/50
56-55-3	Benzo(a)anthracene	ND		2200	2300	104	2190	101	5	60-106/31
50-32-8	Benzo(a)pyrene	ND		2200	2200	100	2130	98	3	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2200	2410	109*	2220	102	8	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2200	2310	105*	2210	102	4	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2200	2430	110*	2460	113*	1	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2200	2210	100	2180	101	1	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2200	2310	105	2210	102	4	57-110/28
100-51-6	Benzyl Alcohol	ND		2200	2070	94	2110	97	2	51-102/34
91-58-7	2-Chloronaphthalene	ND		2200	2100	95	2130	98*	1	57-95/28
106-47-8	4-Chloroaniline	ND		2200	2060	93*	2070	95*	0	19-85/34
218-01-9	Chrysene	ND		2200	2320	105	2230	103	4	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2200	2050	93*	2020	93*	1	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2200	1960	89	1930	89	2	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2200	1990	90	1990	92	0	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2200	2180	99	2170	100	0	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2200	1960	89	1980	91	1	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2200	1930	88*	1920	89*	1	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MS	X025195.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
OP43249-MSD	X025196.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
F95903-1	X025194.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Compound	F95903-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2200	1970	89*	1940	89*	2	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2200	2220	101	2160	100	3	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2200	2210	100*	2200	101*	0	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2200	2200	100*	2150	99*	2	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2200	2320	105	2290	106*	1	57-105/29
132-64-9	Dibenzofuran	ND		2200	2180	99	2210	102	1	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2200	2220	101	2130	98	4	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2200	2360	107	2260	104	4	59-117/28
84-66-2	Diethyl phthalate	ND		2200	2240	102	2210	102	1	59-106/27
131-11-3	Dimethyl phthalate	ND		2200	2200	100	2170	100	1	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2200	2290	104	2180	101	5	57-111/29
206-44-0	Fluoranthene	ND		2200	2240	102	2150	99	4	60-110/32
86-73-7	Fluorene	ND		2200	2190	99	2190	101*	0	60-99/30
118-74-1	Hexachlorobenzene	ND		2200	2220	101	2180	101	2	58-103/27
87-68-3	Hexachlorobutadiene	ND		2200	2050	93	2030	94	1	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2200	2160	98*	2170	100*	0	36-94/41
67-72-1	Hexachloroethane	ND		2200	1940	88	1950	90*	1	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2200	2330	106*	2200	101	6	57-104/33
78-59-1	Isophorone	ND		2200	1720	78	1710	79	1	58-97/30
91-57-6	2-Methylnaphthalene	ND		2200	2050	93	2050	95	0	57-103/32
88-74-4	2-Nitroaniline	ND		2200	2250	102	2230	103	1	53-106/29
99-09-2	3-Nitroaniline	ND		2200	2040	93*	2010	93*	1	29-85/31
100-01-6	4-Nitroaniline	ND		2200	2230	101	2190	101	2	49-104/31
91-20-3	Naphthalene	ND		2200	1980	90	1990	92	1	54-93/32
98-95-3	Nitrobenzene	ND		2200	2000	91	2030	94*	1	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2200	2010	91	1990	92	1	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2200	2320	105	2220	102	4	53-107/28
85-01-8	Phenanthrene	ND		2200	2300	104*	2220	102	4	61-103/32
129-00-0	Pyrene	ND		2200	2340	106	2240	103	4	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2200	2010	91	2050	95*	2	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F95903-1	Limits
367-12-4	2-Fluorophenol	84%	88%	68%	40-102%
4165-62-2	Phenol-d5	89%	92%	76%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43249-MS	X025195.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
OP43249-MSD	X025196.D	1	08/24/12	FS	08/23/12	OP43249	SX1220
F95903-1	X025194.D	1	08/24/12	FS	08/23/12	OP43249	SX1220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-1, F95903-3

CAS No.	Surrogate Recoveries	MS	MSD	F95903-1	Limits
118-79-6	2,4,6-Tribromophenol	99%	100%	80%	42-108%
4165-60-0	Nitrobenzene-d5	88%	93%	72%	40-105%
321-60-8	2-Fluorobiphenyl	94%	97%	74%	43-107%
1718-51-0	Terphenyl-d14	106%	105%	90%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4780	732	15*	884	18*	19	44-116/36
95-57-8	2-Chlorophenol	ND		2390	1530	64	1680	70	9	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2390	1820	76	1960	82	7	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2390	1710	72	1900	79	11	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2390	1570	66	1710	71	9	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4780	3110	65	3350	70	7	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4780	3930	82	4330	90	10	58-109/37
95-48-7	2-Methylphenol	ND		2390	1570	66	1730	72	10	53-94/29
	3&4-Methylphenol	ND		4780	3150	66	3460	72	9	54-95/31
88-75-5	2-Nitrophenol	ND		2390	1640	69	1800	75	9	55-96/30
100-02-7	4-Nitrophenol	ND		4780	3660	77	4030	84	10	56-106/29
87-86-5	Pentachlorophenol	ND		4780	3560	74	3950	82	10	50-115/33
108-95-2	Phenol	ND		2390	1630	68	1780	74	9	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2390	1760	74	1880	78	7	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2390	1710	72	1810	75	6	60-100/27
83-32-9	Acenaphthene	ND		2390	1700	71	1880	78	10	59-97/29
208-96-8	Acenaphthylene	ND		2390	1670	70	1780	74	6	58-98/30
120-12-7	Anthracene	ND		2390	1770	74	1900	79	7	61-104/29
92-87-5	Benzidine	ND		2390	1190	50	1270	53	7	10-151/50
56-55-3	Benzo(a)anthracene	ND		2390	1810	76	2000	83	10	60-106/31
50-32-8	Benzo(a)pyrene	ND		2390	1740	73	1870	78	7	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2390	1810	76	2000	83	10	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2390	1800	75	1900	79	5	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2390	1950	82	2050	85	5	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2390	1730	72	1930	80	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2390	1850	77	2030	85	9	57-110/28
100-51-6	Benzyl Alcohol	ND		2390	1660	69	1860	78	11	51-102/34
91-58-7	2-Chloronaphthalene	ND		2390	1600	67	1740	73	8	57-95/28
106-47-8	4-Chloroaniline	ND		2390	1740	73	1910	80	9	19-85/34
218-01-9	Chrysene	ND		2390	1840	77	2020	84	9	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2390	1640	69	1790	75	9	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2390	1470	61	1630	68	10	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2390	1500	63	1630	68	8	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2390	1760	74	1840	77	4	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2390	1470	61	1630	68	10	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2390	1420	59	1590	66	11	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2390	1470	61	1620	68	10	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2390	1760	74	1950	81	10	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2390	1790	75	1940	81	8	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2390	1700	71	1870	78	10	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2390	1840	77	1960	82	6	57-105/29
132-64-9	Dibenzofuran	ND		2390	1690	71	1850	77	9	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2390	1780	74	1950	81	9	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2390	1950	82	2170	90	11	59-117/28
84-66-2	Diethyl phthalate	ND		2390	1820	76	1930	80	6	59-106/27
131-11-3	Dimethyl phthalate	ND		2390	1760	74	1870	78	6	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2390	1830	77	2080	87	13	57-111/29
206-44-0	Fluoranthene	ND		2390	1800	75	1960	82	9	60-110/32
86-73-7	Fluorene	ND		2390	1770	74	1870	78	5	60-99/30
118-74-1	Hexachlorobenzene	ND		2390	1720	72	1910	80	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2390	1520	64	1700	71	11	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2390	1610	67	1810	75	12	36-94/41
67-72-1	Hexachloroethane	ND		2390	1410	59	1590	66	12	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2390	1880	79	1990	83	6	57-104/33
78-59-1	Isophorone	ND		2390	1420	59	1570	65	10	58-97/30
91-57-6	2-Methylnaphthalene	ND		2390	1640	69	1790	75	9	57-103/32
88-74-4	2-Nitroaniline	ND		2390	1740	73	1930	80	10	53-106/29
99-09-2	3-Nitroaniline	ND		2390	1710	72	1900	79	11	29-85/31
100-01-6	4-Nitroaniline	ND		2390	1810	76	1990	83	9	49-104/31
91-20-3	Naphthalene	ND		2390	1580	66	1760	73	11	54-93/32
98-95-3	Nitrobenzene	ND		2390	1540	64	1730	72	12	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2390	1680	70	1870	78	11	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2390	1800	75	1920	80	6	53-107/28
85-01-8	Phenanthrene	ND		2390	1800	75	1970	82	9	61-103/32
129-00-0	Pyrene	ND		2390	1800	75	2000	83	11	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2390	1540	64	1710	71	10	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
367-12-4	2-Fluorophenol	62%	66%	63%	40-102%
4165-62-2	Phenol-d5	64%	70%	68%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95903-2

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
118-79-6	2,4,6-Tribromophenol	71%	77%	79%	42-108%
4165-60-0	Nitrobenzene-d5	62%	68%	65%	40-105%
321-60-8	2-Fluorobiphenyl	65%	69%	69%	43-107%
1718-51-0	Terphenyl-d14	74%	82%	77%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3054-MB	QR070572.D	1	08/16/12	MM	n/a	n/a	GQR3054

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	56-136%
98-08-8	aaa-Trifluorotoluene	104%	61-121%

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3054-BS	QR070571.D	1	08/16/12	MM	n/a	n/a	GQR3054

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	20.4	102	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	61-121%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95905-3MS	QR070947.D	1	08/25/12	MM	n/a	n/a	GQR3054
F95905-3MSD	QR070948.D	1	08/25/12	MM	n/a	n/a	GQR3054
F95905-3	QR070594.D	1	08/16/12	MM	n/a	n/a	GQR3054

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	F95905-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		37.7	33.0	88	31.3	83	5	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F95905-3	Limits
460-00-4	4-Bromofluorobenzene	107%	107%	104%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	103%	102%	61-121%

8.3.1

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109589.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	44-126%
2051-24-3	Decachlorobiphenyl	95%	39-157%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109643.D	1	08/23/12	MV	08/21/12	OP43219	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	44-126%
2051-24-3	Decachlorobiphenyl	101%	39-157%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43139-MB	YY31441.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	106%	49-108%

Method Blank Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43139-MB	YY31502.D	1	08/28/12	SJL	08/16/12	OP43139	GYY1162

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	91%	49-108%

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-BS	ST109588.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	118	89	69-117
11096-82-5	Aroclor 1260	133	122	92	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	44-126%
2051-24-3	Decachlorobiphenyl	92%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43139-BS	YY31440.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	30.5	92	64-102
	TPH (> C22-C36)	33.3	29.1	87	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	97%	49-108%

9.2.2

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MS	ST109593.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
OP43219-MSD	ST109594.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
F95702-2	ST109592.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95903-1, F95903-2, F95903-3

CAS No.	Compound	F95702-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	20	U	159	139	88	136	85	2	69-117/26
11096-82-5	Aroclor 1260	20	U	159	142	89	139	87	2	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F95702-2	Limits
877-09-8	Tetrachloro-m-xylene	91%	88%	93%	44-126%
2051-24-3	Decachlorobiphenyl	92%	89%	89%	39-157%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95903
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43139-MS	YY31451.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160
OP43139-MSD	YY31452.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160
F95901-4	YY31450.D	1	08/22/12	SJL	08/16/12	OP43139	GYY1160

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95903-1, F95903-2, F95903-3

CAS No.	Compound	F95901-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	11	U	43.7	44.2	101	39.9	93	10	64-102/32
	TPH (> C22-C36)	11	U	43.7	43.7	100	40.0	94	9	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F95901-4	Limits
84-15-1	o-Terphenyl	104%	100%	101%	49-108%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/16/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1.2	1.2	0.39	<10
Antimony	1.0	.05	.1	-0.045	<1.0
Arsenic	0.50	.05	.1	-0.045	<0.50
Barium	10	.2	.5	0.0	<10
Beryllium	0.25	.005	.05	-0.0050	<0.25
Cadmium	0.20	.005	.05	-0.0050	<0.20
Calcium	250	2.5	5	1.7	<250
Chromium	0.50	.05	.05	0.0050	<0.50
Cobalt	2.5	.05	.05	-0.010	<2.5
Copper	1.3	.05	.1	-0.16	<1.3
Iron	15	1.2	1.7	1.8	<15
Lead	1.0	.05	.05	0.0050	<1.0
Magnesium	250	2.5	5	-0.58	<250
Manganese	0.75	.05	.05	0.020	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.035	<2.0
Potassium	500	2.5	25	-4.3	<500
Selenium	1.0	.1	.2	-0.0050	<1.0
Silver	0.50	.05	.05	0.0050	<0.50
Sodium	500	43	55	-9.5	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.075	.13	-0.050	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.05	.1		
Vanadium	2.5	.05	.05	-0.010	<2.5
Zinc	1.0	.05	.25	0.055	<1.0

Associated samples MP23467: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			08/16/12					08/16/12	
Metal	F95903-1 Original	DUP	RPD	QC Limits	F95903-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	3240	3100 (a)	4.4	0-20	3240	4140 (a)	1480	61.0N(c)	80-120
Antimony	1.4	0.0 (a)	200.0(b)	0-20	1.4	10.2 (a)	27.3	32.2N(c)	80-120
Arsenic	2.9	2.2 (a)	27.5 (b)	0-20	2.9	114 (a)	109	101.6	80-120
Barium	34.6	34.2 (a)	1.2	0-20	34.6	130 (a)	109	87.3	80-120
Beryllium	0.11	0.11 (a)	0.0	0-20	0.11	2.9 (a)	2.73	102.1	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	2.1 (a)	2.73	76.8N(c)	80-120
Calcium	193000	167000(a	14.4	0-20	193000	178000(a	1370	-1097.7d	80-120
Chromium	4.5	3.9 (a)	14.3	0-20	4.5	14.7 (a)	10.9	93.3	80-120
Cobalt	1.1	1.0 (a)	9.5	0-20	1.1	28.3 (a)	27.3	99.5	80-120
Copper	2.5	1.7 (a)	38.1 (b)	0-20	2.5	16.0 (a)	13.7	98.8	80-120
Iron	3590	3330 (a)	7.5	0-20	3590	4330 (a)	1420	52.1N(c)	80-120
Lead	2.2	1.5 (a)	37.8 (b)	0-20	2.2	27.2 (a)	27.3	91.5	80-120
Magnesium	2480	2310 (a)	7.1	0-20	2480	3720 (a)	1370	90.7	80-120
Manganese	87.5	79.7 (a)	9.3	0-20	87.5	118 (a)	27.3	111.6	80-120
Molybdenum									
Nickel	3.0	2.6 (a)	14.3	0-20	3.0	30.5 (a)	27.3	100.6	80-120
Potassium	854	738 (a)	14.6	0-20	854	2080 (a)	1370	89.7	80-120
Selenium	1.7	0.0 (a)	200.0(b)	0-20	1.7	112 (a)	109	100.9	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.5 (a)	2.73	91.5	80-120
Sodium	0.00	0.00 (a)	NC	0-20	0.00	1750 (a)	1370	128.1N(c	80-120
Strontium									
Thallium	1.0	0.0 (a)	200.0(b)	0-20	1.0	93.7 (a)	109	84.8	80-120
Tin									
Titanium									
Vanadium	10.9	9.6 (a)	12.7	0-20	10.9	36.1 (a)	27.3	92.2	80-120
Zinc	12.2	10.9 (a)	11.3	0-20	12.2	38.4 (a)	27.3	95.9	80-120

Associated samples MP23467: F95903-1, F95903-2, F95903-3

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) Sample dilution required due to sample matrix.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(d) 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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/16/12

Metal	F95903-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	3240	4370 (a)	1410	80.4	5.4	20
Antimony	1.4	12.3 (a)	26	41.9N(b)	18.7	20
Arsenic	2.9	105 (a)	104	98.0	8.2	20
Barium	34.6	135 (a)	104	96.4	3.8	20
Beryllium	0.11	2.6 (a)	2.6	95.6	10.9	20
Cadmium	0.0	1.9 (a)	2.6	73.0N(b)	10.0	20
Calcium	193000	172000(a	1300	-1613.0c	3.4	20
Chromium	4.5	14.6 (a)	10.4	97.0	0.7	20
Cobalt	1.1	25.9 (a)	26	95.2	8.9	20
Copper	2.5	14.6 (a)	13	92.9	9.2	20
Iron	3590	4810 (a)	1350	90.1	10.5	20
Lead	2.2	25.1 (a)	26	87.9	8.0	20
Magnesium	2480	3880 (a)	1300	107.5	4.2	20
Manganese	87.5	118 (a)	26	117.1	0.0	20
Molybdenum						
Nickel	3.0	28.4 (a)	26	97.5	7.1	20
Potassium	854	2010 (a)	1300	88.8	3.4	20
Selenium	1.7	103 (a)	104	97.3	8.4	20
Silver	0.0	2.2 (a)	2.6	84.5	12.8	20
Sodium	0.00	1610 (a)	1300	123.7N(b	8.3	20
Strontium						
Thallium	1.0	90.1 (a)	104	85.5	3.9	20
Tin						
Titanium						
Vanadium	10.9	35.8 (a)	26	95.6	0.8	20
Zinc	12.2	39.1 (a)	26	103.3	1.8	20

Associated samples MP23467: F95903-1, F95903-2, F95903-3

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) Sample dilution required due to sample matrix.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) 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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/16/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1510	1350	111.9	80-120
Antimony	25.8	25	103.2	80-120
Arsenic	103	100	103.0	80-120
Barium	108	100	108.0	80-120
Beryllium	2.7	2.5	108.0	80-120
Cadmium	2.6	2.5	104.0	80-120
Calcium	1410	1250	112.8	80-120
Chromium	10.8	10	108.0	80-120
Cobalt	26.4	25	105.6	80-120
Copper	13.6	12.5	108.8	80-120
Iron	1460	1300	112.3	80-120
Lead	24.5	25	98.0	80-120
Magnesium	1390	1250	111.2	80-120
Manganese	27.5	25	110.0	80-120
Molybdenum				
Nickel	26.8	25	107.2	80-120
Potassium	1400	1250	112.0	80-120
Selenium	102	100	102.0	80-120
Silver	2.6	2.5	104.0	80-120
Sodium	1420	1250	113.6	80-120
Strontium				
Thallium	101	100	101.0	80-120
Tin				
Titanium				
Vanadium	26.8	25	107.2	80-120
Zinc	26.6	25	106.4	80-120

Associated samples MP23467: F95903-1, F95903-2, F95903-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/16/12

Metal	F95903-1 Original	SDL 10:50	%DIF	QC Limits
Aluminum	68700	67800	1.2	0-10
Antimony	28.8	0.00	100.0(a)	0-10
Arsenic	60.7	0.00	100.0(a)	0-10
Barium	732	726	0.8	0-10
Beryllium	2.40	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	4090000	4080000	0.2	0-10
Chromium	95.4	96.4	1.0	0-10
Cobalt	24.2	0.00	100.0(a)	0-10
Copper	52.9	0.00	100.0(a)	0-10
Iron	76000	76800	1.1	0-10
Lead	45.8	0.00	100.0(a)	0-10
Magnesium	52600	53400	1.6	0-10
Manganese	1850	1880	1.6	0-10
Molybdenum				
Nickel	63.8	0.00	100.0(a)	0-10
Potassium	18100	16300	9.9	0-10
Selenium	36.6	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	21.1	0.00	100.0(a)	0-10
Tin				
Titanium				
Vanadium	231	207	10.1 (a)	0-10
Zinc	259	231	11.0 (a)	0-10

Associated samples MP23467: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23467
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/16/12

Metal	Sample ml	Final ml	F95903-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	68680	67306.4	60340	0.2	125	2500	-278.7*a	80-120
Antimony	9.8	10	28.8	28.224	114	0.2	5	100	85.8	80-120
Arsenic	9.8	10	60.7	59.486	142.3	0.2	5	100	82.8	80-120
Barium	9.8	10	732.2	717.556	884.2	0.2	12.5	250	66.7*(a)	80-120
Beryllium	9.8	10	2.4	2.352	56	0.2	2.5	50	107.3	80-120
Cadmium	9.8	10	0	0	41.6	0.2	2.5	50	83.2	80-120
Calcium	9.8	10	4088000	4006240	3453000	0.2	250	5000	-11064.8*a	80-120
Chromium	9.8	10	95.4	93.492	138.1	0.2	2.5	50	89.2	80-120
Cobalt	9.8	10	24.2	23.716	71.4	0.2	2.5	50	95.4	80-120
Copper	9.8	10	52.9	51.842	138.1	0.2	5	100	86.3	80-120
Iron	9.8	10	76010	74489.8	68020	0.2	150	3000	-215.7*a	80-120
Lead	9.8	10	45.8	44.884	79.6	0.2	2.5	50	69.4*(a)	80-120
Magnesium	9.8	10	52590	51538.2	49630	0.2	250	5000	-38.2*(a	80-120
Manganese	9.8	10	1853	1815.94	1641	0.2	2.5	50	-349.9*a	80-120
Molybdenum										
Nickel	9.8	10	63.8	62.524	159.2	0.2	5	100	96.7	80-120
Potassium	9.8	10	18070	17708.6	25300	0.2	500	10000	75.9*(a)	80-120
Selenium	9.8	10	36.6	35.868	116.3	0.2	5	100	80.4	80-120
Silver	9.8	10	0	0	52.1	0.2	2.5	50	104.2	80-120
Sodium	9.8	10	0	0	16010	0.2	500	10000	160.1*(a	80-120
Strontium										
Thallium	9.8	10	21.1	20.678	112.7	0.2	5	100	92.0	80-120
Tin										
Titanium										
Vanadium	9.8	10	230.6	225.988	248.4	0.2	2.5	50	44.8*(a)	80-120
Zinc	9.8	10	258.9	253.722	509.5	0.2	12.5	250	102.3	80-120

Associated samples MP23467: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23550: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0052	0.0051	1.9	0-20	0.0052	0.40	0.34	116.2	80-120

Associated samples MP23550: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96003-3 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0052	0.39	0.34	113.3	2.5	20

Associated samples MP23550: F95903-1, F95903-2, F95903-3

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: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23550: F95903-1, F95903-2, F95903-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95903
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96003-3 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0463	0.00	100.0(a)	0-10

Associated samples MP23550: F95903-1, F95903-2, F95903-3

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

09/04/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F95948

Sampling Dates: 08/14/12 - 08/15/12

Report to:

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Total number of pages in report: **135**

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

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F95948

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F95948-1	08/14/12	12:05	BP	08/16/12	SO	Soil	SS18-DP26-8
F95948-2	08/14/12	12:45	BP	08/16/12	SO	Soil	SS18-DP28-7
F95948-3	08/15/12	09:30	BP	08/16/12	SO	Soil	SS18-DP29-8
F95948-4	08/15/12	10:10	BP	08/16/12	SO	Soil	SS18-DP30-11
F95948-5	08/15/12	11:20	BP	08/16/12	SO	Soil	SS18-DP33-8
F95948-6	08/15/12	00:00	BP	08/16/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F95948

Site: Holloman AFB; SS18 **Report Date** 9/4/2012 9:01:45 AM

5 Samples and 1 Trip Blank were collected on between 08/14/2012 and 08/15/2012 and were received at Accutest on 08/16/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F95948. 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: SO **Batch ID:** VF1780

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95938-17MS, F95938-17MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1-Chlorohexane, Benzyl Chloride, Ethyl methacrylate, Hexachlorobutadiene, m-Dichlorobenzene, n-Butylbenzene, Naphthalene, o-Dichlorobenzene, p-Dichlorobenzene, Vinyl Acetate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1-Chlorohexane, Benzyl Chloride, Carbon tetrachloride, Chlorobenzene, cis-1,3-Dichloropropene, Ethyl methacrylate, Ethylbenzene, Hexachlorobutadiene, m-Dichlorobenzene, n-Butylbenzene, Naphthalene, o-Dichlorobenzene, p-Dichlorobenzene, p-Isopropyltoluene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for Vinyl Acetate are outside control limits for sample F95938-17MSD. Probable cause due to sample non-homogeneity.

F95948-1: Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.

F95948-2: Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43248

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) F96189-9MS, F96189-9MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 3-Nitroaniline are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

F95948-1: Dilution required due to matrix interference; extract was viscous.

Matrix: SO **Batch ID:** OP43263

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) F95949-3MS, F95949-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for Benzoic Acid are outside control limits for sample OP43263-MSD. Probable cause due to sample non-homogeneity.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3058

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96009-4MS, F96009-4MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43265

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for TPH (C10-C22) are outside control limits. Associated sample results may be biased high.

MS/MSD Recovery(s) for TPH (C10-C22) are outside control limits. Probable cause due to matrix interference.

Sample(s) OP43265-MB has surrogates outside control limits.

OP43265-MB for o-Terphenyl: Outside control limits. Suspected double surrogate; however, sample was ND.

F95948-1 for TPH (C10-C22): Associated BS recovery outside control limits.

F95948-2 for TPH (C10-C22): Associated BS recovery outside control limits.

F95948-3 for TPH (C10-C22): Associated BS recovery outside control limits.

F95948-4 for TPH (C10-C22): Associated BS recovery outside control limits.

F95948-5 for TPH (C10-C22): Associated BS recovery outside control limits.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43219

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) F95702-2MS, F95702-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

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) F95948-1DUP, F95948-1MS, F95948-1MSD, F95948-1PS, F95948-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Cadmium, Chromium, Iron, Magnesium, Manganese, Potassium, Thallium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Magnesium, Manganese, Potassium, Sodium are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium 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 Aluminum, Calcium, Magnesium, Manganese are outside control limits for sample MP23518-D1. High RPD due to possible sample non-homogeneity.

MP23518-D1 for Antimony: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Beryllium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Chromium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Copper: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Sodium: RPD acceptable due to low duplicate and sample concentrations.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

MP23518-D1 for Thallium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Zinc: RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for MSD for Cadmium, Calcium, Manganese are outside control limits for sample MP23518-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Chromium, Cobalt, Lead are outside control limits for sample MP23518-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23518-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F95948-1 for Aluminum: Sample dilution required due to sample matrix.

F95948-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Arsenic: Sample dilution required due to sample matrix.

F95948-1 for Barium: Sample dilution required due to sample matrix.

F95948-1 for Beryllium: Sample dilution required due to sample matrix.

F95948-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Cobalt: Sample dilution required due to sample matrix.

F95948-1 for Copper: Sample dilution required due to sample matrix.

F95948-1 for Iron: Sample dilution required due to sample matrix.

F95948-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Magnesium: Sample dilution required due to sample matrix.

F95948-1 for Manganese: Sample dilution required due to sample matrix.

F95948-1 for Nickel: Sample dilution required due to sample matrix.

F95948-1 for Potassium: Sample dilution required due to sample matrix.

F95948-1 for Silver: Sample dilution required due to sample matrix.

F95948-1 for Sodium: Sample dilution required due to sample matrix.

F95948-1 for Vanadium: Sample dilution required due to sample matrix.

F95948-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F95948-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

F95948-2 for Magnesium: Sample dilution required due to sample matrix.

F95948-2 for Aluminum: Sample dilution required due to sample matrix.

F95948-2 for Antimony: Elevated reporting limit(s) due to matrix interference.

F95948-2 for Arsenic: Sample dilution required due to sample matrix.

F95948-2 for Barium: Sample dilution required due to sample matrix.

F95948-2 for Beryllium: Sample dilution required due to sample matrix.

F95948-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

F95948-2 for Chromium: Elevated reporting limit(s) due to matrix interference.
F95948-2 for Cobalt: Sample dilution required due to sample matrix.
F95948-2 for Copper: Sample dilution required due to sample matrix.
F95948-2 for Iron: Sample dilution required due to sample matrix.
F95948-2 for Lead: Elevated reporting limit(s) due to matrix interference.
F95948-2 for Manganese: Sample dilution required due to sample matrix.
F95948-2 for Nickel: Sample dilution required due to sample matrix.
F95948-2 for Potassium: Sample dilution required due to sample matrix.
F95948-2 for Selenium: Elevated reporting limit(s) due to matrix interference.
F95948-2 for Silver: Sample dilution required due to sample matrix.
F95948-2 for Sodium: Sample dilution required due to sample matrix.
F95948-2 for Thallium: Elevated reporting limit(s) due to matrix interference.
F95948-2 for Vanadium: Sample dilution required due to sample matrix.
F95948-2 for Zinc: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Aluminum: Sample dilution required due to sample matrix.
F95948-3 for Antimony: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Arsenic: Sample dilution required due to sample matrix.
F95948-3 for Barium: Sample dilution required due to sample matrix.
F95948-3 for Beryllium: Sample dilution required due to sample matrix.
F95948-3 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Chromium: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Cobalt: Sample dilution required due to sample matrix.
F95948-3 for Copper: Sample dilution required due to sample matrix.
F95948-3 for Iron: Sample dilution required due to sample matrix.
F95948-3 for Lead: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Magnesium: Sample dilution required due to sample matrix.
F95948-3 for Manganese: Sample dilution required due to sample matrix.
F95948-3 for Nickel: Sample dilution required due to sample matrix.
F95948-3 for Potassium: Sample dilution required due to sample matrix.
F95948-3 for Selenium: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Silver: Sample dilution required due to sample matrix.
F95948-3 for Sodium: Sample dilution required due to sample matrix.
F95948-3 for Thallium: Elevated reporting limit(s) due to matrix interference.
F95948-3 for Vanadium: Sample dilution required due to sample matrix.
F95948-3 for Zinc: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Aluminum: Sample dilution required due to sample matrix.
F95948-4 for Antimony: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Arsenic: Sample dilution required due to sample matrix.
F95948-4 for Barium: Sample dilution required due to sample matrix.
F95948-4 for Beryllium: Sample dilution required due to sample matrix.
F95948-4 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Chromium: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Cobalt: Sample dilution required due to sample matrix.
F95948-4 for Copper: Sample dilution required due to sample matrix.
F95948-4 for Iron: Sample dilution required due to sample matrix.
F95948-4 for Lead: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

F95948-4 for Magnesium: Sample dilution required due to sample matrix.
F95948-4 for Manganese: Sample dilution required due to sample matrix.
F95948-4 for Nickel: Sample dilution required due to sample matrix.
F95948-4 for Potassium: Sample dilution required due to sample matrix.
F95948-4 for Selenium: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Silver: Sample dilution required due to sample matrix.
F95948-4 for Sodium: Sample dilution required due to sample matrix.
F95948-4 for Thallium: Elevated reporting limit(s) due to matrix interference.
F95948-4 for Vanadium: Sample dilution required due to sample matrix.
F95948-4 for Zinc: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Aluminum: Sample dilution required due to sample matrix.
F95948-5 for Antimony: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Arsenic: Sample dilution required due to sample matrix.
F95948-5 for Barium: Sample dilution required due to sample matrix.
F95948-5 for Beryllium: Sample dilution required due to sample matrix.
F95948-5 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Chromium: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Cobalt: Sample dilution required due to sample matrix.
F95948-5 for Copper: Sample dilution required due to sample matrix.
F95948-5 for Iron: Sample dilution required due to sample matrix.
F95948-5 for Lead: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Magnesium: Sample dilution required due to sample matrix.
F95948-5 for Manganese: Sample dilution required due to sample matrix.
F95948-5 for Nickel: Sample dilution required due to sample matrix.
F95948-5 for Potassium: Sample dilution required due to sample matrix.
F95948-5 for Selenium: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Silver: Sample dilution required due to sample matrix.
F95948-5 for Sodium: Sample dilution required due to sample matrix.
F95948-5 for Thallium: Elevated reporting limit(s) due to matrix interference.
F95948-5 for Vanadium: Sample dilution required due to sample matrix.
F95948-5 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23521

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) F96138-1MSD, F96138-1SDL, F96138-1DUP, F96138-1MS were used as the QC samples for metals.

MS/MSD Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23521-D1. High RPD due to possible sample non-homogeneity.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51454

Sample(s) F95942-1DUP was used as the QC samples for Solids, Percent.

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: September 4, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F95948
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/14/12 thru 08/15/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95948-1	**SS18-DP26-8**					
TPH (C10-C22)		11.5	10	4.1	mg/kg	SW846 8015C
TPH (> C22-C36)		65.0	10	4.1	mg/kg	SW846 8015C
Aluminum [a]		3200	53	6.3	mg/kg	SW846 6010C
Arsenic [a]		1.6 J	2.6	0.53	mg/kg	SW846 6010C
Barium [a]		53.4	53	2.6	mg/kg	SW846 6010C
Calcium		217000	2600	53	mg/kg	SW846 6010C
Chromium [b]		5.8	5.3	0.53	mg/kg	SW846 6010C
Cobalt [a]		1.1 J	13	0.26	mg/kg	SW846 6010C
Copper [a]		3.5 J	6.6	0.53	mg/kg	SW846 6010C
Iron [a]		3060	79	8.7	mg/kg	SW846 6010C
Lead [b]		1.6 J	11	0.53	mg/kg	SW846 6010C
Magnesium [a]		3990	1300	26	mg/kg	SW846 6010C
Manganese [a]		84.9	4.0	0.26	mg/kg	SW846 6010C
Nickel [a]		3.5 J	11	0.26	mg/kg	SW846 6010C
Potassium [a]		772 J	2600	130	mg/kg	SW846 6010C
Vanadium [a]		8.9 J	13	0.26	mg/kg	SW846 6010C
Zinc [b]		12.4	11	2.6	mg/kg	SW846 6010C
F95948-2	**SS18-DP28-7**					
1,1-Dichloroethane [c]		6.3	5.3	1.2	ug/kg	SW846 8260B
1,1-Dichloroethylene [c]		25.8	5.3	1.5	ug/kg	SW846 8260B
Tetrachloroethylene [c]		21.7	5.3	1.1	ug/kg	SW846 8260B
Trichloroethylene [c]		4.2 J	5.3	1.3	ug/kg	SW846 8260B
Aluminum [a]		5810	42	5.1	mg/kg	SW846 6010C
Antimony [b]		1.2 J	8.5	0.85	mg/kg	SW846 6010C
Arsenic [a]		1.9 J	2.1	0.42	mg/kg	SW846 6010C
Barium [a]		51.2	42	2.1	mg/kg	SW846 6010C
Beryllium [a]		0.29 J	1.1	0.21	mg/kg	SW846 6010C
Calcium		193000	2100	42	mg/kg	SW846 6010C
Chromium [b]		6.1	4.2	0.42	mg/kg	SW846 6010C
Cobalt [a]		1.7 J	11	0.21	mg/kg	SW846 6010C
Copper [a]		2.8 J	5.3	0.42	mg/kg	SW846 6010C
Iron [a]		4910	63	7.0	mg/kg	SW846 6010C
Lead [b]		2.8 J	8.5	0.42	mg/kg	SW846 6010C
Magnesium [a]		4820	1100	21	mg/kg	SW846 6010C
Manganese [a]		73.5	3.2	0.21	mg/kg	SW846 6010C
Nickel [a]		5.3 J	8.5	0.21	mg/kg	SW846 6010C
Potassium [a]		1320 J	2100	110	mg/kg	SW846 6010C
Sodium [a]		2030 J	2100	230	mg/kg	SW846 6010C
Vanadium [a]		13.5	11	0.21	mg/kg	SW846 6010C
Zinc [b]		13.4	8.5	2.1	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95948
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/14/12 thru 08/15/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95948-3	**SS18-DP29-8**					
1,1-Dichloroethane		5.5	5.2	1.1	ug/kg	SW846 8260B
1,1-Dichloroethylene		4.4 J	5.2	1.5	ug/kg	SW846 8260B
Aluminum [a]		3980	50	6.0	mg/kg	SW846 6010C
Arsenic [a]		1.9 J	2.5	0.50	mg/kg	SW846 6010C
Barium [a]		47.4 J	50	2.5	mg/kg	SW846 6010C
Calcium		189000	2500	50	mg/kg	SW846 6010C
Chromium [b]		3.1 J	5.0	0.50	mg/kg	SW846 6010C
Cobalt [a]		1.2 J	13	0.25	mg/kg	SW846 6010C
Copper [a]		3.7 J	6.3	0.50	mg/kg	SW846 6010C
Iron [a]		2850	75	8.3	mg/kg	SW846 6010C
Lead [b]		2.1 J	10	0.50	mg/kg	SW846 6010C
Magnesium [a]		3610	1300	25	mg/kg	SW846 6010C
Manganese [a]		54.2	3.8	0.25	mg/kg	SW846 6010C
Nickel [a]		3.0 J	10	0.25	mg/kg	SW846 6010C
Potassium [a]		883 J	2500	130	mg/kg	SW846 6010C
Vanadium [a]		14.6	13	0.25	mg/kg	SW846 6010C
Zinc [b]		20.0	10	2.5	mg/kg	SW846 6010C
F95948-4	**SS18-DP30-11**					
1,1-Dichloroethane		7.7	4.6	1.0	ug/kg	SW846 8260B
1,1-Dichloroethylene		3.1 J	4.6	1.3	ug/kg	SW846 8260B
cis-1,2-Dichloroethylene		2.9 J	4.6	1.4	ug/kg	SW846 8260B
Tetrachloroethylene		94.9	4.6	0.93	ug/kg	SW846 8260B
Trichloroethylene		9.6	4.6	1.1	ug/kg	SW846 8260B
Aluminum [a]		5130	54	6.4	mg/kg	SW846 6010C
Arsenic [a]		2.2 J	2.7	0.54	mg/kg	SW846 6010C
Barium [a]		27.8 J	54	2.7	mg/kg	SW846 6010C
Beryllium [a]		0.30 J	1.3	0.27	mg/kg	SW846 6010C
Calcium		148000	2700	54	mg/kg	SW846 6010C
Chromium [b]		4.5 J	5.4	0.54	mg/kg	SW846 6010C
Cobalt [a]		1.6 J	13	0.27	mg/kg	SW846 6010C
Copper [a]		2.8 J	6.7	0.54	mg/kg	SW846 6010C
Iron [a]		4510	81	8.9	mg/kg	SW846 6010C
Lead [b]		2.1 J	11	0.54	mg/kg	SW846 6010C
Magnesium [a]		6730	1300	27	mg/kg	SW846 6010C
Manganese [a]		39.4	4.0	0.27	mg/kg	SW846 6010C
Nickel [a]		4.4 J	11	0.27	mg/kg	SW846 6010C
Potassium [a]		1100 J	2700	130	mg/kg	SW846 6010C
Sodium [a]		883 J	2700	300	mg/kg	SW846 6010C
Vanadium [a]		16.3	13	0.27	mg/kg	SW846 6010C
Zinc [b]		10.8 J	11	2.7	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95948
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/14/12 thru 08/15/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95948-5	**SS18-DP33-8**					
Aluminum [a]		3760	59	7.1	mg/kg	SW846 6010C
Arsenic [a]		2.7 J	3.0	0.59	mg/kg	SW846 6010C
Barium [a]		36.9 J	59	3.0	mg/kg	SW846 6010C
Calcium		175000	3000	59	mg/kg	SW846 6010C
Chromium [b]		3.0 J	5.9	0.59	mg/kg	SW846 6010C
Cobalt [a]		1.0 J	15	0.30	mg/kg	SW846 6010C
Copper [a]		2.1 J	7.4	0.59	mg/kg	SW846 6010C
Iron [a]		2840	89	9.7	mg/kg	SW846 6010C
Lead [b]		1.5 J	12	0.59	mg/kg	SW846 6010C
Magnesium [a]		4400	1500	30	mg/kg	SW846 6010C
Manganese [a]		46.9	4.4	0.30	mg/kg	SW846 6010C
Nickel [a]		2.7 J	12	0.30	mg/kg	SW846 6010C
Potassium [a]		808 J	3000	150	mg/kg	SW846 6010C
Vanadium [a]		11.2 J	15	0.30	mg/kg	SW846 6010C
Zinc [b]		8.7 J	12	3.0	mg/kg	SW846 6010C
F95948-6	**TRIP BLANK**					

No hits reported in this sample.

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F0056599.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	6.40 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49	19	ug/kg	
75-05-8	Acetonitrile	ND	49	17	ug/kg	
107-02-8	Acrolein	ND	24	11	ug/kg	
107-13-1	Acrylonitrile	ND	24	11	ug/kg	
107-05-1	Allyl chloride	ND	24	4.9	ug/kg	
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	4.9	1.5	ug/kg	
108-86-1	Bromobenzene	ND	4.9	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	1.1	ug/kg	
75-25-2	Bromoform	ND	4.9	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.97	ug/kg	
75-00-3	Chloroethane	ND	4.9	1.9	ug/kg	
67-66-3	Chloroform	ND	4.9	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	4.9	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	9.7	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.97	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.97	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.97	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	1.4	ug/kg	

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.9	0.97	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.97	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	24	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.97	ug/kg	
97-63-2	Ethyl methacrylate	ND	24	4.9	ug/kg	
76-13-1	Freon 113	ND	4.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	24	5.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	1.9	ug/kg	
110-54-3	Hexane	ND	4.9	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	5.3	ug/kg	
126-98-7	Methacrylonitrile	ND	24	8.9	ug/kg	
74-83-9	Methyl bromide	ND	4.9	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.7	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	4.9	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.9	1.5	ug/kg	
75-09-2	Methylene chloride	ND	9.7	4.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	24	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	24	4.9	ug/kg	
107-12-0	Propionitrile	ND	49	15	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	1.4	ug/kg	
100-42-5	Styrene	ND	4.9	2.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	0.97	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.97	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.2	ug/kg	

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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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	0.97	ug/kg	
108-88-3	Toluene	ND	4.9	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	24	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	24	14	ug/kg	
	m,p-Xylene	ND	9.7	2.1	ug/kg	
95-47-6	o-Xylene	ND	4.9	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-121%
2037-26-5	Toluene-D8	101%		71-130%
460-00-4	4-Bromofluorobenzene	109%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

(a) Soil vials were not preserved within 48 hours of sampling; 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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L059124.D	4	08/23/12	NAF	08/23/12	OP43248	SL3011
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	4100	1400	ug/kg	
95-57-8	2-Chlorophenol	ND	820	82	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	820	82	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	820	82	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	820	100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4100	1600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1600	330	ug/kg	
95-48-7	2-Methylphenol	ND	820	82	ug/kg	
	3&4-Methylphenol	ND	820	120	ug/kg	
88-75-5	2-Nitrophenol	ND	820	82	ug/kg	
100-02-7	4-Nitrophenol	ND	4100	660	ug/kg	
87-86-5	Pentachlorophenol	ND	4100	990	ug/kg	
108-95-2	Phenol	ND	820	82	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	820	82	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	820	82	ug/kg	
83-32-9	Acenaphthene	ND	820	82	ug/kg	
208-96-8	Acenaphthylene	ND	820	82	ug/kg	
120-12-7	Anthracene	ND	820	82	ug/kg	
92-87-5	Benzidine	ND	8200	1600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	820	82	ug/kg	
50-32-8	Benzo(a)pyrene	ND	820	82	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	820	82	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	820	82	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	820	82	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	820	82	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	820	160	ug/kg	
100-51-6	Benzyl Alcohol	ND	820	160	ug/kg	
91-58-7	2-Chloronaphthalene	ND	820	160	ug/kg	
106-47-8	4-Chloroaniline	ND	820	82	ug/kg	
218-01-9	Chrysene	ND	820	82	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	820	82	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	820	82	ug/kg	

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	820	82	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	820	82	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	820	160	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	820	160	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	820	160	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	820	82	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	820	97	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1600	160	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	820	82	ug/kg	
132-64-9	Dibenzofuran	ND	820	82	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1600	330	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	820	160	ug/kg	
84-66-2	Diethyl phthalate	ND	1600	330	ug/kg	
131-11-3	Dimethyl phthalate	ND	820	160	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1600	330	ug/kg	
206-44-0	Fluoranthene	ND	820	82	ug/kg	
86-73-7	Fluorene	ND	820	82	ug/kg	
118-74-1	Hexachlorobenzene	ND	820	82	ug/kg	
87-68-3	Hexachlorobutadiene	ND	820	160	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	820	360	ug/kg	
67-72-1	Hexachloroethane	ND	820	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	820	82	ug/kg	
78-59-1	Isophorone	ND	820	82	ug/kg	
91-57-6	2-Methylnaphthalene	ND	820	82	ug/kg	
88-74-4	2-Nitroaniline	ND	820	160	ug/kg	
99-09-2	3-Nitroaniline	ND	820	160	ug/kg	
100-01-6	4-Nitroaniline	ND	820	160	ug/kg	
91-20-3	Naphthalene	ND	820	130	ug/kg	
98-95-3	Nitrobenzene	ND	820	82	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	820	82	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	820	82	ug/kg	
85-01-8	Phenanthrene	ND	820	82	ug/kg	
129-00-0	Pyrene	ND	820	82	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	820	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	72%		42-108%

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

(a) Dilution required due to matrix interference; extract was viscous.

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070709.D	1	08/19/12	MM	n/a	n/a	GQR3058
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.78 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.6	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109602.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	8.3	ug/kg	
11104-28-2	Aroclor 1221	ND	21	10	ug/kg	
11141-16-5	Aroclor 1232	ND	21	10	ug/kg	
53469-21-9	Aroclor 1242	ND	21	8.3	ug/kg	
12672-29-6	Aroclor 1248	ND	21	8.3	ug/kg	
11097-69-1	Aroclor 1254	ND	21	8.3	ug/kg	
11096-82-5	Aroclor 1260	ND	21	8.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-126%
2051-24-3	Decachlorobiphenyl	92%		39-157%

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	80.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR455.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	11.5	10	4.1	mg/kg	
	TPH (> C22-C36)	65.0	10	4.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-108%

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:	SS18-DP26-8		
Lab Sample ID:	F95948-1	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	80.4
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3200	53	6.3	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic [a]	1.6 J	2.6	0.53	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	53.4	53	2.6	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.26 U	1.3	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [b]	0.53 U	2.1	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Calcium	217000	2600	53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium [b]	5.8	5.3	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Cobalt [a]	1.1 J	13	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	3.5 J	6.6	0.53	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	3060	79	8.7	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [b]	1.6 J	11	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Magnesium [a]	3990	1300	26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	84.9	4.0	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/22/12	08/22/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	3.5 J	11	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	772 J	2600	130	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [b]	2.1 U	11	2.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	0.26 U	2.6	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	290 U	2600	290	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [b]	1.4 U	5.3	1.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Vanadium [a]	8.9 J	13	0.26	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [b]	12.4	11	2.6	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA10075
(2) Instrument QC Batch: MA10076
(3) Instrument QC Batch: MA10086
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23521

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	F0056600.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	6.43 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	21	ug/kg	
75-05-8	Acetonitrile	ND	53	19	ug/kg	
107-02-8	Acrolein	ND	26	12	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.3	ug/kg	
71-43-2	Benzene	ND	5.3	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.3	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.3	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.2	ug/kg	
75-25-2	Bromoform	ND	5.3	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.3	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	6.3	5.3	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	25.8	5.3	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	1.5	ug/kg	

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.3	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.3	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.3	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.3	ug/kg	
76-13-1	Freon 113	ND	5.3	1.8	ug/kg	
591-78-6	2-Hexanone	ND	26	5.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	2.1	ug/kg	
110-54-3	Hexane	ND	5.3	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.8	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.7	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.3	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.3	1.6	ug/kg	
75-09-2	Methylene chloride	ND	11	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.3	ug/kg	
107-12-0	Propionitrile	ND	53	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	1.5	ug/kg	
100-42-5	Styrene	ND	5.3	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.3	ug/kg	

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	1.4	ug/kg	
127-18-4	Tetrachloroethylene	21.7	5.3	1.1	ug/kg	
108-88-3	Toluene	ND	5.3	1.3	ug/kg	
79-01-6	Trichloroethylene	4.2	5.3	1.3	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.3	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	26	15	ug/kg	
	m,p-Xylene	ND	11	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.3	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	110%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

(a) Soil vials were not preserved within 48 hours of sampling; 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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059125.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	45	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	89	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	89	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	98	ug/kg	
67-72-1	Hexachloroethane	ND	220	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	45	ug/kg	
99-09-2	3-Nitroaniline	ND	220	45	ug/kg	
100-01-6	4-Nitroaniline	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		40-102%
4165-62-2	Phenol-d5	74%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070710.D	1	08/19/12	MM	n/a	n/a	GQR3058
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.76 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.6	3.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109603.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.9	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	94%		39-157%

ND = Not detected MDL - Method Detection Limit
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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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	73.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR426.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	ND	11	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP28-7		
Lab Sample ID:	F95948-2	**Date Sampled:**	08/14/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	73.9
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5810	42	5.1	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [b]	1.2 J	8.5	0.85	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic [a]	1.9 J	2.1	0.42	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	51.2	42	2.1	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.29 J	1.1	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [b]	0.42 U	1.7	0.42	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Calcium	193000	2100	42	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium [b]	6.1	4.2	0.42	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Cobalt [a]	1.7 J	11	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	2.8 J	5.3	0.42	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	4910	63	7.0	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [b]	2.8 J	8.5	0.42	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Magnesium [a]	4820	1100	21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	73.5	3.2	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/22/12	08/22/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	5.3 J	8.5	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	1320 J	2100	110	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [b]	1.7 U	8.5	1.7	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	0.21 U	2.1	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	2030 J	2100	230	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [b]	1.1 U	4.2	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Vanadium [a]	13.5	11	0.21	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [b]	13.4	8.5	2.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA10075
(2) Instrument QC Batch: MA10076
(3) Instrument QC Batch: MA10086
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23521

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0056601.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	6.36 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	21	ug/kg	
75-05-8	Acetonitrile	ND	52	19	ug/kg	
107-02-8	Acrolein	ND	26	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.2	ug/kg	
71-43-2	Benzene	ND	5.2	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.2	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.1	ug/kg	
75-25-2	Bromoform	ND	5.2	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.2	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	5.5	5.2	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	4.4	5.2	1.5	ug/kg	J
563-58-6	1,1-Dichloropropene	ND	5.2	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.5	ug/kg	

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.2	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.2	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.2	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.2	ug/kg	
76-13-1	Freon 113	ND	5.2	1.8	ug/kg	
591-78-6	2-Hexanone	ND	26	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/kg	
110-54-3	Hexane	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.7	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.5	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.2	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.2	1.6	ug/kg	
75-09-2	Methylene chloride	ND	10	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.2	ug/kg	
107-12-0	Propionitrile	ND	52	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.5	ug/kg	
100-42-5	Styrene	ND	5.2	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.2	ug/kg	

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.0	ug/kg	
108-88-3	Toluene	ND	5.2	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	26	14	ug/kg	
	m,p-Xylene	ND	10	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	113%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059126.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	380	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	27	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	86	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	31	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	43	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	43	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	86	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	86	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	86	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	95	ug/kg	
67-72-1	Hexachloroethane	ND	220	43	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	43	ug/kg	
99-09-2	3-Nitroaniline	ND	220	43	ug/kg	
100-01-6	4-Nitroaniline	ND	220	43	ug/kg	
91-20-3	Naphthalene	ND	220	35	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		40-102%
4165-62-2	Phenol-d5	77%		41-100%
118-79-6	2,4,6-Tribromophenol	83%		42-108%

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070714.D	1	08/19/12	MM	n/a	n/a	GQR3058
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.97 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.1	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109604.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.8	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.8	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	94%		39-157%

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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	75.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR427.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.4	mg/kg	
	TPH (> C22-C36)	ND	11	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP29-8		
Lab Sample ID:	F95948-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	75.9
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3980	50	6.0	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [b]	1.0 U	10	1.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic [a]	1.9 J	2.5	0.50	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	47.4 J	50	2.5	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.25 U	1.3	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [b]	0.50 U	2.0	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Calcium	189000	2500	50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium [b]	3.1 J	5.0	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Cobalt [a]	1.2 J	13	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	3.7 J	6.3	0.50	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	2850	75	8.3	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [b]	2.1 J	10	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Magnesium [a]	3610	1300	25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	54.2	3.8	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/22/12	08/22/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	3.0 J	10	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	883 J	2500	130	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [b]	2.0 U	10	2.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	0.25 U	2.5	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	280 U	2500	280	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [b]	1.3 U	5.0	1.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Vanadium [a]	14.6	13	0.25	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [b]	20.0	10	2.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA10075
(2) Instrument QC Batch: MA10076
(3) Instrument QC Batch: MA10086
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23521

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0056602.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	6.55 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	46	19	ug/kg	
75-05-8	Acetonitrile	ND	46	17	ug/kg	
107-02-8	Acrolein	ND	23	10	ug/kg	
107-13-1	Acrylonitrile	ND	23	11	ug/kg	
107-05-1	Allyl chloride	ND	23	4.6	ug/kg	
71-43-2	Benzene	ND	4.6	1.4	ug/kg	
100-44-7	Benzyl Chloride	ND	4.6	1.4	ug/kg	
108-86-1	Bromobenzene	ND	4.6	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	4.6	1.0	ug/kg	
75-25-2	Bromoform	ND	4.6	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.6	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.6	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.6	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	4.6	0.93	ug/kg	
75-00-3	Chloroethane	ND	4.6	1.9	ug/kg	
67-66-3	Chloroform	ND	4.6	1.1	ug/kg	
544-10-5	1-Chlorohexane	ND	4.6	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.6	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.6	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	23	9.3	ug/kg	
75-15-0	Carbon disulfide	ND	4.6	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.6	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	7.7	4.6	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	3.1	4.6	1.3	ug/kg	J
563-58-6	1,1-Dichloropropene	ND	4.6	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.6	0.93	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.6	0.93	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.6	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.6	0.93	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.6	1.3	ug/kg	

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.6	0.93	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.9	4.6	1.4	ug/kg	J
10061-01-5	cis-1,3-Dichloropropene	ND	4.6	0.93	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	23	4.6	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.6	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.6	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.6	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.6	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.6	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.6	0.93	ug/kg	
97-63-2	Ethyl methacrylate	ND	23	4.6	ug/kg	
76-13-1	Freon 113	ND	4.6	1.6	ug/kg	
591-78-6	2-Hexanone	ND	23	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.6	1.9	ug/kg	
110-54-3	Hexane	ND	4.6	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.6	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.6	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	23	5.1	ug/kg	
126-98-7	Methacrylonitrile	ND	23	8.5	ug/kg	
74-83-9	Methyl bromide	ND	4.6	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.6	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.3	1.0	ug/kg	
80-62-6	Methyl methacrylate	ND	4.6	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.6	1.4	ug/kg	
75-09-2	Methylene chloride	ND	9.3	4.3	ug/kg	
78-93-3	Methyl ethyl ketone	ND	23	5.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.6	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.6	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	23	4.6	ug/kg	
107-12-0	Propionitrile	ND	46	15	ug/kg	
103-65-1	n-Propylbenzene	ND	4.6	1.3	ug/kg	
100-42-5	Styrene	ND	4.6	2.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.6	0.93	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.6	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.6	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.6	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	0.93	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.6	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	1.1	ug/kg	

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.6	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.6	1.2	ug/kg	
127-18-4	Tetrachloroethylene	94.9	4.6	0.93	ug/kg	
108-88-3	Toluene	ND	4.6	1.1	ug/kg	
79-01-6	Trichloroethylene	9.6	4.6	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	23	4.6	ug/kg	
75-01-4	Vinyl chloride	ND	4.6	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	23	13	ug/kg	
	m,p-Xylene	ND	9.3	2.0	ug/kg	
95-47-6	o-Xylene	ND	4.6	0.93	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	108%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059152.D	1	08/24/12	NAF	08/23/12	OP43248	SL3012
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1000	360	ug/kg	
95-57-8	2-Chlorophenol	ND	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	400	81	ug/kg	
95-48-7	2-Methylphenol	ND	200	20	ug/kg	
	3&4-Methylphenol	ND	200	29	ug/kg	
88-75-5	2-Nitrophenol	ND	200	20	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	160	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	240	ug/kg	
108-95-2	Phenol	ND	200	20	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	20	ug/kg	
83-32-9	Acenaphthene	ND	200	20	ug/kg	
208-96-8	Acenaphthylene	ND	200	20	ug/kg	
120-12-7	Anthracene	ND	200	20	ug/kg	
92-87-5	Benzidine	ND	2000	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	20	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	200	40	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	40	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	40	ug/kg	
106-47-8	4-Chloroaniline	ND	200	20	ug/kg	
218-01-9	Chrysene	ND	200	20	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	20	ug/kg	

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	40	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	40	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	40	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	20	ug/kg	
132-64-9	Dibenzofuran	ND	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	81	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	200	40	ug/kg	
84-66-2	Diethyl phthalate	ND	400	81	ug/kg	
131-11-3	Dimethyl phthalate	ND	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	400	81	ug/kg	
206-44-0	Fluoranthene	ND	200	20	ug/kg	
86-73-7	Fluorene	ND	200	20	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	89	ug/kg	
67-72-1	Hexachloroethane	ND	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	20	ug/kg	
78-59-1	Isophorone	ND	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	20	ug/kg	
88-74-4	2-Nitroaniline	ND	200	40	ug/kg	
99-09-2	3-Nitroaniline	ND	200	40	ug/kg	
100-01-6	4-Nitroaniline	ND	200	40	ug/kg	
91-20-3	Naphthalene	ND	200	32	ug/kg	
98-95-3	Nitrobenzene	ND	200	20	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	20	ug/kg	
85-01-8	Phenanthrene	ND	200	20	ug/kg	
129-00-0	Pyrene	ND	200	20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	65%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070715.D	1	08/19/12	MM	n/a	n/a	GQR3058
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.35 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109605.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	8.0	ug/kg	
11104-28-2	Aroclor 1221	ND	20	9.9	ug/kg	
11141-16-5	Aroclor 1232	ND	20	9.9	ug/kg	
53469-21-9	Aroclor 1242	ND	20	8.0	ug/kg	
12672-29-6	Aroclor 1248	ND	20	8.0	ug/kg	
11097-69-1	Aroclor 1254	ND	20	8.0	ug/kg	
11096-82-5	Aroclor 1260	ND	20	8.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		44-126%
2051-24-3	Decachlorobiphenyl	98%		39-157%

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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	82.4
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR428.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	10	4.0	mg/kg	
	TPH (> C22-C36)	ND	10	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP30-11		
Lab Sample ID:	F95948-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	82.4
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5130	54	6.4	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic [a]	2.2 J	2.7	0.54	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	27.8 J	54	2.7	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.30 J	1.3	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [b]	0.54 U	2.1	0.54	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Calcium	148000	2700	54	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium [b]	4.5 J	5.4	0.54	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Cobalt [a]	1.6 J	13	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	2.8 J	6.7	0.54	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	4510	81	8.9	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [b]	2.1 J	11	0.54	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Magnesium [a]	6730	1300	27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	39.4	4.0	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/22/12	08/22/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	4.4 J	11	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	1100 J	2700	130	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [b]	2.1 U	11	2.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	0.27 U	2.7	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	883 J	2700	300	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [b]	1.4 U	5.4	1.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Vanadium [a]	16.3	13	0.27	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [b]	10.8 J	11	2.7	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA10075
(2) Instrument QC Batch: MA10076
(3) Instrument QC Batch: MA10086
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23521

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0056603.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	6.11 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	55	22	ug/kg	
75-05-8	Acetonitrile	ND	55	20	ug/kg	
107-02-8	Acrolein	ND	28	12	ug/kg	
107-13-1	Acrylonitrile	ND	28	13	ug/kg	
107-05-1	Allyl chloride	ND	28	5.5	ug/kg	
71-43-2	Benzene	ND	5.5	1.7	ug/kg	
100-44-7	Benzyl Chloride	ND	5.5	1.7	ug/kg	
108-86-1	Bromobenzene	ND	5.5	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	1.2	ug/kg	
75-25-2	Bromoform	ND	5.5	1.7	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	1.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.2	ug/kg	
67-66-3	Chloroform	ND	5.5	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.5	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.5	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.5	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.5	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.5	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.5	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.5	1.5	ug/kg	

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.5	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	28	5.5	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.5	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.5	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.5	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	28	5.5	ug/kg	
76-13-1	Freon 113	ND	5.5	1.9	ug/kg	
591-78-6	2-Hexanone	ND	28	5.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.5	2.2	ug/kg	
110-54-3	Hexane	ND	5.5	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	6.1	ug/kg	
126-98-7	Methacrylonitrile	ND	28	10	ug/kg	
74-83-9	Methyl bromide	ND	5.5	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.5	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.5	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.5	1.7	ug/kg	
75-09-2	Methylene chloride	ND	11	5.1	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	6.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.5	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	28	5.5	ug/kg	
107-12-0	Propionitrile	ND	55	18	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	1.5	ug/kg	
100-42-5	Styrene	ND	5.5	2.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	1.3	ug/kg	

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	1.1	ug/kg	
108-88-3	Toluene	ND	5.5	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	28	5.5	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	28	15	ug/kg	
	m,p-Xylene	ND	11	2.4	ug/kg	
95-47-6	o-Xylene	ND	5.5	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	109%		59-148%
17060-07-0	1,2-Dichloroethane-D4	106%		77-123%

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025221.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	90	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	45	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	90	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	90	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	90	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	99	ug/kg	
67-72-1	Hexachloroethane	ND	220	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	45	ug/kg	
99-09-2	3-Nitroaniline	ND	220	45	ug/kg	
100-01-6	4-Nitroaniline	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		40-102%
4165-62-2	Phenol-d5	61%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070716.D	1	08/19/12	MM	n/a	n/a	GQR3058
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	8.5	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109606.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.9	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		44-126%
2051-24-3	Decachlorobiphenyl	87%		39-157%

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:	SS18-DP33-8		
Lab Sample ID:	F95948-5	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR429.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.4	mg/kg	
	TPH (> C22-C36)	ND	11	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-108%

(a) Associated BS recovery outside 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: SS18-DP33-8
Lab Sample ID: F95948-5
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/15/12
Date Received: 08/16/12
Percent Solids: 74.3

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3760	59	7.1	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Antimony [b]	1.2 U	12	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Arsenic [a]	2.7 J	3.0	0.59	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Barium [a]	36.9 J	59	3.0	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Beryllium [a]	0.30 U	1.5	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cadmium [b]	0.59 U	2.4	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Calcium	175000	3000	59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Chromium [b]	3.0 J	5.9	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Cobalt [a]	1.0 J	15	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Copper [a]	2.1 J	7.4	0.59	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Iron [a]	2840	89	9.7	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Lead [b]	1.5 J	12	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Magnesium [a]	4400	1500	30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Manganese [a]	46.9	4.4	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/22/12	08/22/12	JL	SW846 7471B [1]	SW846 7471B [5]
Nickel [a]	2.7 J	12	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Potassium [a]	808 J	3000	150	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Selenium [b]	2.4 U	12	2.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Silver [a]	0.30 U	3.0	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Sodium [a]	320 U	3000	320	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Thallium [b]	1.5 U	5.9	1.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]
Vanadium [a]	11.2 J	15	0.30	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [2]	SW846 3050B [4]
Zinc [b]	8.7 J	12	3.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA10075
(2) Instrument QC Batch: MA10076
(3) Instrument QC Batch: MA10086
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23521

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F95948-6	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0056597.D	1	08/17/12	AH	n/a	n/a	VF1780
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95948-6	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95948-6	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	111%		59-148%
17060-07-0	1,2-Dichloroethane-D4	97%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F95948

Page: 1 of 1

Project No: 11-0020

COC Number(1): 0815 2012 - 1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP26-8		14-08-2012	1205	6 - 8	N		SO	6	X	X	X	X	X	X						1
2	SS18-DP28-7		14-08-2012	1245	5 - 7	N		SO	6	X	X	X	X	X	X						1
3	SS18-DP29-8		15-08-2012	0930	6 - 8	N		SO	6	X	X	X	X	X	X						1
4	SS18-DP30-11		15-08-2012	1010	9 - 11	N		SO	6	X	X	X	X	X	X						1
	~~SS18-DP31-11~~		~~15-08-2012~~																		1
5	SS18-DP33-8		15-08-2012	1120	6 - 8	N		SO	6	X	X	X	X	X	X						
6	Trip Blank				-	TB		SQ												2-143-001	
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	8/15/2012	1330	1. FX		
2. FX	8/16/12	10:00	2. Scott Hill AISE	8/16/12	10:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 7987 5048 6557

Analytical Lab: Accutest

Delivery Location: Orlando, FL

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0

5.1

5

F95948: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F95948 CLIENT: NATIONVIEW PROJECT: SS-18 SUPP. ACM

DATE/TIME RECEIVED: 08/16/12 10:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 5048 6557

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
- [ ] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 5+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.0
- [ ] 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:

TECHNICIAN SIGNATURE/DATE 08/16/12 REVIEWER SIGNATURE/DATE 08/16/12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F95948: Chain of Custody

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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

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-MB	F0056596.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-MB	F0056596.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-MB	F0056596.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	109%	59-148%
17060-07-0	1,2-Dichloroethane-D4	94%	77-123%

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-BS	F0056595.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	325	130	61-144
75-05-8	Acetonitrile	500	578	116	59-139
107-02-8	Acrolein	250	217	87	27-156
107-13-1	Acrylonitrile	250	279	112	55-144
107-05-1	Allyl chloride	50	51.7	103	41-152
71-43-2	Benzene	50	54.8	110	78-130
100-44-7	Benzyl Chloride	50	56.7	113	74-130
108-86-1	Bromobenzene	50	52.3	105	78-123
74-97-5	Bromochloromethane	50	52.4	105	72-122
75-27-4	Bromodichloromethane	50	53.5	107	73-122
75-25-2	Bromoform	50	53.6	107	70-139
104-51-8	n-Butylbenzene	50	51.9	104	80-138
135-98-8	sec-Butylbenzene	50	55.6	111	82-132
98-06-6	tert-Butylbenzene	50	53.9	108	79-130
108-90-7	Chlorobenzene	50	55.5	111	83-122
75-00-3	Chloroethane	50	42.5	85	61-153
67-66-3	Chloroform	50	50.4	101	79-129
544-10-5	1-Chlorohexane	50	50.6	101	85-137
95-49-8	o-Chlorotoluene	50	52.5	105	77-123
106-43-4	p-Chlorotoluene	50	55.4	111	78-129
110-75-8	2-Chloroethyl vinyl ether	250	324	130	52-142
75-15-0	Carbon disulfide	50	47.4	95	61-142
56-23-5	Carbon tetrachloride	50	44.3	89	79-135
75-34-3	1,1-Dichloroethane	50	51.3	103	77-132
75-35-4	1,1-Dichloroethylene	50	51.4	103	66-132
563-58-6	1,1-Dichloropropene	50	52.6	105	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	56.3	113	67-129
106-93-4	1,2-Dibromoethane	50	56.3	113	77-126
107-06-2	1,2-Dichloroethane	50	52.1	104	78-129
78-87-5	1,2-Dichloropropane	50	53.8	108	74-127
142-28-9	1,3-Dichloropropane	50	54.4	109	78-118
594-20-7	2,2-Dichloropropane	50	50.1	100	80-137
124-48-1	Dibromochloromethane	50	54.7	109	78-117
75-71-8	Dichlorodifluoromethane	50	52.5	105	35-162
156-59-2	cis-1,2-Dichloroethylene	50	55.0	110	74-123
10061-01-5	cis-1,3-Dichloropropene	50	53.0	106	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-BS	F0056595.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	58.4	117	71-126
541-73-1	m-Dichlorobenzene	50	54.9	110	82-126
95-50-1	o-Dichlorobenzene	50	56.3	113	83-123
106-46-7	p-Dichlorobenzene	50	51.3	103	84-124
156-60-5	trans-1,2-Dichloroethylene	50	50.8	102	77-129
10061-02-6	trans-1,3-Dichloropropene	50	54.5	109	87-131
100-41-4	Ethylbenzene	50	52.1	104	82-124
97-63-2	Ethyl methacrylate	50	57.1	114	78-118
76-13-1	Freon 113	50	46.5	93	62-147
591-78-6	2-Hexanone	250	291	116	67-130
87-68-3	Hexachlorobutadiene	50	51.6	103	77-150
110-54-3	Hexane	50	46.9	94	65-147
98-82-8	Isopropylbenzene	50	57.6	115	82-133
99-87-6	p-Isopropyltoluene	50	55.0	110	82-132
108-10-1	4-Methyl-2-pentanone	250	291	116	69-125
126-98-7	Methacrylonitrile	500	590	118	70-138
74-83-9	Methyl bromide	50	44.9	90	60-146
74-87-3	Methyl chloride	50	48.8	98	58-163
74-88-4	Methyl iodide	50	50.9	102	66-128
80-62-6	Methyl methacrylate	50	62.6	125	73-125
74-95-3	Methylene bromide	50	54.4	109	75-128
75-09-2	Methylene chloride	50	49.8	100	62-140
78-93-3	Methyl ethyl ketone	250	325	130	66-134
1634-04-4	Methyl Tert Butyl Ether	50	54.0	108	70-131
91-20-3	Naphthalene	50	60.5	121	59-143
76-01-7	Pentachloroethane	50	59.4	119	64-156
107-12-0	Propionitrile	500	618	124	73-133
103-65-1	n-Propylbenzene	50	54.9	110	78-129
100-42-5	Styrene	50	54.2	108	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	52.4	105	81-121
71-55-6	1,1,1-Trichloroethane	50	48.4	97	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	54.5	109	70-128
79-00-5	1,1,2-Trichloroethane	50	53.1	106	76-118
87-61-6	1,2,3-Trichlorobenzene	50	54.2	108	78-136
96-18-4	1,2,3-Trichloropropane	50	54.7	109	74-125
120-82-1	1,2,4-Trichlorobenzene	50	55.9	112	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF1780-BS	F0056595.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	50.8	102	77-129
108-67-8	1,3,5-Trimethylbenzene	50	50.6	101	79-129
127-18-4	Tetrachloroethylene	50	53.4	107	79-132
108-88-3	Toluene	50	52.8	106	80-123
79-01-6	Trichloroethylene	50	52.8	106	78-132
75-69-4	Trichlorofluoromethane	50	46.1	92	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	49.9	100	74-138
75-01-4	Vinyl chloride	50	47.6	95	60-145
108-05-4	Vinyl Acetate	250	281	112	25-164
	m,p-Xylene	100	109	109	82-128
95-47-6	o-Xylene	50	57.5	115	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	103%	71-130%
460-00-4	4-Bromofluorobenzene	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	95%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-17MS	F0056608.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17MSD	F0056609.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17 [a]	F0056598.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	F95938-17 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	27.3	J	318	293	83	296	84	1	61-144/29
75-05-8	Acetonitrile	ND		637	486	76	533	84	9	59-139/30
107-02-8	Acrolein	ND		318	89.5	28	127	40	35	27-156/39
107-13-1	Acrylonitrile	ND		318	244	77	243	76	0	55-144/24
107-05-1	Allyl chloride	ND		63.7	58.0	91	53.6	84	8	41-152/24
71-43-2	Benzene	ND		63.7	59.1	93	55.5	87	6	78-130/25
100-44-7	Benzyl Chloride	ND		63.7	45.8	72*	42.9	67*	7	74-130/28
108-86-1	Bromobenzene	ND		63.7	55.5	87	51.2	80	8	78-123/30
74-97-5	Bromochloromethane	ND		63.7	55.3	87	52.1	82	6	72-122/23
75-27-4	Bromodichloromethane	ND		63.7	58.1	91	53.6	84	8	73-122/25
75-25-2	Bromoform	ND		63.7	52.1	82	48.4	76	7	70-139/26
104-51-8	n-Butylbenzene	ND		63.7	49.3	77*	45.0	71*	9	80-138/31
135-98-8	sec-Butylbenzene	ND		63.7	60.0	94	53.8	84	11	82-132/29
98-06-6	tert-Butylbenzene	ND		63.7	62.0	97	55.6	87	11	79-130/29
108-90-7	Chlorobenzene	ND		63.7	56.4	89	52.2	82*	8	83-122/23
75-00-3	Chloroethane	ND		63.7	51.3	81	46.7	73	9	61-153/31
67-66-3	Chloroform	ND		63.7	56.6	89	52.6	83	7	79-129/27
544-10-5	1-Chlorohexane	ND		63.7	50.1	79*	45.3	71*	10	85-137/29
95-49-8	o-Chlorotoluene	ND		63.7	58.8	92	52.5	82	11	77-123/31
106-43-4	p-Chlorotoluene	ND		63.7	57.7	91	52.7	83	9	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		318	311	98	298	94	4	52-142/25
75-15-0	Carbon disulfide	ND		63.7	53.3	84	50.3	79	6	61-142/27
56-23-5	Carbon tetrachloride	ND		63.7	51.5	81	47.7	75*	8	79-135/29
75-34-3	1,1-Dichloroethane	ND		63.7	57.0	89	53.3	84	7	77-132/26
75-35-4	1,1-Dichloroethylene	ND		63.7	60.3	95	57.2	90	5	66-132/27
563-58-6	1,1-Dichloropropene	ND		63.7	57.2	90	52.9	83	8	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		63.7	54.1	85	49.7	78	8	67-129/29
106-93-4	1,2-Dibromoethane	ND		63.7	56.7	89	54.3	85	4	77-126/24
107-06-2	1,2-Dichloroethane	ND		63.7	56.5	89	53.6	84	5	78-129/24
78-87-5	1,2-Dichloropropane	ND		63.7	56.9	89	53.9	85	5	74-127/27
142-28-9	1,3-Dichloropropane	ND		63.7	56.5	89	52.9	83	7	78-118/26
594-20-7	2,2-Dichloropropane	ND		63.7	55.8	88	52.1	82	7	80-137/28
124-48-1	Dibromochloromethane	ND		63.7	56.7	89	53.5	84	6	78-117/27
75-71-8	Dichlorodifluoromethane	ND		63.7	57.6	90	56.4	89	2	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		63.7	57.9	91	54.3	85	6	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		63.7	53.8	84	50.0	78*	7	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-17MS	F0056608.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17MSD	F0056609.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17 [a]	F0056598.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	F95938-17 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		63.7	60.8	95	55.3	87	9	71-126/28
541-73-1	m-Dichlorobenzene	ND		63.7	50.3	79*	47.8	75*	5	82-126/29
95-50-1	o-Dichlorobenzene	ND		63.7	49.1	77*	46.1	72*	6	83-123/28
106-46-7	p-Dichlorobenzene	ND		63.7	47.1	74*	44.4	70*	6	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		63.7	57.1	90	51.8	81	10	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		63.7	56.6	89	53.6	84*	5	87-131/27
100-41-4	Ethylbenzene	ND		63.7	56.4	89	51.8	81*	9	82-124/25
97-63-2	Ethyl methacrylate	ND		63.7	26.6	42*	32.2	51*	19	78-118/30
76-13-1	Freon 113	ND		63.7	52.8	83	50.3	79	5	62-147/29
591-78-6	2-Hexanone	ND		318	269	84	261	82	3	67-130/29
87-68-3	Hexachlorobutadiene	ND		63.7	40.9	64*	38.7	61*	6	77-150/36
110-54-3	Hexane	ND		63.7	48.6	76	44.7	70	8	65-147/27
98-82-8	Isopropylbenzene	ND		63.7	59.8	94	54.6	86	9	82-133/27
99-87-6	p-Isopropyltoluene	ND		63.7	57.8	91	51.9	81*	11	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		318	288	90	279	88	3	69-125/24
126-98-7	Methacrylonitrile	ND		637	538	84	531	83	1	70-138/22
74-83-9	Methyl bromide	ND		63.7	53.3	84	50.8	80	5	60-146/31
74-87-3	Methyl chloride	ND		63.7	55.8	88	55.1	87	1	58-163/26
74-88-4	Methyl iodide	ND		63.7	55.7	87	53.4	84	4	66-128/27
80-62-6	Methyl methacrylate	ND		63.7	74.2	116	68.9	108	7	73-125/24
74-95-3	Methylene bromide	ND		63.7	56.8	89	53.8	84	5	75-128/26
75-09-2	Methylene chloride	ND		63.7	67.9	107	60.9	96	11	62-140/25
78-93-3	Methyl ethyl ketone	ND		318	282	89	281	88	0	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		63.7	55.2	87	53.9	85	2	70-131/25
91-20-3	Naphthalene	ND		63.7	30.3	48*	32.7	51*	8	59-143/31
76-01-7	Pentachloroethane	ND		63.7	62.8	99	56.3	88	11	64-156/37
107-12-0	Propionitrile	ND		637	537	84	536	84	0	73-133/23
103-65-1	n-Propylbenzene	ND		63.7	62.7	98	56.0	88	11	78-129/29
100-42-5	Styrene	ND		63.7	51.1	80	47.5	75*	7	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		63.7	56.6	89	52.2	82	8	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		63.7	56.8	89	53.1	83	7	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		63.7	60.0	94	55.5	87	8	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		63.7	57.1	90	53.3	84	7	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		63.7	26.9	42*	30.4	48*	12	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		63.7	62.3	98	57.3	90	8	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		63.7	31.4	49*	34.2	54*	9	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-17MS	F0056608.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17MSD	F0056609.D	1	08/17/12	AH	n/a	n/a	VF1780
F95938-17 [a]	F0056598.D	1	08/17/12	AH	n/a	n/a	VF1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5, F95948-6

CAS No.	Compound	F95938-17 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		63.7	55.3	87	50.0	78	10	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		63.7	57.6	90	51.6	81	11	79-129/31
127-18-4	Tetrachloroethylene	ND		63.7	59.2	93	54.9	86	8	79-132/27
108-88-3	Toluene	ND		63.7	59.0	93	53.7	84	9	80-123/26
79-01-6	Trichloroethylene	ND		63.7	58.5	92	54.5	86	7	78-132/28
75-69-4	Trichlorofluoromethane	ND		63.7	56.7	89	53.1	83	7	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		63.7	53.8	84	47.0	74	13	74-138/30
75-01-4	Vinyl chloride	ND		63.7	54.9	86	54.2	85	1	60-145/29
108-05-4	Vinyl Acetate	ND		318	28.2	9*	79.4	25	95*	25-164/35
	m,p-Xylene	ND		127	116	91	106	83	9	82-128/25
95-47-6	o-Xylene	ND		63.7	59.2	93	55.2	87	7	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F95938-17	Limits
1868-53-7	Dibromofluoromethane	103%	101%	104%	80-121%
2037-26-5	Toluene-D8	107%	107%	104%	71-130%
460-00-4	4-Bromofluorobenzene	113%	113%	111%	59-148%
17060-07-0	1,2-Dichloroethane-D4	97%	102%	102%	77-123%

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059105.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059105.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	40-102%
4165-62-2	Phenol-d5	74%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059105.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	78%	42-108%
4165-60-0	Nitrobenzene-d5	70%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059151.D	1	08/24/12	NAF	08/23/12	OP43248	SL3012

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059151.D	1	08/24/12	NAF	08/23/12	OP43248	SL3012

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	67%	40-102%
4165-62-2	Phenol-d5	71%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	L059151.D	1	08/24/12	NAF	08/23/12	OP43248	SL3012

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	80%	42-108%
4165-60-0	Nitrobenzene-d5	70%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	T003772.D	1	08/27/12	FS	08/23/12	OP43248	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	T003772.D	1	08/27/12	FS	08/23/12	OP43248	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	70%	40-102%
4165-62-2	Phenol-d5	76%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MB	T003772.D	1	08/27/12	FS	08/23/12	OP43248	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	92%	42-108%
4165-60-0	Nitrobenzene-d5	75%	40-105%
321-60-8	2-Fluorobiphenyl	80%	43-107%
1718-51-0	Terphenyl-d14	91%	45-119%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	40-102%
4165-62-2	Phenol-d5	72%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	81%	42-108%
4165-60-0	Nitrobenzene-d5	69%	40-105%
321-60-8	2-Fluorobiphenyl	73%	43-107%
1718-51-0	Terphenyl-d14	101%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	64%	40-102%
4165-62-2	Phenol-d5	72%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	78%	42-108%
4165-60-0	Nitrobenzene-d5	68%	40-105%
321-60-8	2-Fluorobiphenyl	74%	43-107%
1718-51-0	Terphenyl-d14	96%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	57%	40-102%
4165-62-2	Phenol-d5	62%	41-100%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	74%	42-108%
4165-60-0	Nitrobenzene-d5	62%	40-105%
321-60-8	2-Fluorobiphenyl	66%	43-107%
1718-51-0	Terphenyl-d14	84%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-BS	L059104.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2450	74	44-116
95-57-8	2-Chlorophenol	1670	1260	76	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1400	84	59-102
120-83-2	2,4-Dichlorophenol	1670	1350	81	60-101
105-67-9	2,4-Dimethylphenol	1670	1200	72	49-89
51-28-5	2,4-Dinitrophenol	3330	2960	89	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3040	91	58-109
95-48-7	2-Methylphenol	1670	1210	73	53-94
	3&4-Methylphenol	3330	2400	72	54-95
88-75-5	2-Nitrophenol	1670	1330	80	55-96
100-02-7	4-Nitrophenol	3330	2870	86	56-106
87-86-5	Pentachlorophenol	3330	2720	82	50-115
108-95-2	Phenol	1670	1280	77	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1320	79	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1310	79	60-100
83-32-9	Acenaphthene	1670	1340	80	59-97
208-96-8	Acenaphthylene	1670	1310	79	58-98
120-12-7	Anthracene	1670	1340	80	61-104
56-55-3	Benzo(a)anthracene	1670	1360	82	60-106
50-32-8	Benzo(a)pyrene	1670	1300	78	59-102
205-99-2	Benzo(b)fluoranthene	1670	1390	83	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1450	87	56-103
207-08-9	Benzo(k)fluoranthene	1670	1460	88	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1340	80	60-104
85-68-7	Butyl benzyl phthalate	1670	1380	83	57-110
100-51-6	Benzyl Alcohol	1670	1300	78	51-102
91-58-7	2-Chloronaphthalene	1670	1240	74	57-95
106-47-8	4-Chloroaniline	1670	1360	82	19-85
218-01-9	Chrysene	1670	1390	83	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1290	77	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1210	73	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1180	71	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1340	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1210	73	47-91
541-73-1	1,3-Dichlorobenzene	1670	1180	71	45-86
106-46-7	1,4-Dichlorobenzene	1670	1240	74	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-BS	L059104.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1350	81	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1220	73	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1430	86	57-105
132-64-9	Dibenzofuran	1670	1340	80	58-103
84-74-2	Di-n-butyl phthalate	1670	1360	82	59-105
117-84-0	Di-n-octyl phthalate	1670	1450	87	59-117
84-66-2	Diethyl phthalate	1670	1370	82	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1390	83	57-111
206-44-0	Fluoranthene	1670	1350	81	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1330	80	58-103
87-68-3	Hexachlorobutadiene	1670	1240	74	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1350	81	36-94
67-72-1	Hexachloroethane	1670	1180	71	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1430	86	57-104
78-59-1	Isophorone	1670	1100	66	58-97
91-57-6	2-Methylnaphthalene	1670	1310	79	57-103
88-74-4	2-Nitroaniline	1670	1370	82	53-106
99-09-2	3-Nitroaniline	1670	1330	80	29-85
100-01-6	4-Nitroaniline	1670	1400	84	49-104
91-20-3	Naphthalene	1670	1280	77	54-93
98-95-3	Nitrobenzene	1670	1270	76	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1300	78	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1320	79	53-107
85-01-8	Phenanthrene	1670	1350	81	61-103
129-00-0	Pyrene	1670	1370	82	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1220	73	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	73%	40-102%
4165-62-2	Phenol-d5	74%	41-100%
118-79-6	2,4,6-Tribromophenol	77%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-BS	L059104.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	73%	40-105%
321-60-8	2-Fluorobiphenyl	74%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2170	65	44-116
95-57-8	2-Chlorophenol	1670	1140	68	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1230	74	59-102
120-83-2	2,4-Dichlorophenol	1670	1210	73	60-101
105-67-9	2,4-Dimethylphenol	1670	1100	66	49-89
51-28-5	2,4-Dinitrophenol	3330	2530	76	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3000	90	58-109
95-48-7	2-Methylphenol	1670	1110	67	53-94
	3&4-Methylphenol	3330	2220	67	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2710	81	56-106
87-86-5	Pentachlorophenol	3330	2770	83	50-115
108-95-2	Phenol	1670	1180	71	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1280	77	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1260	76	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1420	85	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1440	86	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1430	86	56-103
207-08-9	Benzo(k)fluoranthene	1670	1520	91	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1350	81	60-104
85-68-7	Butyl benzyl phthalate	1670	1410	85	57-110
100-51-6	Benzyl Alcohol	1670	1190	71	51-102
91-58-7	2-Chloronaphthalene	1670	1250	75	57-95
106-47-8	4-Chloroaniline	1670	1230	74	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1170	70	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1080	65	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1110	67	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1300	78	60-101
95-50-1	1,2-Dichlorobenzene	1670	1110	67	47-91
541-73-1	1,3-Dichlorobenzene	1670	1080	65	45-86
106-46-7	1,4-Dichlorobenzene	1670	1100	66	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1320	79	59-103
606-20-2	2,6-Dinitrotoluene	1670	1320	79	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1350	81	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1430	86	57-105
132-64-9	Dibenzofuran	1670	1310	79	58-103
84-74-2	Di-n-butyl phthalate	1670	1350	81	59-105
117-84-0	Di-n-octyl phthalate	1670	1420	85	59-117
84-66-2	Diethyl phthalate	1670	1350	81	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1410	85	57-111
206-44-0	Fluoranthene	1670	1350	81	60-110
86-73-7	Fluorene	1670	1300	78	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1150	69	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1160	70	36-94
67-72-1	Hexachloroethane	1670	1080	65	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1410	85	57-104
78-59-1	Isophorone	1670	992	60	58-97
91-57-6	2-Methylnaphthalene	1670	1170	70	57-103
88-74-4	2-Nitroaniline	1670	1320	79	53-106
99-09-2	3-Nitroaniline	1670	1250	75	29-85
100-01-6	4-Nitroaniline	1670	1370	82	49-104
91-20-3	Naphthalene	1670	1130	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1110	67	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1400	84	53-107
85-01-8	Phenanthrene	1670	1410	85	61-103
129-00-0	Pyrene	1670	1440	86	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1140	68	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	64%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	73%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MS	L059107.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
OP43248-MSD	L059108.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
F96189-9	L059106.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Compound	F96189-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		3850	2980	77	3090	80	4	44-116/36
95-57-8	2-Chlorophenol	ND		1920	1530	79	1620	84	6	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		1920	1660	86	1730	90	4	59-102/27
120-83-2	2,4-Dichlorophenol	ND		1920	1610	84	1710	89	6	60-101/30
105-67-9	2,4-Dimethylphenol	ND		1920	1450	75	1510	78	4	49-89/31
51-28-5	2,4-Dinitrophenol	ND		3850	3580	93	3800	99	6	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		3850	3640	95	3750	97	3	58-109/37
95-48-7	2-Methylphenol	ND		1920	1480	77	1560	81	5	53-94/29
	3&4-Methylphenol	ND		3850	2890	75	3060	79	6	54-95/31
88-75-5	2-Nitrophenol	ND		1920	1610	84	1650	86	2	55-96/30
100-02-7	4-Nitrophenol	ND		3850	3470	90	3590	93	3	56-106/29
87-86-5	Pentachlorophenol	ND		3850	3290	85	3450	90	5	50-115/33
108-95-2	Phenol	ND		1920	1560	81	1640	85	5	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		1920	1600	83	1640	85	2	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		1920	1570	82	1600	83	2	60-100/27
83-32-9	Acenaphthene	ND		1920	1590	83	1650	86	4	59-97/29
208-96-8	Acenaphthylene	ND		1920	1570	82	1630	85	4	58-98/30
120-12-7	Anthracene	ND		1920	1590	83	1650	86	4	61-104/29
56-55-3	Benzo(a)anthracene	ND		1920	1640	85	1700	88	4	60-106/31
50-32-8	Benzo(a)pyrene	ND		1920	1530	79	1590	83	4	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		1920	1680	87	1660	86	1	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		1920	1700	88	1760	91	3	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		1920	1660	86	1840	96	10	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		1920	1590	83	1640	85	3	60-104/26
85-68-7	Butyl benzyl phthalate	ND		1920	1680	87	1720	89	2	57-110/28
100-51-6	Benzyl Alcohol	ND		1920	1600	83	1710	89	7	51-102/34
91-58-7	2-Chloronaphthalene	ND		1920	1500	78	1540	80	3	57-95/28
106-47-8	4-Chloroaniline	ND		1920	1580	82	1640	85	4	19-85/34
218-01-9	Chrysene	ND		1920	1640	85	1720	89	5	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		1920	1560	81	1610	84	3	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		1920	1490	77	1570	82	5	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		1920	1440	75	1490	77	3	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		1920	1590	83	1680	87	6	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		1920	1470	76	1530	79	4	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		1920	1440	75	1510	78	5	45-86/36
106-46-7	1,4-Dichlorobenzene	ND		1920	1480	77	1580	82	7	45-88/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MS	L059107.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
OP43248-MSD	L059108.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
F96189-9	L059106.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

7.3.1

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CAS No.	Compound	F96189-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		1920	1630	85	1690	88	4	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		1920	1640	85	1680	87	2	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		1920	1470	76	1450	75	1	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		1920	1680	87	1750	91	4	57-105/29
132-64-9	Dibenzofuran	ND		1920	1610	84	1660	86	3	58-103/27
84-74-2	Di-n-butyl phthalate	ND		1920	1610	84	1660	86	3	59-105/27
117-84-0	Di-n-octyl phthalate	ND		1920	1680	87	1770	92	5	59-117/28
84-66-2	Diethyl phthalate	ND		1920	1640	85	1710	89	4	59-106/27
131-11-3	Dimethyl phthalate	ND		1920	1590	83	1640	85	3	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1920	1670	87	1740	90	4	57-111/29
206-44-0	Fluoranthene	ND		1920	1590	83	1670	87	5	60-110/32
86-73-7	Fluorene	ND		1920	1590	83	1660	86	4	60-99/30
118-74-1	Hexachlorobenzene	ND		1920	1590	83	1640	85	3	58-103/27
87-68-3	Hexachlorobutadiene	ND		1920	1500	78	1550	81	3	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		1920	1630	85	1710	89	5	36-94/41
67-72-1	Hexachloroethane	ND		1920	1420	74	1510	78	6	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1920	1680	87	1730	90	3	57-104/33
78-59-1	Isophorone	ND		1920	1340	70	1390	72	4	58-97/30
91-57-6	2-Methylnaphthalene	ND		1920	1580	82	1640	85	4	57-103/32
88-74-4	2-Nitroaniline	ND		1920	1650	86	1730	90	5	53-106/29
99-09-2	3-Nitroaniline	ND		1920	1570	82	1650	86*	5	29-85/31
100-01-6	4-Nitroaniline	ND		1920	1660	86	1720	89	4	49-104/31
91-20-3	Naphthalene	ND		1920	1570	82	1600	83	2	54-93/32
98-95-3	Nitrobenzene	ND		1920	1510	78	1590	83	5	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		1920	1570	82	1650	86	5	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		1920	1600	83	1630	85	2	53-107/28
85-01-8	Phenanthrene	ND		1920	1620	84	1690	88	4	61-103/32
129-00-0	Pyrene	ND		1920	1600	83	1690	88	5	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		1920	1470	76	1560	81	6	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96189-9	Limits
367-12-4	2-Fluorophenol	77%	79%	65%	40-102%
4165-62-2	Phenol-d5	79%	83%	69%	41-100%
118-79-6	2,4,6-Tribromophenol	81%	82%	79%	42-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43248-MS	L059107.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
OP43248-MSD	L059108.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011
F96189-9	L059106.D	1	08/23/12	NAF	08/23/12	OP43248	SL3011

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-1, F95948-2, F95948-3, F95948-4

CAS No.	Surrogate Recoveries	MS	MSD	F96189-9	Limits
4165-60-0	Nitrobenzene-d5	77%	80%	67%	40-105%
321-60-8	2-Fluorobiphenyl	77%	78%	71%	43-107%
1718-51-0	Terphenyl-d14	85%	87%	81%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	F95949-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4610	873	19*	1320	29*	41*	44-116/36
95-57-8	2-Chlorophenol	ND		2300	1690	73	1730	76	2	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2300	1790	78	1820	80	2	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2300	1810	79	1850	82	2	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2300	1620	70	1660	73	2	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4610	2770	60	2950	65	6	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4610	4080	89	4160	92	2	58-109/37
95-48-7	2-Methylphenol	ND		2300	1680	73	1690	75	1	53-94/29
	3&4-Methylphenol	ND		4610	3360	73	3370	74	0	54-95/31
88-75-5	2-Nitrophenol	ND		2300	1790	78	1820	80	2	55-96/30
100-02-7	4-Nitrophenol	ND		4610	3730	81	3800	84	2	56-106/29
87-86-5	Pentachlorophenol	ND		4610	3890	84	4010	89	3	50-115/33
108-95-2	Phenol	ND		2300	1760	76	1790	79	2	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2300	1930	84	2010	89	4	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2300	1910	83	1970	87	3	60-100/27
83-32-9	Acenaphthene	ND		2300	1900	83	1940	86	2	59-97/29
208-96-8	Acenaphthylene	ND		2300	1880	82	1940	86	3	58-98/30
120-12-7	Anthracene	ND		2300	1910	83	1950	86	2	61-104/29
92-87-5	Benzidine	ND		2300	891	39	1010	45	13	10-151/50
56-55-3	Benzo(a)anthracene	ND		2300	2000	87	2050	91	2	60-106/31
50-32-8	Benzo(a)pyrene	ND		2300	1890	82	1950	86	3	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2300	2050	89	2120	94	3	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2300	2020	88	2070	91	2	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2300	2160	94	2170	96	0	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2300	1950	85	2010	89	3	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2300	2010	87	2050	91	2	57-110/28
100-51-6	Benzyl Alcohol	ND		2300	1770	77	1770	78	0	51-102/34
91-58-7	2-Chloronaphthalene	ND		2300	1840	80	1910	84	4	57-95/28
106-47-8	4-Chloroaniline	ND		2300	1780	77	1820	80	2	19-85/34
218-01-9	Chrysene	ND		2300	2040	89	2080	92	2	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2300	1730	75	1790	79	3	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2300	1690	73	1740	77	3	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2300	1670	73	1700	75	2	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2300	1910	83	1950	86	2	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2300	1710	74	1710	76	0	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2300	1670	73	1670	74	0	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Compound	F95949-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2300	1680	73	1690	75	1	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2300	1870	81	1920	85	3	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2300	1890	82	1970	87	4	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2300	1890	82	1960	87	4	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2300	1980	86	2160	95	9	57-105/29
132-64-9	Dibenzofuran	ND		2300	1890	82	1950	86	3	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2300	1910	83	1940	86	2	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2300	2050	89	2030	90	1	59-117/28
84-66-2	Diethyl phthalate	ND		2300	1940	84	1960	87	1	59-106/27
131-11-3	Dimethyl phthalate	ND		2300	1910	83	1940	86	2	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2300	2000	87	2050	91	2	57-111/29
206-44-0	Fluoranthene	ND		2300	1930	84	1940	86	1	60-110/32
86-73-7	Fluorene	ND		2300	1910	83	1970	87	3	60-99/30
118-74-1	Hexachlorobenzene	ND		2300	1970	86	2000	88	2	58-103/27
87-68-3	Hexachlorobutadiene	ND		2300	1710	74	1780	79	4	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2300	1750	76	1860	82	6	36-94/41
67-72-1	Hexachloroethane	ND		2300	1660	72	1680	74	1	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2300	1970	86	2070	91	5	57-104/33
78-59-1	Isophorone	ND		2300	1480	64	1510	67	2	58-97/30
91-57-6	2-Methylnaphthalene	ND		2300	1730	75	1750	77	1	57-103/32
88-74-4	2-Nitroaniline	ND		2300	1910	83	1970	87	3	53-106/29
99-09-2	3-Nitroaniline	ND		2300	1760	76	1790	79	2	29-85/31
100-01-6	4-Nitroaniline	ND		2300	1870	81	1910	84	2	49-104/31
91-20-3	Naphthalene	ND		2300	1650	72	1710	76	4	54-93/32
98-95-3	Nitrobenzene	ND		2300	1690	73	1740	77	3	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2300	1710	74	1680	74	2	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2300	1980	86	2030	90	2	53-107/28
85-01-8	Phenanthrene	ND		2300	1980	86	2020	89	2	61-103/32
129-00-0	Pyrene	ND		2300	2040	89	2090	92	2	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2300	1700	74	1760	78	3	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F95949-3	Limits
367-12-4	2-Fluorophenol	68%	70%	52%	40-102%
4165-62-2	Phenol-d5	72%	73%	56%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95948-5

CAS No.	Surrogate Recoveries	MS	MSD	F95949-3	Limits
118-79-6	2,4,6-Tribromophenol	83%	85%	65%	42-108%
4165-60-0	Nitrobenzene-d5	70%	73%	55%	40-105%
321-60-8	2-Fluorobiphenyl	77%	80%	58%	43-107%
1718-51-0	Terphenyl-d14	89%	91%	84%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3058-MB	QR070693.D	1	08/18/12	MM	n/a	n/a	GQR3058

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	56-136%
98-08-8	aaa-Trifluorotoluene	105%	61-121%

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3058-BS	QR070692.D	1	08/18/12	MM	n/a	n/a	GQR3058

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.9	95	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	56-136%
98-08-8	aaa-Trifluorotoluene	104%	61-121%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96009-4MS	QR070718.D	1	08/19/12	MM	n/a	n/a	GQR3058
F96009-4MSD	QR070719.D	1	08/19/12	MM	n/a	n/a	GQR3058
F96009-4 [a]	QR070697.D	1	08/18/12	MM	n/a	n/a	GQR3058

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	F96009-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		30	29.4	98	30.4	101	3	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96009-4	Limits
460-00-4	4-Bromofluorobenzene	102%	107%	106%	56-136%
98-08-8	aaa-Trifluorotoluene	105%	106%	105%	61-121%

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

8.3.1

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109589.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	44-126%
2051-24-3	Decachlorobiphenyl	95%	39-157%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109643.D	1	08/23/12	MV	08/21/12	OP43219	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	44-126%
2051-24-3	Decachlorobiphenyl	101%	39-157%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YR415.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	99%	49-108%

Method Blank Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YY31589.D	1	08/30/12	SJL	08/24/12	OP43265	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	113%* [a]	49-108%

(a) Outside control limits. Suspected double surrogate; however, sample was ND.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-BS	ST109588.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	118	89	69-117
11096-82-5	Aroclor 1260	133	122	92	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	44-126%
2051-24-3	Decachlorobiphenyl	92%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-BS	YR414.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	37.7	113*	64-102
	TPH (> C22-C36)	33.3	34.0	102	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	108%	49-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MS	ST109593.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
OP43219-MSD	ST109594.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
F95702-2	ST109592.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	F95702-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	20	U	159	139	88	136	85	2	69-117/26
11096-82-5	Aroclor 1260	20	U	159	142	89	139	87	2	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F95702-2	Limits
877-09-8	Tetrachloro-m-xylene	91%	88%	93%	44-126%
2051-24-3	Decachlorobiphenyl	92%	89%	89%	39-157%

9.3.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95948
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MS	YR440.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
OP43265-MSD	YR441.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
F96003-3	YR439.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

CAS No.	Compound	F96003-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		48.3	50.8	105*	51.0	106*	0	64-102/32
	TPH (> C22-C36)	ND		48.3	48.8	101	46.6	97	5	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
84-15-1	o-Terphenyl	103%	105%	97%	49-108%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	-0.095	<10
Antimony	1.0	.05	.1	-0.040	<1.0
Arsenic	0.50	.05	.1	-0.15	<0.50
Barium	10	.05	.5	0.0050	<10
Beryllium	0.25	.005	.05	-0.0050	<0.25
Cadmium	0.20	.005	.05	-0.010	<0.20
Calcium	250	2.5	5	2.0	<250
Chromium	0.50	.05	.05	0.0050	<0.50
Cobalt	2.5	.05	.05	-0.020	<2.5
Copper	1.3	.05	.1	-0.095	<1.3
Iron	15	1.7	1.7	1.7	<15
Lead	1.0	.05	.05	-0.025	<1.0
Magnesium	250	2.5	5	-1.1	<250
Manganese	0.75	.05	.05	0.025	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.015	<2.0
Potassium	500	2.5	25	0.42	<500
Selenium	1.0	.1	.2	-0.015	<1.0
Silver	0.50	.05	.05	-0.010	<0.50
Sodium	500	38	55	1.0	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	-0.055	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	0.0	<2.5
Zinc	1.0	.05	.25	0.12	<1.0

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			08/22/12					08/22/12	
Metal	F95948-1 Original	DUP	RPD	QC Limits	F95948-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	3200	4050 (a)	23.4*(b)	0-20	3200	5870 (a)	1280	208.3N(e	80-120
Antimony	0.58	0.0 (c)	200.0(d)	0-20	0.58	9.5 (c)	23.7	37.6N(e)	80-120
Arsenic	1.6	1.5 (a)	6.5	0-20	1.6	102 (a)	94.9	105.7	80-120
Barium	53.4	44.9 (a)	17.3	0-20	53.4	142 (a)	94.9	93.3	80-120
Beryllium	0.13	0.16 (a)	20.7 (d)	0-20	0.13	2.6 (a)	2.37	104.1	80-120
Cadmium	0.0	0.0 (c)	NC	0-20	0.0	1.6 (c)	2.37	67.4N(e)	80-120
Calcium	217000	156000	32.7*(b)	0-20	217000	126000	1190	-7667.6f	80-120
Chromium	5.8	3.5 (c)	49.5 (d)	0-20	5.8	11.9 (c)	9.49	64.2N(e)	80-120
Cobalt	1.1	1.2 (a)	8.7	0-20	1.1	25.2 (a)	23.7	101.5	80-120
Copper	3.5	2.3 (a)	41.4 (d)	0-20	3.5	14.3 (a)	11.9	91.0	80-120
Iron	3060	3280 (a)	6.9	0-20	3060	4840 (a)	1230	144.2N(e	80-120
Lead	1.6	1.6 (c)	0.0	0-20	1.6	22.2 (c)	23.7	86.8	80-120
Magnesium	3990	2520 (a)	45.2*(b)	0-20	3990	3490 (a)	1190	-42.1N(e	80-120
Manganese	84.9	60.9 (a)	32.9*(b)	0-20	84.9	134 (a)	23.7	206.9N(e	80-120
Molybdenum									
Nickel	3.5	2.9 (a)	18.8	0-20	3.5	27.0 (a)	23.7	99.0	80-120
Potassium	772	930 (a)	18.6	0-20	772	2280 (a)	1190	127.1N(e	80-120
Selenium	0.0	0.0 (c)	NC	0-20	0.0	87.8 (c)	94.9	92.5	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.3 (a)	2.37	96.9	80-120
Sodium	0.00	200 (a)	200.0(d)	0-20	0.00	1410 (a)	1190	118.8	80-120
Strontium									
Thallium	0.0	0.47 (c)	200.0(d)	0-20	0.0	75.6 (c)	94.9	79.6N(e)	80-120
Tin									
Titanium									
Vanadium	8.9	9.0 (a)	1.1	0-20	8.9	33.2 (a)	23.7	102.4	80-120
Zinc	12.4	9.7 (c)	24.4 (d)	0-20	12.4	31.6 (c)	23.7	80.9	80-120

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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) Sample dilution required due to sample matrix.
(b) High RPD due to possible sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) RPD acceptable due to low duplicate and sample concentrations.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(f) 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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F95948-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	3200	5430 (a)	1260	176.6N(b	7.8	20
Antimony	0.58	11.3 (c)	23.4	45.9N(b)	17.3	20
Arsenic	1.6	105 (a)	93.5	110.6	2.9	20
Barium	53.4	142 (a)	93.5	94.7	0.0	20
Beryllium	0.13	2.7 (a)	2.34	109.9	3.8	20
Cadmium	0.0	2.0 (c)	2.34	85.5	22.2 (d)	20
Calcium	217000	164000	1170	-4533.9e	26.2 (d)	20
Chromium	5.8	13.4 (c)	9.35	81.3	11.9	20
Cobalt	1.1	25.7 (a)	23.4	105.2	2.0	20
Copper	3.5	14.7 (a)	11.7	95.8	2.8	20
Iron	3060	4500 (a)	1220	118.4	7.3	20
Lead	1.6	25.4 (c)	23.4	101.8	13.4	20
Magnesium	3990	3580 (a)	1170	-35.1N(b	2.5	20
Manganese	84.9	86.9 (a)	23.4	8.6N (b)	42.6 (d)	20
Molybdenum						
Nickel	3.5	27.5 (a)	23.4	102.7	1.8	20
Potassium	772	2210 (a)	1170	123.0N(b	3.1	20
Selenium	0.0	105 (c)	93.5	112.3	17.8	20
Silver	0.0	2.3 (a)	2.34	98.4	0.0	20
Sodium	0.00	1460 (a)	1170	124.9N(b	3.5	20
Strontium						
Thallium	0.0	89.0 (c)	93.5	95.2	16.3	20
Tin						
Titanium						
Vanadium	8.9	32.5 (a)	23.4	100.9	2.1	20
Zinc	12.4	35.5 (c)	23.4	98.8	11.6	20

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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) Sample dilution required due to sample matrix.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) High RPD due to possible sample nonhomogeneity.
(e) 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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1470	1350	108.9	80-120
Antimony	25.7	25	102.8	80-120
Arsenic	101	100	101.0	80-120
Barium	109	100	109.0	80-120
Beryllium	2.8	2.5	112.0	80-120
Cadmium	2.6	2.5	104.0	80-120
Calcium	1380	1250	110.4	80-120
Chromium	11.0	10	110.0	80-120
Cobalt	26.8	25	107.2	80-120
Copper	13.3	12.5	106.4	80-120
Iron	1450	1300	111.5	80-120
Lead	24.2	25	96.8	80-120
Magnesium	1340	1250	107.2	80-120
Manganese	27.8	25	111.2	80-120
Molybdenum				
Nickel	27.1	25	108.4	80-120
Potassium	1330	1250	106.4	80-120
Selenium	99.4	100	99.4	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	1330	1250	106.4	80-120
Strontium				
Thallium	98.4	100	98.4	80-120
Tin				
Titanium				
Vanadium	26.1	25	104.4	80-120
Zinc	26.9	25	107.6	80-120

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F95948-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum	60800	61100	0.6	0-10
Antimony	11.1	62.4	462.2(a)	0-10
Arsenic	29.5	0.00	100.0(a)	0-10
Barium	1010	1030	1.2	0-10
Beryllium	2.40	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	4120000	4410000	7.0	0-10
Chromium	111	129	16.6 (a)	0-10
Cobalt	21.1	0.00	100.0(a)	0-10
Copper	65.8	63.2	4.0	0-10
Iron	58100	59600	2.7	0-10
Lead	30.4	0.00	100.0(a)	0-10
Magnesium	75700	77500	2.4	0-10
Manganese	1610	1640	2.0	0-10
Molybdenum				
Nickel	66.6	72.0	8.1	0-10
Potassium	14700	14900	1.5	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	169	168	0.2	0-10
Zinc	235	252	7.5	0-10

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F95948-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	60770	59554.6	57880	0.2	125	2500	-67.0*(a	80-120
Antimony	9.8	10	11.1	10.878	125.4	0.2	5	100	114.5	80-120
Arsenic	9.8	10	29.5	28.91	132	0.2	5	100	103.1	80-120
Barium	9.8	10	1013	992.74	1195	0.2	12.5	250	80.9	80-120
Beryllium	9.8	10	2.4	2.352	56.6	0.2	2.5	50	108.5	80-120
Cadmium	9.8	10	0	0	49.9	0.2	2.5	50	99.8	80-120
Calcium	9.8	10	4117000	4034660	3488000	0.2	250	5000	-10933.2*a	80-120
Chromium	9.8	10	110.5	108.29	151	0.2	2.5	50	85.4	80-120
Cobalt	9.8	10	21.1	20.678	72.8	0.2	2.5	50	104.2	80-120
Copper	9.8	10	65.8	64.484	169.3	0.2	5	100	104.8	80-120
Iron	9.8	10	58080	56918.4	56500	0.2	150	3000	-13.9*(a	80-120
Lead	9.8	10	30.4	29.792	83.3	0.2	2.5	50	107.0	80-120
Magnesium	9.8	10	75690	74176.2	74670	0.2	250	5000	9.9* (a)	80-120
Manganese	9.8	10	1611	1578.78	1525	0.2	2.5	50	-107.6*a	80-120
Molybdenum										
Nickel	9.8	10	66.6	65.268	166.9	0.2	5	100	101.6	80-120
Potassium	9.8	10	14650	14357	24270	0.2	500	10000	99.1	80-120
Selenium	9.8	10	0	0	109.4	0.2	5	100	109.4	80-120
Silver	9.8	10	0	0	47.5	0.2	2.5	50	95.0	80-120
Sodium	9.8	10	0	0	14650	0.2	500	10000	146.5*(a	80-120
Strontium										
Thallium	9.8	10	0	0	110.2	0.2	5	100	110.2	80-120
Tin										
Titanium										
Vanadium	9.8	10	168.8	165.424	202.5	0.2	2.5	50	74.2*(a)	80-120
Zinc	9.8	10	234.8	230.104	504	0.2	12.5	250	109.6	80-120

Associated samples MP23518: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23521
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	-0.0074	<0.083

Associated samples MP23521: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23521
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/22/12 08/22/12

Metal	F96138-1 Original	DUP	RPD	QC Limits	F96138-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	1.3	2.0 (a)	42.4*(b)	0-20	1.3	2.7 (a)	0.758	184.8N(c	80-120

Associated samples MP23521: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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) Above high standard.
(b) High RPD due to possible sample nonhomogeneity.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23521
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/22/12

Metal	F96138-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	1.3	3.1 (a)	0.71	253.4N(b	13.8	20

Associated samples MP23521: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

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) Above high standard.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23521
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.24	0.25	96.0	80-120

Associated samples MP23521: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95948
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23521
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/22/12

Metal	F96138-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	5.61	5.58	0.5	0-10

Associated samples MP23521: F95948-1, F95948-2, F95948-3, F95948-4, F95948-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.2.4

10

Southeast
ACCUTEST LABORATORIES

08/31/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F95949

Sampling Date: 08/15/12

Report to:

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Total number of pages in report: **108**

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.
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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F95949

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F95949-1	08/15/12	10:45	BP	08/16/12	SO	Soil	SS18-DP31-11
F95949-2	08/15/12	10:45	BP	08/16/12	SO	Soil	SS18-DP31-11-A
F95949-3	08/15/12	11:20	BP	08/16/12	SO	Soil	SS18-DP33-8-A
F95949-4	08/15/12	11:55	BP	08/16/12	SO	Soil	SS18-DP37-8
F95949-5	08/15/12	00:00	BP	08/16/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F95949

Site: Holloman AFB; SS18 **Report Date** 8/31/2012 10:10:39

4 Samples and 1 Trip Blank were collected on 08/15/2012 and were received at Accutest on 08/16/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F95949. 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: SO **Batch ID:** VG3023

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95938-8MS, F95938-8MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzyl Chloride are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Benzyl Chloride, Ethyl methacrylate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43263

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) F95949-3MS, F95949-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for Benzoic Acid are outside control limits for sample OP43263-MSD. Probable cause due to sample non-homogeneity.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3059

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43265

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for TPH (C10-C22) are outside control limits. SB recovery is biased high. Compound is non-detect in associated samples; therefore data integrity is not compromised.

MS/MSD Recovery(s) for TPH (C10-C22) are outside control limits. Probable cause due to matrix interference.

Sample(s) OP43265-MB has surrogates outside control limits.

OP43265-MB for o-Terphenyl: Outside control limits. Suspected double surrogate; however, sample was ND.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43265

F95949-1 for TPH (C10-C22): Associated BS recovery outside control limits.

F95949-2 for TPH (C10-C22): Associated BS recovery outside control limits.

F95949-3 for TPH (C10-C22): Associated BS recovery outside control limits.

F95949-4 for TPH (C10-C22): Associated BS recovery outside control limits.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43219

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) F95702-2MS, F95702-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

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) F95948-1DUP, F95948-1MS, F95948-1MSD, F95948-1PS, F95948-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Cadmium, Chromium, Iron, Magnesium, Manganese, Potassium, Thallium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Magnesium, Manganese, Potassium, Sodium are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium 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 Aluminum, Calcium, Magnesium, Manganese are outside control limits for sample MP23518-D1. High RPD due to possible sample non-homogeneity.

MP23518-D1 for Antimony: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Beryllium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Chromium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Copper: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Sodium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Thallium: RPD acceptable due to low duplicate and sample concentrations.

MP23518-D1 for Zinc: RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for MSD for Cadmium, Calcium, Manganese are outside control limits for sample MP23518-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Chromium, Cobalt, Lead are outside control limits for sample MP23518-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23518-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-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 6010C

Matrix: SO **Batch ID:** MP23518

MP23518-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23518-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F95949-1 for Aluminum: Sample dilution required due to sample matrix.

F95949-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Arsenic: Sample dilution required due to sample matrix.

F95949-1 for Barium: Sample dilution required due to sample matrix.

F95949-1 for Beryllium: Sample dilution required due to sample matrix.

F95949-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Cobalt: Sample dilution required due to sample matrix.

F95949-1 for Copper: Sample dilution required due to sample matrix.

F95949-1 for Iron: Sample dilution required due to sample matrix.

F95949-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Magnesium: Sample dilution required due to sample matrix.

F95949-1 for Manganese: Sample dilution required due to sample matrix.

F95949-1 for Nickel: Sample dilution required due to sample matrix.

F95949-1 for Potassium: Sample dilution required due to sample matrix.

F95949-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Silver: Sample dilution required due to sample matrix.

F95949-1 for Sodium: Sample dilution required due to sample matrix.

F95949-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F95949-1 for Vanadium: Sample dilution required due to sample matrix.

F95949-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Aluminum: Sample dilution required due to sample matrix.

F95949-2 for Antimony: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Arsenic: Sample dilution required due to sample matrix.

F95949-2 for Barium: Sample dilution required due to sample matrix.

F95949-2 for Beryllium: Sample dilution required due to sample matrix.

F95949-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Chromium: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Cobalt: Sample dilution required due to sample matrix.

F95949-2 for Copper: Sample dilution required due to sample matrix.

F95949-2 for Iron: Sample dilution required due to sample matrix.

F95949-2 for Magnesium: Sample dilution required due to sample matrix.

F95949-2 for Manganese: Sample dilution required due to sample matrix.

F95949-2 for Nickel: Sample dilution required due to sample matrix.

F95949-2 for Potassium: Sample dilution required due to sample matrix.

F95949-2 for Selenium: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Silver: Sample dilution required due to sample matrix.

F95949-2 for Sodium: Sample dilution required due to sample matrix.

F95949-2 for Thallium: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Lead: Elevated reporting limit(s) due to matrix interference.

F95949-2 for Vanadium: Sample dilution required due to sample matrix.

F95949-2 for Zinc: Elevated reporting limit(s) due to matrix interference.

F95949-3 for Aluminum: Sample dilution required due to sample matrix.

F95949-3 for Antimony: Elevated reporting limit(s) due to matrix interference.

F95949-3 for Arsenic: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23518

F95949-3 for Barium: Sample dilution required due to sample matrix.
F95949-3 for Beryllium: Sample dilution required due to sample matrix.
F95949-3 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F95949-3 for Chromium: Elevated reporting limit(s) due to matrix interference.
F95949-3 for Cobalt: Sample dilution required due to sample matrix.
F95949-3 for Copper: Sample dilution required due to sample matrix.
F95949-3 for Iron: Sample dilution required due to sample matrix.
F95949-3 for Lead: Elevated reporting limit(s) due to matrix interference.
F95949-3 for Magnesium: Sample dilution required due to sample matrix.
F95949-3 for Manganese: Sample dilution required due to sample matrix.
F95949-3 for Nickel: Sample dilution required due to sample matrix.
F95949-3 for Potassium: Sample dilution required due to sample matrix.
F95949-3 for Selenium: Elevated reporting limit(s) due to matrix interference.
F95949-3 for Silver: Sample dilution required due to sample matrix.
F95949-3 for Sodium: Sample dilution required due to sample matrix.
F95949-3 for Vanadium: Sample dilution required due to sample matrix.
F95949-3 for Thallium: Elevated reporting limit(s) due to matrix interference.
F95949-3 for Zinc: Elevated reporting limit(s) due to matrix interference.
F95949-4 for Aluminum: Sample dilution required due to sample matrix.
F95949-4 for Antimony: Sample dilution required due to sample matrix.
F95949-4 for Arsenic: Sample dilution required due to sample matrix.
F95949-4 for Barium: Sample dilution required due to sample matrix.
F95949-4 for Beryllium: Sample dilution required due to sample matrix.
F95949-4 for Cadmium: Sample dilution required due to sample matrix.
F95949-4 for Calcium: Sample dilution required due to sample matrix.
F95949-4 for Chromium: Sample dilution required due to sample matrix.
F95949-4 for Cobalt: Sample dilution required due to sample matrix.
F95949-4 for Copper: Sample dilution required due to sample matrix.
F95949-4 for Iron: Sample dilution required due to sample matrix.
F95949-4 for Lead: Sample dilution required due to sample matrix.
F95949-4 for Magnesium: Sample dilution required due to sample matrix.
F95949-4 for Manganese: Sample dilution required due to sample matrix.
F95949-4 for Nickel: Sample dilution required due to sample matrix.
F95949-4 for Potassium: Sample dilution required due to sample matrix.
F95949-4 for Selenium: Sample dilution required due to sample matrix.
F95949-4 for Silver: Sample dilution required due to sample matrix.
F95949-4 for Sodium: Sample dilution required due to sample matrix.
F95949-4 for Thallium: Sample dilution required due to sample matrix.
F95949-4 for Vanadium: Sample dilution required due to sample matrix.
F95949-4 for Zinc: Sample dilution required due to sample matrix.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23550

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) F96003-3DUP, F96003-3MS, F96003-3MSD, F96003-3SDL were used as the QC samples for metals.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23550-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51464

Sample(s) F96222-5DUP was used as the QC samples for Solids, Percent.

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: August 31, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F95949
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F95949-1	**SS18-DP31-11**					
1,1-Dichloroethane		2.7 J	5.0	1.1	ug/kg	SW846 8260B
1,1-Dichloroethylene		17.4	5.0	1.4	ug/kg	SW846 8260B
Tetrachloroethylene		2.6 J	5.0	1.0	ug/kg	SW846 8260B
Aluminum [a]		6300	48	5.7	mg/kg	SW846 6010C
Arsenic [a]		4.4	2.4	0.48	mg/kg	SW846 6010C
Barium [a]		62.0	48	2.4	mg/kg	SW846 6010C
Beryllium [a]		0.26 J	1.2	0.24	mg/kg	SW846 6010C
Calcium		139000	2400	48	mg/kg	SW846 6010C
Chromium [b]		4.7 J	4.8	0.48	mg/kg	SW846 6010C
Cobalt [a]		4.5 J	12	0.24	mg/kg	SW846 6010C
Copper [a]		4.2 J	5.9	0.48	mg/kg	SW846 6010C
Iron [a]		5480	71	7.8	mg/kg	SW846 6010C
Lead [b]		2.3 J	9.5	0.48	mg/kg	SW846 6010C
Magnesium [a]		3840	1200	24	mg/kg	SW846 6010C
Manganese [a]		378	3.6	0.24	mg/kg	SW846 6010C
Nickel [a]		8.3 J	9.5	0.24	mg/kg	SW846 6010C
Potassium [a]		1450 J	2400	120	mg/kg	SW846 6010C
Sodium [a]		1330 J	2400	260	mg/kg	SW846 6010C
Vanadium [a]		14.9	12	0.24	mg/kg	SW846 6010C
Zinc [b]		12.9	9.5	2.4	mg/kg	SW846 6010C
F95949-2	**SS18-DP31-11-A**					
1,1-Dichloroethane		2.5 J	5.6	1.2	ug/kg	SW846 8260B
1,1-Dichloroethylene		18.2	5.6	1.6	ug/kg	SW846 8260B
Aluminum [a]		503	57	6.8	mg/kg	SW846 6010C
Arsenic [a]		2.1 J	2.8	0.57	mg/kg	SW846 6010C
Barium [a]		13.1 J	57	2.8	mg/kg	SW846 6010C
Calcium		233000	2800	57	mg/kg	SW846 6010C
Copper [a]		2.6 J	7.1	0.57	mg/kg	SW846 6010C
Iron [a]		322	85	9.3	mg/kg	SW846 6010C
Magnesium [a]		4590	1400	28	mg/kg	SW846 6010C
Manganese [a]		7.9	4.2	0.28	mg/kg	SW846 6010C
Nickel [a]		0.80 J	11	0.28	mg/kg	SW846 6010C
Potassium [a]		164 J	2800	140	mg/kg	SW846 6010C
Vanadium [a]		12.4 J	14	0.28	mg/kg	SW846 6010C
F95949-3	**SS18-DP33-8-A**					
Aluminum [a]		3280	57	6.8	mg/kg	SW846 6010C
Arsenic [a]		3.0	2.8	0.57	mg/kg	SW846 6010C
Barium [a]		40.9 J	57	2.8	mg/kg	SW846 6010C
Calcium		198000	2800	57	mg/kg	SW846 6010C

Summary of Hits

Job Number: F95949
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium [b]		2.8 J	5.7	0.57	mg/kg	SW846 6010C
Cobalt [a]		0.95 J	14	0.28	mg/kg	SW846 6010C
Copper [a]		2.0 J	7.1	0.57	mg/kg	SW846 6010C
Iron [a]		2430	85	9.4	mg/kg	SW846 6010C
Lead [b]		1.8 J	11	0.57	mg/kg	SW846 6010C
Magnesium [a]		3940	1400	28	mg/kg	SW846 6010C
Manganese [a]		34.8	4.3	0.28	mg/kg	SW846 6010C
Nickel [a]		2.1 J	11	0.28	mg/kg	SW846 6010C
Potassium [a]		673 J	2800	140	mg/kg	SW846 6010C
Vanadium [a]		10.9 J	14	0.28	mg/kg	SW846 6010C
Zinc [b]		8.9 J	11	2.8	mg/kg	SW846 6010C
F95949-4	**SS18-DP37-8**					
Aluminum [a]		5440	65	7.8	mg/kg	SW846 6010C
Arsenic [a]		1.9 J	3.3	0.65	mg/kg	SW846 6010C
Barium [a]		52.6 J	65	3.3	mg/kg	SW846 6010C
Calcium [a]		162000	1600	33	mg/kg	SW846 6010C
Chromium [a]		4.8	3.3	0.33	mg/kg	SW846 6010C
Cobalt [a]		1.8 J	16	0.33	mg/kg	SW846 6010C
Copper [a]		2.6 J	8.2	0.65	mg/kg	SW846 6010C
Iron [a]		4350	98	11	mg/kg	SW846 6010C
Lead [a]		2.0 J	6.5	0.33	mg/kg	SW846 6010C
Magnesium [a]		4660	1600	33	mg/kg	SW846 6010C
Manganese [a]		69.3	4.9	0.33	mg/kg	SW846 6010C
Nickel [a]		4.5 J	13	0.33	mg/kg	SW846 6010C
Potassium [a]		1250 J	3300	160	mg/kg	SW846 6010C
Vanadium [a]		15.8 J	16	0.33	mg/kg	SW846 6010C
Zinc [a]		12.1	6.5	1.6	mg/kg	SW846 6010C

F95949-5 **TRIP BLANK**

No hits reported in this sample.

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081665.D	1	08/16/12	EP	n/a	n/a	VG3023
Run #2							

	Initial Weight
Run #1	6.59 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	2.7	5.0	1.1	ug/kg	J
75-35-4	1,1-Dichloroethylene	17.4	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	2.6	5.0	1.0	ug/kg	J
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	95%		59-148%
17060-07-0	1,2-Dichloroethane-D4	116%		77-123%

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025222.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	380	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	27	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	86	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	31	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	43	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	43	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	86	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	86	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	86	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	95	ug/kg	
67-72-1	Hexachloroethane	ND	220	43	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	43	ug/kg	
99-09-2	3-Nitroaniline	ND	220	43	ug/kg	
100-01-6	4-Nitroaniline	ND	220	43	ug/kg	
91-20-3	Naphthalene	ND	220	34	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		40-102%
4165-62-2	Phenol-d5	68%		41-100%
118-79-6	2,4,6-Tribromophenol	76%		42-108%

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070741.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.80 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.2	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109609.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.7	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.7	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.7	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.7	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		44-126%
2051-24-3	Decachlorobiphenyl	95%		39-157%

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:	SS18-DP31-11		
Lab Sample ID:	F95949-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	76.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR430.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.3	mg/kg	
	TPH (> C22-C36)	ND	11	4.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		49-108%

(a) Associated BS recovery outside 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: SS18-DP31-11
Lab Sample ID: F95949-1
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/15/12
Date Received: 08/16/12
Percent Solids: 76.2

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	6300	48	5.7	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	0.95 U	9.5	0.95	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	4.4	2.4	0.48	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	62.0	48	2.4	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.26 J	1.2	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.48 U	1.9	0.48	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	139000	2400	48	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	4.7 J	4.8	0.48	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	4.5 J	12	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	4.2 J	5.9	0.48	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	5480	71	7.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	2.3 J	9.5	0.48	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3840	1200	24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	378	3.6	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	8.3 J	9.5	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1450 J	2400	120	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	1.9 U	9.5	1.9	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.24 U	2.4	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	1330 J	2400	260	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.2 U	4.8	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	14.9	12	0.24	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	12.9	9.5	2.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10076
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081666.D	1	08/16/12	EP	n/a	n/a	VG3023
Run #2							

	Initial Weight
Run #1	6.55 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	22	ug/kg	
75-05-8	Acetonitrile	ND	56	20	ug/kg	
107-02-8	Acrolein	ND	28	12	ug/kg	
107-13-1	Acrylonitrile	ND	28	13	ug/kg	
107-05-1	Allyl chloride	ND	28	5.6	ug/kg	
71-43-2	Benzene	ND	5.6	1.7	ug/kg	
100-44-7	Benzyl Chloride	ND	5.6	1.7	ug/kg	
108-86-1	Bromobenzene	ND	5.6	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	1.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	1.2	ug/kg	
75-25-2	Bromoform	ND	5.6	1.7	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.2	ug/kg	
67-66-3	Chloroform	ND	5.6	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.6	1.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	2.5	5.6	1.2	ug/kg	J
75-35-4	1,1-Dichloroethylene	18.2	5.6	1.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.6	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	1.6	ug/kg	

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.6	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.6	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	28	5.6	ug/kg	
76-13-1	Freon 113	ND	5.6	1.9	ug/kg	
591-78-6	2-Hexanone	ND	28	6.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	2.2	ug/kg	
110-54-3	Hexane	ND	5.6	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	6.2	ug/kg	
126-98-7	Methacrylonitrile	ND	28	10	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.6	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.6	1.7	ug/kg	
75-09-2	Methylene chloride	ND	11	5.2	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	6.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	28	5.6	ug/kg	
107-12-0	Propionitrile	ND	56	18	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	1.6	ug/kg	
100-42-5	Styrene	ND	5.6	2.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.3	ug/kg	

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	1.1	ug/kg	
108-88-3	Toluene	ND	5.6	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	28	16	ug/kg	
	m,p-Xylene	ND	11	2.5	ug/kg	
95-47-6	o-Xylene	ND	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	96%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	114%		77-123%

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025223.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1200	430	ug/kg	
95-57-8	2-Chlorophenol	ND	240	24	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	31	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	490	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	490	97	ug/kg	
95-48-7	2-Methylphenol	ND	240	24	ug/kg	
	3&4-Methylphenol	ND	240	35	ug/kg	
88-75-5	2-Nitrophenol	ND	240	24	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	190	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	290	ug/kg	
108-95-2	Phenol	ND	240	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	24	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	24	ug/kg	
83-32-9	Acenaphthene	ND	240	24	ug/kg	
208-96-8	Acenaphthylene	ND	240	24	ug/kg	
120-12-7	Anthracene	ND	240	24	ug/kg	
92-87-5	Benzidine	ND	2400	490	ug/kg	
56-55-3	Benzo(a)anthracene	ND	240	24	ug/kg	
50-32-8	Benzo(a)pyrene	ND	240	24	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	240	24	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	240	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	240	24	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	24	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	49	ug/kg	
100-51-6	Benzyl Alcohol	ND	240	49	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	49	ug/kg	
106-47-8	4-Chloroaniline	ND	240	24	ug/kg	
218-01-9	Chrysene	ND	240	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	24	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	24	ug/kg	

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	24	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	49	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	49	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	49	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	240	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	240	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	490	49	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	240	24	ug/kg	
132-64-9	Dibenzofuran	ND	240	24	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	490	97	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	49	ug/kg	
84-66-2	Diethyl phthalate	ND	490	97	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	49	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	490	97	ug/kg	
206-44-0	Fluoranthene	ND	240	24	ug/kg	
86-73-7	Fluorene	ND	240	24	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	49	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	240	110	ug/kg	
67-72-1	Hexachloroethane	ND	240	49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	24	ug/kg	
78-59-1	Isophorone	ND	240	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	240	24	ug/kg	
88-74-4	2-Nitroaniline	ND	240	49	ug/kg	
99-09-2	3-Nitroaniline	ND	240	49	ug/kg	
100-01-6	4-Nitroaniline	ND	240	49	ug/kg	
91-20-3	Naphthalene	ND	240	39	ug/kg	
98-95-3	Nitrobenzene	ND	240	24	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	24	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	24	ug/kg	
85-01-8	Phenanthrene	ND	240	24	ug/kg	
129-00-0	Pyrene	ND	240	24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		40-102%
4165-62-2	Phenol-d5	63%		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		40-105%
321-60-8	2-Fluorobiphenyl	64%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070742.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.76 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.8	3.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109610.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	9.6	ug/kg	
11104-28-2	Aroclor 1221	ND	24	12	ug/kg	
11141-16-5	Aroclor 1232	ND	24	12	ug/kg	
53469-21-9	Aroclor 1242	ND	24	9.6	ug/kg	
12672-29-6	Aroclor 1248	ND	24	9.6	ug/kg	
11097-69-1	Aroclor 1254	ND	24	9.6	ug/kg	
11096-82-5	Aroclor 1260	ND	24	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		44-126%
2051-24-3	Decachlorobiphenyl	101%		39-157%

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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	68.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR431.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	12	4.9	mg/kg	
	TPH (> C22-C36)	ND	12	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP31-11-A		
Lab Sample ID:	F95949-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	68.0
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	503	57	6.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	2.1 J	2.8	0.57	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	13.1 J	57	2.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.28 U	1.4	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.57 U	2.3	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	233000	2800	57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	0.57 U	5.7	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	0.28 U	14	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.6 J	7.1	0.57	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	322	85	9.3	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.57 U	11	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	4590	1400	28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	7.9	4.2	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.012 U	0.12	0.012	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	0.80 J	11	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	164 J	2800	140	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.3 U	11	2.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.28 U	2.8	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	310 U	2800	310	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.5 U	5.7	1.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	12.4 J	14	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	2.8 U	11	2.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10076
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081667.D	1	08/16/12	EP	n/a	n/a	VG3023
Run #2							

	Initial Weight
Run #1	6.65 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	21	ug/kg	
75-05-8	Acetonitrile	ND	51	19	ug/kg	
107-02-8	Acrolein	ND	26	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.1	ug/kg	
71-43-2	Benzene	ND	5.1	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.1	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.1	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	1.1	ug/kg	
75-25-2	Bromoform	ND	5.1	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.1	ug/kg	
67-66-3	Chloroform	ND	5.1	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.1	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.1	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.1	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.1	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.1	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.1	1.4	ug/kg	

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.1	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.1	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.1	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.1	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.1	ug/kg	
76-13-1	Freon 113	ND	5.1	1.7	ug/kg	
591-78-6	2-Hexanone	ND	26	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	2.1	ug/kg	
110-54-3	Hexane	ND	5.1	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.7	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.5	ug/kg	
74-83-9	Methyl bromide	ND	5.1	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.1	2.1	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.1	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.1	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.1	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.1	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.1	ug/kg	
107-12-0	Propionitrile	ND	51	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	1.4	ug/kg	
100-42-5	Styrene	ND	5.1	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.2	ug/kg	

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	1.0	ug/kg	
108-88-3	Toluene	ND	5.1	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	26	14	ug/kg	
	m,p-Xylene	ND	10	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.1	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	96%		59-148%
17060-07-0	1,2-Dichloroethane-D4	108%		77-123%

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	400	ug/kg	
95-57-8	2-Chlorophenol	ND	230	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	29	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	460	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	460	92	ug/kg	
95-48-7	2-Methylphenol	ND	230	23	ug/kg	
	3&4-Methylphenol	ND	230	33	ug/kg	
88-75-5	2-Nitrophenol	ND	230	23	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	280	ug/kg	
108-95-2	Phenol	ND	230	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	23	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	23	ug/kg	
83-32-9	Acenaphthene	ND	230	23	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	23	ug/kg	
92-87-5	Benzidine	ND	2300	460	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	23	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	230	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	230	46	ug/kg	
100-51-6	Benzyl Alcohol	ND	230	46	ug/kg	
91-58-7	2-Chloronaphthalene	ND	230	46	ug/kg	
106-47-8	4-Chloroaniline	ND	230	23	ug/kg	
218-01-9	Chrysene	ND	230	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	230	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	230	23	ug/kg	

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	230	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	46	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	46	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	46	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	230	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	230	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	460	46	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	23	ug/kg	
132-64-9	Dibenzofuran	ND	230	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	460	92	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	230	46	ug/kg	
84-66-2	Diethyl phthalate	ND	460	92	ug/kg	
131-11-3	Dimethyl phthalate	ND	230	46	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	460	92	ug/kg	
206-44-0	Fluoranthene	ND	230	23	ug/kg	
86-73-7	Fluorene	ND	230	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	230	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	46	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	230	100	ug/kg	
67-72-1	Hexachloroethane	ND	230	46	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	23	ug/kg	
78-59-1	Isophorone	ND	230	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	23	ug/kg	
88-74-4	2-Nitroaniline	ND	230	46	ug/kg	
99-09-2	3-Nitroaniline	ND	230	46	ug/kg	
100-01-6	4-Nitroaniline	ND	230	46	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	230	23	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	230	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	23	ug/kg	
85-01-8	Phenanthrene	ND	230	23	ug/kg	
129-00-0	Pyrene	ND	230	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		40-102%
4165-62-2	Phenol-d5	56%		41-100%
118-79-6	2,4,6-Tribromophenol	65%		42-108%

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		40-105%
321-60-8	2-Fluorobiphenyl	58%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070743.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.05 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.5	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109611.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	9.0	ug/kg	
12672-29-6	Aroclor 1248	ND	22	9.0	ug/kg	
11097-69-1	Aroclor 1254	ND	22	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	22	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		44-126%
2051-24-3	Decachlorobiphenyl	103%		39-157%

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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	73.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR432.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	12	4.6	mg/kg	
	TPH (> C22-C36)	ND	12	4.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP33-8-A		
Lab Sample ID:	F95949-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
		Percent Solids:	73.1
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3280	57	6.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	3.0	2.8	0.57	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	40.9 J	57	2.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.28 U	1.4	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.57 U	2.3	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	198000	2800	57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	2.8 J	5.7	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	0.95 J	14	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.0 J	7.1	0.57	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	2430	85	9.4	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	1.8 J	11	0.57	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3940	1400	28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	34.8	4.3	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	2.1 J	11	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	673 J	2800	140	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.3 U	11	2.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.28 U	2.8	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	310 U	2800	310	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.5 U	5.7	1.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	10.9 J	14	0.28	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	8.9 J	11	2.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10076
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23518
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081668.D	1	08/16/12	EP	n/a	n/a	VG3023
Run #2							

	Initial Weight
Run #1	6.13 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	22	ug/kg	
75-05-8	Acetonitrile	ND	54	20	ug/kg	
107-02-8	Acrolein	ND	27	12	ug/kg	
107-13-1	Acrylonitrile	ND	27	12	ug/kg	
107-05-1	Allyl chloride	ND	27	5.4	ug/kg	
71-43-2	Benzene	ND	5.4	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.4	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.4	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	1.2	ug/kg	
75-25-2	Bromoform	ND	5.4	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.2	ug/kg	
67-66-3	Chloroform	ND	5.4	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.4	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	27	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	1.5	ug/kg	

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:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.4	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	27	5.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.4	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.4	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.4	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	27	5.4	ug/kg	
76-13-1	Freon 113	ND	5.4	1.8	ug/kg	
591-78-6	2-Hexanone	ND	27	5.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.4	2.2	ug/kg	
110-54-3	Hexane	ND	5.4	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	6.0	ug/kg	
126-98-7	Methacrylonitrile	ND	27	10	ug/kg	
74-83-9	Methyl bromide	ND	5.4	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.4	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.4	1.6	ug/kg	
75-09-2	Methylene chloride	ND	11	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	6.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	27	5.4	ug/kg	
107-12-0	Propionitrile	ND	54	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	1.5	ug/kg	
100-42-5	Styrene	ND	5.4	2.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.4	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.3	ug/kg	

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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:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	1.1	ug/kg	
108-88-3	Toluene	ND	5.4	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	27	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	27	15	ug/kg	
	m,p-Xylene	ND	11	2.4	ug/kg	
95-47-6	o-Xylene	ND	5.4	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	96%		71-130%
460-00-4	4-Bromofluorobenzene	100%		59-148%
17060-07-0	1,2-Dichloroethane-D4	110%		77-123%

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Report of Analysis

Client Sample ID:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025227.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	88	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	440	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	44	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	44	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	44	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	44	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	44	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	440	88	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	44	ug/kg	
84-66-2	Diethyl phthalate	ND	440	88	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	44	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	88	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	44	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	97	ug/kg	
67-72-1	Hexachloroethane	ND	220	44	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	44	ug/kg	
99-09-2	3-Nitroaniline	ND	220	44	ug/kg	
100-01-6	4-Nitroaniline	ND	220	44	ug/kg	
91-20-3	Naphthalene	ND	220	35	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		40-102%
4165-62-2	Phenol-d5	65%		41-100%
118-79-6	2,4,6-Tribromophenol	75%		42-108%

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Report of Analysis

Client Sample ID:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

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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:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070744.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.76 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.5	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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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:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109612.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.8	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.8	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.8	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		44-126%
2051-24-3	Decachlorobiphenyl	83%		39-157%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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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:	SS18-DP37-8		
Lab Sample ID:	F95949-4	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/16/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	75.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR433.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.4	mg/kg	
	TPH (> C22-C36)	ND	11	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-108%

(a) Associated BS recovery outside control limits.

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS18-DP37-8
Lab Sample ID: F95949-4
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/15/12
Date Received: 08/16/12
Percent Solids: 75.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5440	65	7.8	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Antimony [a]	0.65 U	6.5	0.65	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.9 J	3.3	0.65	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Barium [a]	52.6 J	65	3.3	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Beryllium [a]	0.33 U	1.6	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cadmium [a]	0.33 U	1.3	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Calcium [a]	162000	1600	33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Chromium [a]	4.8	3.3	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cobalt [a]	1.8 J	16	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.6 J	8.2	0.65	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Iron [a]	4350	98	11	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.0 J	6.5	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Magnesium [a]	4660	1600	33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Manganese [a]	69.3	4.9	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [2]	SW846 7471B [4]
Nickel [a]	4.5 J	13	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Potassium [a]	1250 J	3300	160	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Selenium [a]	1.3 U	6.5	1.3	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Silver [a]	0.33 U	3.3	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Sodium [a]	360 U	3300	360	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	0.85 U	3.3	0.85	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Vanadium [a]	15.8 J	16	0.33	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]
Zinc [a]	12.1	6.5	1.6	mg/kg	5	08/22/12	08/22/12	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA10076
(2) Instrument QC Batch: MA10090
(3) Prep QC Batch: MP23518
(4) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F95949-5	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0081669.D	1	08/16/12	EP	n/a	n/a	VG3023
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95949-5	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F95949-5	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/16/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	101%		71-130%
460-00-4	4-Bromofluorobenzene	95%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F95949

Page: 1 of 1

Project No: 11-0020

COC Number(1): 08152012-2

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP31-11		15-08-2012	1045	9 - 11	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP31-11-A		15-08-2012	1045	9 - 11	FD		SO	6	X	X	X	X	X	X	X					
3	SS18-DP33-8-A		15-08-2012	1120	6 - 8	FD		SO	6	X	X	X	X	X	X	X					
4	SS18-DP39-8		15-08-2012	1155	6 8	N		SO	6	X	X	X	X	X	X	X					
5	Trip Blank					TB		SQ												2-059-001	
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	08/15/12	1330	1. FX		
2. FX	8/16/12	10:00	2. [illegible]	8/16/12	10:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7987 5048 6833

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.4

5.1

5

F95949: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F95949 CLIENT: NATIONVIEW PROJECT: SS-18 SUPP. ACM

DATE/TIME RECEIVED: 08/16/12 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 5048 6833

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
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 4 + TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.4

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 08/16/12 REVIEWER SIGNATURE/DATE 08-16-12

NF 12/10 receipt confirmation 122910.xls

5.1 5

F95949: Chain of Custody
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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

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-MB	G0081646.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-MB	G0081646.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-MB	G0081646.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	80-121%
2037-26-5	Toluene-D8	97%	71-130%
460-00-4	4-Bromofluorobenzene	103%	59-148%
17060-07-0	1,2-Dichloroethane-D4	96%	77-123%

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-BS	G0081645.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	255	102	61-144
75-05-8	Acetonitrile	500	489	98	59-139
107-02-8	Acrolein	250	295	118	27-156
107-13-1	Acrylonitrile	250	247	99	55-144
107-05-1	Allyl chloride	50	53.2	106	41-152
71-43-2	Benzene	50	52.7	105	78-130
100-44-7	Benzyl Chloride	50	50.3	101	74-130
108-86-1	Bromobenzene	50	54.9	110	78-123
74-97-5	Bromochloromethane	50	48.7	97	72-122
75-27-4	Bromodichloromethane	50	54.5	109	73-122
75-25-2	Bromoform	50	49.6	99	70-139
104-51-8	n-Butylbenzene	50	52.6	105	80-138
135-98-8	sec-Butylbenzene	50	57.8	116	82-132
98-06-6	tert-Butylbenzene	50	55.7	111	79-130
108-90-7	Chlorobenzene	50	55.7	111	83-122
75-00-3	Chloroethane	50	44.2	88	61-153
67-66-3	Chloroform	50	50.2	100	79-129
544-10-5	1-Chlorohexane	50	49.2	98	85-137
95-49-8	o-Chlorotoluene	50	56.3	113	77-123
106-43-4	p-Chlorotoluene	50	58.8	118	78-129
110-75-8	2-Chloroethyl vinyl ether	250	253	101	52-142
75-15-0	Carbon disulfide	50	43.9	88	61-142
56-23-5	Carbon tetrachloride	50	54.1	108	79-135
75-34-3	1,1-Dichloroethane	50	51.0	102	77-132
75-35-4	1,1-Dichloroethylene	50	39.5	79	66-132
563-58-6	1,1-Dichloropropene	50	53.1	106	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	55.7	111	67-129
106-93-4	1,2-Dibromoethane	50	52.3	105	77-126
107-06-2	1,2-Dichloroethane	50	54.3	109	78-129
78-87-5	1,2-Dichloropropane	50	52.5	105	74-127
142-28-9	1,3-Dichloropropane	50	50.9	102	78-118
594-20-7	2,2-Dichloropropane	50	50.2	100	80-137
124-48-1	Dibromochloromethane	50	54.9	110	78-117
75-71-8	Dichlorodifluoromethane	50	60.6	121	35-162
156-59-2	cis-1,2-Dichloroethylene	50	52.3	105	74-123
10061-01-5	cis-1,3-Dichloropropene	50	51.1	102	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-BS	G0081645.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	55.5	111	71-126
541-73-1	m-Dichlorobenzene	50	58.4	117	82-126
95-50-1	o-Dichlorobenzene	50	55.6	111	83-123
106-46-7	p-Dichlorobenzene	50	52.6	105	84-124
156-60-5	trans-1,2-Dichloroethylene	50	50.9	102	77-129
10061-02-6	trans-1,3-Dichloropropene	50	55.6	111	87-131
100-41-4	Ethylbenzene	50	52.2	104	82-124
97-63-2	Ethyl methacrylate	50	52.7	105	78-118
76-13-1	Freon 113	50	50.2	100	62-147
591-78-6	2-Hexanone	250	281	112	67-130
87-68-3	Hexachlorobutadiene	50	56.5	113	77-150
110-54-3	Hexane	50	45.3	91	65-147
98-82-8	Isopropylbenzene	50	55.1	110	82-133
99-87-6	p-Isopropyltoluene	50	55.6	111	82-132
108-10-1	4-Methyl-2-pentanone	250	258	103	69-125
126-98-7	Methacrylonitrile	500	553	111	70-138
74-83-9	Methyl bromide	50	45.7	91	60-146
74-87-3	Methyl chloride	50	51.4	103	58-163
74-88-4	Methyl iodide	50	50.0	100	66-128
80-62-6	Methyl methacrylate	50	57.7	115	73-125
74-95-3	Methylene bromide	50	52.6	105	75-128
75-09-2	Methylene chloride	50	53.7	107	62-140
78-93-3	Methyl ethyl ketone	250	269	108	66-134
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	70-131
91-20-3	Naphthalene	50	51.8	104	59-143
76-01-7	Pentachloroethane	50	64.9	130	64-156
107-12-0	Propionitrile	500	527	105	73-133
103-65-1	n-Propylbenzene	50	56.2	112	78-129
100-42-5	Styrene	50	53.6	107	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	56.5	113	81-121
71-55-6	1,1,1-Trichloroethane	50	50.8	102	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	53.6	107	70-128
79-00-5	1,1,2-Trichloroethane	50	51.4	103	76-118
87-61-6	1,2,3-Trichlorobenzene	50	51.2	102	78-136
96-18-4	1,2,3-Trichloropropane	50	56.6	113	74-125
120-82-1	1,2,4-Trichlorobenzene	50	52.5	105	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3023-BS	G0081645.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	53.4	107	77-129
108-67-8	1,3,5-Trimethylbenzene	50	52.5	105	79-129
127-18-4	Tetrachloroethylene	50	52.9	106	79-132
108-88-3	Toluene	50	52.3	105	80-123
79-01-6	Trichloroethylene	50	51.0	102	78-132
75-69-4	Trichlorofluoromethane	50	44.6	89	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	48.3	97	74-138
75-01-4	Vinyl chloride	50	52.1	104	60-145
108-05-4	Vinyl Acetate	250	238	95	25-164
	m,p-Xylene	100	110	110	82-128
95-47-6	o-Xylene	50	54.9	110	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-121%
2037-26-5	Toluene-D8	98%	71-130%
460-00-4	4-Bromofluorobenzene	103%	59-148%
17060-07-0	1,2-Dichloroethane-D4	95%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-8MS	G0081663.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8MSD	G0081664.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8 [a]	G0081662.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	F95938-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		313	280	90	286	92	2	61-144/29
75-05-8	Acetonitrile	ND		625	500	80	495	79	1	59-139/30
107-02-8	Acrolein	ND		313	147	47	105	34	33	27-156/39
107-13-1	Acrylonitrile	ND		313	259	83	253	81	2	55-144/24
107-05-1	Allyl chloride	ND		62.5	53.6	86	49.5	79	8	41-152/24
71-43-2	Benzene	ND		62.5	67.1	107	63.8	102	5	78-130/25
100-44-7	Benzyl Chloride	ND		62.5	39.6	63*	40.3	64*	2	74-130/28
108-86-1	Bromobenzene	ND		62.5	65.5	105	64.8	104	1	78-123/30
74-97-5	Bromochloromethane	ND		62.5	58.7	94	56.2	90	4	72-122/23
75-27-4	Bromodichloromethane	ND		62.5	65.3	104	64.0	102	2	73-122/25
75-25-2	Bromoform	ND		62.5	54.5	87	53.1	85	3	70-139/26
104-51-8	n-Butylbenzene	ND		62.5	59.1	95	56.1	90	5	80-138/31
135-98-8	sec-Butylbenzene	ND		62.5	70.1	112	65.3	104	7	82-132/29
98-06-6	tert-Butylbenzene	ND		62.5	72.6	116	66.3	106	9	79-130/29
108-90-7	Chlorobenzene	ND		62.5	69.5	111	67.7	108	3	83-122/23
75-00-3	Chloroethane	ND		62.5	79.3	127	70.5	113	12	61-153/31
67-66-3	Chloroform	ND		62.5	68.9	110	64.7	104	6	79-129/27
544-10-5	1-Chlorohexane	ND		62.5	55.1	88	53.5	86	3	85-137/29
95-49-8	o-Chlorotoluene	ND		62.5	67.9	109	66.6	107	2	77-123/31
106-43-4	p-Chlorotoluene	ND		62.5	70.0	112	68.3	109	2	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		313	304	97	304	97	0	52-142/25
75-15-0	Carbon disulfide	ND		62.5	62.1	99	57.6	92	8	61-142/27
56-23-5	Carbon tetrachloride	ND		62.5	59.6	95	56.0	90	6	79-135/29
75-34-3	1,1-Dichloroethane	ND		62.5	65.3	104	62.6	100	4	77-132/26
75-35-4	1,1-Dichloroethylene	ND		62.5	71.1	114	66.3	106	7	66-132/27
563-58-6	1,1-Dichloropropene	ND		62.5	66.5	106	63.6	102	4	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		62.5	58.9	94	55.5	89	6	67-129/29
106-93-4	1,2-Dibromoethane	ND		62.5	60.1	96	60.6	97	1	77-126/24
107-06-2	1,2-Dichloroethane	ND		62.5	67.6	108	66.3	106	2	78-129/24
78-87-5	1,2-Dichloropropane	ND		62.5	63.2	101	61.4	98	3	74-127/27
142-28-9	1,3-Dichloropropane	ND		62.5	62.7	100	59.3	95	6	78-118/26
594-20-7	2,2-Dichloropropane	ND		62.5	64.9	104	59.4	95	9	80-137/28
124-48-1	Dibromochloromethane	ND		62.5	62.3	100	61.1	98	2	78-117/27
75-71-8	Dichlorodifluoromethane	ND		62.5	73.5	118	71.8	115	2	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		62.5	66.4	106	62.2	100	7	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		62.5	60.3	96	58.5	94	3	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-8MS	G0081663.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8MSD	G0081664.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8 [a]	G0081662.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	F95938-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		62.5	64.9	104	64.3	103	1	71-126/28
541-73-1	m-Dichlorobenzene	ND		62.5	66.5	106	66.5	106	0	82-126/29
95-50-1	o-Dichlorobenzene	ND		62.5	65.1	104	62.5	100	4	83-123/28
106-46-7	p-Dichlorobenzene	ND		62.5	58.8	94	59.7	96	2	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		62.5	64.8	104	60.3	96	7	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		62.5	67.4	108	62.8	100	7	87-131/27
100-41-4	Ethylbenzene	ND		62.5	64.6	103	61.4	98	5	82-124/25
97-63-2	Ethyl methacrylate	ND		62.5	49.2	79	47.6	76*	3	78-118/30
76-13-1	Freon 113	ND		62.5	66.1	106	66.5	106	1	62-147/29
591-78-6	2-Hexanone	ND		313	240	77	231	74	4	67-130/29
87-68-3	Hexachlorobutadiene	ND		62.5	55.7	89	54.5	87	2	77-150/36
110-54-3	Hexane	ND		62.5	49.4	79	47.3	76	4	65-147/27
98-82-8	Isopropylbenzene	ND		62.5	70.2	112	66.5	106	5	82-133/27
99-87-6	p-Isopropyltoluene	ND		62.5	66.8	107	62.0	99	7	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		313	278	89	274	88	1	69-125/24
126-98-7	Methacrylonitrile	ND		625	551	88	546	87	1	70-138/22
74-83-9	Methyl bromide	ND		62.5	86.1	138	73.9	118	15	60-146/31
74-87-3	Methyl chloride	ND		62.5	78.6	126	74.7	120	5	58-163/26
74-88-4	Methyl iodide	ND		62.5	62.6	100	60.5	97	3	66-128/27
80-62-6	Methyl methacrylate	ND		62.5	70.8	113	67.0	107	6	73-125/24
74-95-3	Methylene bromide	ND		62.5	63.0	101	58.8	94	7	75-128/26
75-09-2	Methylene chloride	ND		62.5	66.7	107	64.2	103	4	62-140/25
78-93-3	Methyl ethyl ketone	ND		313	275	88	266	85	3	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		62.5	57.8	92	55.7	89	4	70-131/25
91-20-3	Naphthalene	ND		62.5	52.9	85	51.1	82	3	59-143/31
76-01-7	Pentachloroethane	ND		62.5	52.7	84	49.8	80	6	64-156/37
107-12-0	Propionitrile	ND		625	538	86	559	89	4	73-133/23
103-65-1	n-Propylbenzene	ND		62.5	71.2	114	66.4	106	7	78-129/29
100-42-5	Styrene	ND		62.5	63.7	102	61.9	99	3	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		62.5	68.5	110	65.2	104	5	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		62.5	67.6	108	63.6	102	6	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		62.5	62.2	100	58.7	94	6	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		62.5	64.9	104	60.1	96	8	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		62.5	52.9	85	50.3	80	5	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		62.5	64.7	104	61.3	98	5	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		62.5	55.5	89	52.3	84	6	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95938-8MS	G0081663.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8MSD	G0081664.D	1	08/16/12	EP	n/a	n/a	VG3023
F95938-8 [a]	G0081662.D	1	08/16/12	EP	n/a	n/a	VG3023

The QC reported here applies to the following samples: **Method:** SW846 8260B

F95949-1, F95949-2, F95949-3, F95949-4, F95949-5

CAS No.	Compound	F95938-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		62.5	62.8	100	61.4	98	2	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		62.5	65.3	104	61.6	99	6	79-129/31
127-18-4	Tetrachloroethylene	ND		62.5	77.9	125	77.5	124	1	79-132/27
108-88-3	Toluene	ND		62.5	66.5	106	63.2	101	5	80-123/26
79-01-6	Trichloroethylene	ND		62.5	67.7	108	64.3	103	5	78-132/28
75-69-4	Trichlorofluoromethane	ND		62.5	77.6	124	71.0	114	9	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		62.5	52.3	84	52.2	84	0	74-138/30
75-01-4	Vinyl chloride	ND		62.5	86.6	139	79.9	128	8	60-145/29
108-05-4	Vinyl Acetate	ND		313	103	33	88.4	28	15	25-164/35
	m,p-Xylene	ND		125	140	112	133	106	5	82-128/25
95-47-6	o-Xylene	ND		62.5	69.8	112	67.7	108	3	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F95938-8	Limits
1868-53-7	Dibromofluoromethane	99%	97%	91%	80-121%
2037-26-5	Toluene-D8	99%	100%	96%	71-130%
460-00-4	4-Bromofluorobenzene	99%	98%	96%	59-148%
17060-07-0	1,2-Dichloroethane-D4	93%	93%	102%	77-123%

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	40-102%
4165-62-2	Phenol-d5	72%	41-100%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	X025220.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	81%	42-108%
4165-60-0	Nitrobenzene-d5	69%	40-105%
321-60-8	2-Fluorobiphenyl	73%	43-107%
1718-51-0	Terphenyl-d14	101%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	64%	40-102%
4165-62-2	Phenol-d5	72%	41-100%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	T003776.D	1	08/27/12	FS	08/24/12	OP43263	ST196

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	78%	42-108%
4165-60-0	Nitrobenzene-d5	68%	40-105%
321-60-8	2-Fluorobiphenyl	74%	43-107%
1718-51-0	Terphenyl-d14	96%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	57%	40-102%
4165-62-2	Phenol-d5	62%	41-100%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MB	L059252.D	1	08/29/12	NAF	08/24/12	OP43263	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	74%	42-108%
4165-60-0	Nitrobenzene-d5	62%	40-105%
321-60-8	2-Fluorobiphenyl	66%	43-107%
1718-51-0	Terphenyl-d14	84%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/kg	

(a) No TICs detected.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2170	65	44-116
95-57-8	2-Chlorophenol	1670	1140	68	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1230	74	59-102
120-83-2	2,4-Dichlorophenol	1670	1210	73	60-101
105-67-9	2,4-Dimethylphenol	1670	1100	66	49-89
51-28-5	2,4-Dinitrophenol	3330	2530	76	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3000	90	58-109
95-48-7	2-Methylphenol	1670	1110	67	53-94
	3&4-Methylphenol	3330	2220	67	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2710	81	56-106
87-86-5	Pentachlorophenol	3330	2770	83	50-115
108-95-2	Phenol	1670	1180	71	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1280	77	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1260	76	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1420	85	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1440	86	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1430	86	56-103
207-08-9	Benzo(k)fluoranthene	1670	1520	91	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1350	81	60-104
85-68-7	Butyl benzyl phthalate	1670	1410	85	57-110
100-51-6	Benzyl Alcohol	1670	1190	71	51-102
91-58-7	2-Chloronaphthalene	1670	1250	75	57-95
106-47-8	4-Chloroaniline	1670	1230	74	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1170	70	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1080	65	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1110	67	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1300	78	60-101
95-50-1	1,2-Dichlorobenzene	1670	1110	67	47-91
541-73-1	1,3-Dichlorobenzene	1670	1080	65	45-86
106-46-7	1,4-Dichlorobenzene	1670	1100	66	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1320	79	59-103
606-20-2	2,6-Dinitrotoluene	1670	1320	79	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1350	81	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1430	86	57-105
132-64-9	Dibenzofuran	1670	1310	79	58-103
84-74-2	Di-n-butyl phthalate	1670	1350	81	59-105
117-84-0	Di-n-octyl phthalate	1670	1420	85	59-117
84-66-2	Diethyl phthalate	1670	1350	81	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1410	85	57-111
206-44-0	Fluoranthene	1670	1350	81	60-110
86-73-7	Fluorene	1670	1300	78	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1150	69	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1160	70	36-94
67-72-1	Hexachloroethane	1670	1080	65	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1410	85	57-104
78-59-1	Isophorone	1670	992	60	58-97
91-57-6	2-Methylnaphthalene	1670	1170	70	57-103
88-74-4	2-Nitroaniline	1670	1320	79	53-106
99-09-2	3-Nitroaniline	1670	1250	75	29-85
100-01-6	4-Nitroaniline	1670	1370	82	49-104
91-20-3	Naphthalene	1670	1130	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1110	67	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1400	84	53-107
85-01-8	Phenanthrene	1670	1410	85	61-103
129-00-0	Pyrene	1670	1440	86	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1140	68	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	64%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-BS	X025219.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	73%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	F95949-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4610	873	19*	1320	29*	41*	44-116/36
95-57-8	2-Chlorophenol	ND		2300	1690	73	1730	76	2	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2300	1790	78	1820	80	2	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2300	1810	79	1850	82	2	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2300	1620	70	1660	73	2	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4610	2770	60	2950	65	6	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4610	4080	89	4160	92	2	58-109/37
95-48-7	2-Methylphenol	ND		2300	1680	73	1690	75	1	53-94/29
	3&4-Methylphenol	ND		4610	3360	73	3370	74	0	54-95/31
88-75-5	2-Nitrophenol	ND		2300	1790	78	1820	80	2	55-96/30
100-02-7	4-Nitrophenol	ND		4610	3730	81	3800	84	2	56-106/29
87-86-5	Pentachlorophenol	ND		4610	3890	84	4010	89	3	50-115/33
108-95-2	Phenol	ND		2300	1760	76	1790	79	2	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2300	1930	84	2010	89	4	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2300	1910	83	1970	87	3	60-100/27
83-32-9	Acenaphthene	ND		2300	1900	83	1940	86	2	59-97/29
208-96-8	Acenaphthylene	ND		2300	1880	82	1940	86	3	58-98/30
120-12-7	Anthracene	ND		2300	1910	83	1950	86	2	61-104/29
92-87-5	Benzidine	ND		2300	891	39	1010	45	13	10-151/50
56-55-3	Benzo(a)anthracene	ND		2300	2000	87	2050	91	2	60-106/31
50-32-8	Benzo(a)pyrene	ND		2300	1890	82	1950	86	3	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2300	2050	89	2120	94	3	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2300	2020	88	2070	91	2	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2300	2160	94	2170	96	0	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2300	1950	85	2010	89	3	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2300	2010	87	2050	91	2	57-110/28
100-51-6	Benzyl Alcohol	ND		2300	1770	77	1770	78	0	51-102/34
91-58-7	2-Chloronaphthalene	ND		2300	1840	80	1910	84	4	57-95/28
106-47-8	4-Chloroaniline	ND		2300	1780	77	1820	80	2	19-85/34
218-01-9	Chrysene	ND		2300	2040	89	2080	92	2	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2300	1730	75	1790	79	3	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2300	1690	73	1740	77	3	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2300	1670	73	1700	75	2	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2300	1910	83	1950	86	2	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2300	1710	74	1710	76	0	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2300	1670	73	1670	74	0	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	F95949-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2300	1680	73	1690	75	1	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2300	1870	81	1920	85	3	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2300	1890	82	1970	87	4	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2300	1890	82	1960	87	4	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2300	1980	86	2160	95	9	57-105/29
132-64-9	Dibenzofuran	ND		2300	1890	82	1950	86	3	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2300	1910	83	1940	86	2	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2300	2050	89	2030	90	1	59-117/28
84-66-2	Diethyl phthalate	ND		2300	1940	84	1960	87	1	59-106/27
131-11-3	Dimethyl phthalate	ND		2300	1910	83	1940	86	2	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2300	2000	87	2050	91	2	57-111/29
206-44-0	Fluoranthene	ND		2300	1930	84	1940	86	1	60-110/32
86-73-7	Fluorene	ND		2300	1910	83	1970	87	3	60-99/30
118-74-1	Hexachlorobenzene	ND		2300	1970	86	2000	88	2	58-103/27
87-68-3	Hexachlorobutadiene	ND		2300	1710	74	1780	79	4	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2300	1750	76	1860	82	6	36-94/41
67-72-1	Hexachloroethane	ND		2300	1660	72	1680	74	1	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2300	1970	86	2070	91	5	57-104/33
78-59-1	Isophorone	ND		2300	1480	64	1510	67	2	58-97/30
91-57-6	2-Methylnaphthalene	ND		2300	1730	75	1750	77	1	57-103/32
88-74-4	2-Nitroaniline	ND		2300	1910	83	1970	87	3	53-106/29
99-09-2	3-Nitroaniline	ND		2300	1760	76	1790	79	2	29-85/31
100-01-6	4-Nitroaniline	ND		2300	1870	81	1910	84	2	49-104/31
91-20-3	Naphthalene	ND		2300	1650	72	1710	76	4	54-93/32
98-95-3	Nitrobenzene	ND		2300	1690	73	1740	77	3	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2300	1710	74	1680	74	2	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2300	1980	86	2030	90	2	53-107/28
85-01-8	Phenanthrene	ND		2300	1980	86	2020	89	2	61-103/32
129-00-0	Pyrene	ND		2300	2040	89	2090	92	2	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2300	1700	74	1760	78	3	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F95949-3	Limits
367-12-4	2-Fluorophenol	68%	70%	52%	40-102%
4165-62-2	Phenol-d5	72%	73%	56%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43263-MS	X025225.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
OP43263-MSD	X025226.D	1	08/25/12	FS	08/24/12	OP43263	SX1221
F95949-3	X025224.D	1	08/25/12	FS	08/24/12	OP43263	SX1221

The QC reported here applies to the following samples: **Method:** SW846 8270D

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Surrogate Recoveries	MS	MSD	F95949-3	Limits
118-79-6	2,4,6-Tribromophenol	83%	85%	65%	42-108%
4165-60-0	Nitrobenzene-d5	70%	73%	55%	40-105%
321-60-8	2-Fluorobiphenyl	77%	80%	58%	43-107%
1718-51-0	Terphenyl-d14	89%	91%	84%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3059-MB	QR070727.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	56-136%
98-08-8	aaa-Trifluorotoluene	106%	61-121%

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3059-BS	QR070726.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.8	99	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	61-121%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96003-3MS	QR070752.D	1	08/20/12	MM	n/a	n/a	GQR3059
F96003-3MSD	QR070753.D	1	08/20/12	MM	n/a	n/a	GQR3059
F96003-3	QR070751.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	F96003-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		31.3	28.1	90	28.3	90	1	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	102%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	103%	105%	61-121%

8.3.1

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109589.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	44-126%
2051-24-3	Decachlorobiphenyl	95%	39-157%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109643.D	1	08/23/12	MV	08/21/12	OP43219	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	44-126%
2051-24-3	Decachlorobiphenyl	101%	39-157%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YR415.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	99%	49-108%

Method Blank Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YY31589.D	1	08/30/12	SJL	08/24/12	OP43265	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	113%* [a]	49-108%

(a) Outside control limits. Suspected double surrogate; however, sample was ND.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-BS	ST109588.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	118	89	69-117
11096-82-5	Aroclor 1260	133	122	92	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	44-126%
2051-24-3	Decachlorobiphenyl	92%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-BS	YR414.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	37.7	113*	64-102
	TPH (> C22-C36)	33.3	34.0	102	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	108%	49-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MS	ST109593.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
OP43219-MSD	ST109594.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
F95702-2	ST109592.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	F95702-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	20	U	159	139	88	136	85	2	69-117/26
11096-82-5	Aroclor 1260	20	U	159	142	89	139	87	2	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F95702-2	Limits
877-09-8	Tetrachloro-m-xylene	91%	88%	93%	44-126%
2051-24-3	Decachlorobiphenyl	92%	89%	89%	39-157%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F95949
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MS	YR440.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
OP43265-MSD	YR441.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
F96003-3	YR439.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F95949-1, F95949-2, F95949-3, F95949-4

CAS No.	Compound	F96003-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		48.3	50.8	105*	51.0	106*	0	64-102/32
	TPH (> C22-C36)	ND		48.3	48.8	101	46.6	97	5	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
84-15-1	o-Terphenyl	103%	105%	97%	49-108%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	-0.095	<10
Antimony	1.0	.05	.1	-0.040	<1.0
Arsenic	0.50	.05	.1	-0.15	<0.50
Barium	10	.05	.5	0.0050	<10
Beryllium	0.25	.005	.05	-0.0050	<0.25
Cadmium	0.20	.005	.05	-0.010	<0.20
Calcium	250	2.5	5	2.0	<250
Chromium	0.50	.05	.05	0.0050	<0.50
Cobalt	2.5	.05	.05	-0.020	<2.5
Copper	1.3	.05	.1	-0.095	<1.3
Iron	15	1.7	1.7	1.7	<15
Lead	1.0	.05	.05	-0.025	<1.0
Magnesium	250	2.5	5	-1.1	<250
Manganese	0.75	.05	.05	0.025	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.015	<2.0
Potassium	500	2.5	25	0.42	<500
Selenium	1.0	.1	.2	-0.015	<1.0
Silver	0.50	.05	.05	-0.010	<0.50
Sodium	500	38	55	1.0	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	-0.055	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	0.0	<2.5
Zinc	1.0	.05	.25	0.12	<1.0

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12 08/22/12

Metal	F95948-1 Original	DUP	RPD	QC Limits	F95948-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	3200	4050 (a)	23.4*(b)	0-20	3200	5870 (a)	1280	208.3N(e	80-120
Antimony	0.58	0.0 (c)	200.0(d)	0-20	0.58	9.5 (c)	23.7	37.6N(e)	80-120
Arsenic	1.6	1.5 (a)	6.5	0-20	1.6	102 (a)	94.9	105.7	80-120
Barium	53.4	44.9 (a)	17.3	0-20	53.4	142 (a)	94.9	93.3	80-120
Beryllium	0.13	0.16 (a)	20.7 (d)	0-20	0.13	2.6 (a)	2.37	104.1	80-120
Cadmium	0.0	0.0 (c)	NC	0-20	0.0	1.6 (c)	2.37	67.4N(e)	80-120
Calcium	217000	156000	32.7*(b)	0-20	217000	126000	1190	-7667.6f	80-120
Chromium	5.8	3.5 (c)	49.5 (d)	0-20	5.8	11.9 (c)	9.49	64.2N(e)	80-120
Cobalt	1.1	1.2 (a)	8.7	0-20	1.1	25.2 (a)	23.7	101.5	80-120
Copper	3.5	2.3 (a)	41.4 (d)	0-20	3.5	14.3 (a)	11.9	91.0	80-120
Iron	3060	3280 (a)	6.9	0-20	3060	4840 (a)	1230	144.2N(e	80-120
Lead	1.6	1.6 (c)	0.0	0-20	1.6	22.2 (c)	23.7	86.8	80-120
Magnesium	3990	2520 (a)	45.2*(b)	0-20	3990	3490 (a)	1190	-42.1N(e	80-120
Manganese	84.9	60.9 (a)	32.9*(b)	0-20	84.9	134 (a)	23.7	206.9N(e	80-120
Molybdenum									
Nickel	3.5	2.9 (a)	18.8	0-20	3.5	27.0 (a)	23.7	99.0	80-120
Potassium	772	930 (a)	18.6	0-20	772	2280 (a)	1190	127.1N(e	80-120
Selenium	0.0	0.0 (c)	NC	0-20	0.0	87.8 (c)	94.9	92.5	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.3 (a)	2.37	96.9	80-120
Sodium	0.00	200 (a)	200.0(d)	0-20	0.00	1410 (a)	1190	118.8	80-120
Strontium									
Thallium	0.0	0.47 (c)	200.0(d)	0-20	0.0	75.6 (c)	94.9	79.6N(e)	80-120
Tin									
Titanium									
Vanadium	8.9	9.0 (a)	1.1	0-20	8.9	33.2 (a)	23.7	102.4	80-120
Zinc	12.4	9.7 (c)	24.4 (d)	0-20	12.4	31.6 (c)	23.7	80.9	80-120

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

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) Sample dilution required due to sample matrix.
(b) High RPD due to possible sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) RPD acceptable due to low duplicate and sample concentrations.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(f) 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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F95948-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	3200	5430 (a)	1260	176.6N(b	7.8	20
Antimony	0.58	11.3 (c)	23.4	45.9N(b)	17.3	20
Arsenic	1.6	105 (a)	93.5	110.6	2.9	20
Barium	53.4	142 (a)	93.5	94.7	0.0	20
Beryllium	0.13	2.7 (a)	2.34	109.9	3.8	20
Cadmium	0.0	2.0 (c)	2.34	85.5	22.2 (d)	20
Calcium	217000	164000	1170	-4533.9e	26.2 (d)	20
Chromium	5.8	13.4 (c)	9.35	81.3	11.9	20
Cobalt	1.1	25.7 (a)	23.4	105.2	2.0	20
Copper	3.5	14.7 (a)	11.7	95.8	2.8	20
Iron	3060	4500 (a)	1220	118.4	7.3	20
Lead	1.6	25.4 (c)	23.4	101.8	13.4	20
Magnesium	3990	3580 (a)	1170	-35.1N(b	2.5	20
Manganese	84.9	86.9 (a)	23.4	8.6N (b)	42.6 (d)	20
Molybdenum						
Nickel	3.5	27.5 (a)	23.4	102.7	1.8	20
Potassium	772	2210 (a)	1170	123.0N(b	3.1	20
Selenium	0.0	105 (c)	93.5	112.3	17.8	20
Silver	0.0	2.3 (a)	2.34	98.4	0.0	20
Sodium	0.00	1460 (a)	1170	124.9N(b	3.5	20
Strontium						
Thallium	0.0	89.0 (c)	93.5	95.2	16.3	20
Tin						
Titanium						
Vanadium	8.9	32.5 (a)	23.4	100.9	2.1	20
Zinc	12.4	35.5 (c)	23.4	98.8	11.6	20

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

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) Sample dilution required due to sample matrix.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) High RPD due to possible sample nonhomogeneity.
(e) 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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1470	1350	108.9	80-120
Antimony	25.7	25	102.8	80-120
Arsenic	101	100	101.0	80-120
Barium	109	100	109.0	80-120
Beryllium	2.8	2.5	112.0	80-120
Cadmium	2.6	2.5	104.0	80-120
Calcium	1380	1250	110.4	80-120
Chromium	11.0	10	110.0	80-120
Cobalt	26.8	25	107.2	80-120
Copper	13.3	12.5	106.4	80-120
Iron	1450	1300	111.5	80-120
Lead	24.2	25	96.8	80-120
Magnesium	1340	1250	107.2	80-120
Manganese	27.8	25	111.2	80-120
Molybdenum				
Nickel	27.1	25	108.4	80-120
Potassium	1330	1250	106.4	80-120
Selenium	99.4	100	99.4	80-120
Silver	2.4	2.5	96.0	80-120
Sodium	1330	1250	106.4	80-120
Strontium				
Thallium	98.4	100	98.4	80-120
Tin				
Titanium				
Vanadium	26.1	25	104.4	80-120
Zinc	26.9	25	107.6	80-120

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F95948-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum	60800	61100	0.6	0-10
Antimony	11.1	62.4	462.2(a)	0-10
Arsenic	29.5	0.00	100.0(a)	0-10
Barium	1010	1030	1.2	0-10
Beryllium	2.40	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	4120000	4410000	7.0	0-10
Chromium	111	129	16.6 (a)	0-10
Cobalt	21.1	0.00	100.0(a)	0-10
Copper	65.8	63.2	4.0	0-10
Iron	58100	59600	2.7	0-10
Lead	30.4	0.00	100.0(a)	0-10
Magnesium	75700	77500	2.4	0-10
Manganese	1610	1640	2.0	0-10
Molybdenum				
Nickel	66.6	72.0	8.1	0-10
Potassium	14700	14900	1.5	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	169	168	0.2	0-10
Zinc	235	252	7.5	0-10

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23518
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F95948-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	60770	59554.6	57880	0.2	125	2500	-67.0*(a	80-120
Antimony	9.8	10	11.1	10.878	125.4	0.2	5	100	114.5	80-120
Arsenic	9.8	10	29.5	28.91	132	0.2	5	100	103.1	80-120
Barium	9.8	10	1013	992.74	1195	0.2	12.5	250	80.9	80-120
Beryllium	9.8	10	2.4	2.352	56.6	0.2	2.5	50	108.5	80-120
Cadmium	9.8	10	0	0	49.9	0.2	2.5	50	99.8	80-120
Calcium	9.8	10	4117000	4034660	3488000	0.2	250	5000	-10933.2*a	80-120
Chromium	9.8	10	110.5	108.29	151	0.2	2.5	50	85.4	80-120
Cobalt	9.8	10	21.1	20.678	72.8	0.2	2.5	50	104.2	80-120
Copper	9.8	10	65.8	64.484	169.3	0.2	5	100	104.8	80-120
Iron	9.8	10	58080	56918.4	56500	0.2	150	3000	-13.9*(a	80-120
Lead	9.8	10	30.4	29.792	83.3	0.2	2.5	50	107.0	80-120
Magnesium	9.8	10	75690	74176.2	74670	0.2	250	5000	9.9* (a)	80-120
Manganese	9.8	10	1611	1578.78	1525	0.2	2.5	50	-107.6*a	80-120
Molybdenum										
Nickel	9.8	10	66.6	65.268	166.9	0.2	5	100	101.6	80-120
Potassium	9.8	10	14650	14357	24270	0.2	500	10000	99.1	80-120
Selenium	9.8	10	0	0	109.4	0.2	5	100	109.4	80-120
Silver	9.8	10	0	0	47.5	0.2	2.5	50	95.0	80-120
Sodium	9.8	10	0	0	14650	0.2	500	10000	146.5*(a	80-120
Strontium										
Thallium	9.8	10	0	0	110.2	0.2	5	100	110.2	80-120
Tin										
Titanium										
Vanadium	9.8	10	168.8	165.424	202.5	0.2	2.5	50	74.2*(a)	80-120
Zinc	9.8	10	234.8	230.104	504	0.2	12.5	250	109.6	80-120

Associated samples MP23518: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23550: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0052	0.0051	1.9	0-20	0.0052	0.40	0.34	116.2	80-120

Associated samples MP23550: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96003-3 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0052	0.39	0.34	113.3	2.5	20

Associated samples MP23550: F95949-1, F95949-2, F95949-3, F95949-4

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: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23550: F95949-1, F95949-2, F95949-3, F95949-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F95949
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96003-3 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0463	0.00	100.0(a)	0-10

Associated samples MP23550: F95949-1, F95949-2, F95949-3, F95949-4

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

09/12/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F96003

Sampling Dates: 08/15/12 - 08/16/12

Report to:

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Total number of pages in report: **95**

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

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96003

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96003-1	08/15/12	13:00	ZBBP	08/17/12	SO	Soil	SS18-DP35-5
F96003-2	08/15/12	13:30	ZBBP	08/17/12	SO	Soil	SS18-DP36-7
F96003-3	08/16/12	09:10	ZBBP	08/17/12	SO	Soil	SS18-DP44-7
F96003-3D	08/16/12	09:10	ZBBP	08/17/12	SO	Soil Dup/MSD	SS18-DP44-7
F96003-3S	08/16/12	09:10	ZBBP	08/17/12	SO	Soil Matrix Spike	SS18-DP44-7
F96003-4	08/15/12	00:00	ZBBP	08/17/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96003

Site: Holloman AFB; SS18 **Report Date** 9/12/2012 10:37:19 AM

3 Samples and 1 Trip Blank were collected between 08/15/2012 and 08/16/2012 and were received at Accutest on 08/17/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F96003. 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: SO **Batch ID:** VY208

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloropropene, 1,2,4-Trichlorobenzene, 1-Chlorohexane, 2,2-Dichloropropane, Benzyl Chloride, cis-1,3-Dichloropropene, Ethyl methacrylate, Hexachlorobutadiene, Hexane, n-Butylbenzene, p-Dichlorobenzene, p-Isopropyltoluene, Pentachloroethane, trans-1,3-Dichloropropene, Trans-1,4-Dichloro-2-Butene, Vinyl Acetate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromoethane, 1,3,5-Trimethylbenzene, 1-Chlorohexane, 2,2-Dichloropropane, Benzyl Chloride, Carbon tetrachloride, cis-1,3-Dichloropropene, cis-1,4-Dichloro-2-Butene, Ethyl methacrylate, Ethylbenzene, Hexachlorobutadiene, Hexane, m-Dichlorobenzene, n-Butylbenzene, p-Dichlorobenzene, p-Isopropyltoluene, Pentachloroethane, sec-Butylbenzene, trans-1,3-Dichloropropene, Trans-1,4-Dichloro-2-Butene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

F96003-1: Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.

F96003-2: Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43287

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3059

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43265

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.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43265

Sample(s) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for TPH (C10-C22) are outside control limits.

MS/MSD Recovery(s) for TPH (C10-C22) are outside control limits. Probable cause due to matrix interference.

Sample(s) OP43265-MB has surrogates outside control limits.

OP43265-MB for o-Terphenyl: Outside control limits. Suspected double surrogate; however, sample was ND.

F96003-1: Confirmed by re-extraction and reanalysis beyond hold time. Sample results indicate possible sample non-homogeneity.

F96003-1 for TPH (C10-C22): Associated BS recovery outside control limits.

F96003-2 for TPH (C10-C22): Associated BS recovery outside control limits.

F96003-3 for TPH (C10-C22): Associated BS recovery outside control limits.

Matrix: SO **Batch ID:** OP43447

The following samples were re-extracted outside of holding time for method SW846 8015C: F96003-1

F96003-1: Confirmation run.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43219

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) F95702-2MS, F95702-2MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP43235

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23522

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.

Matrix Spike Recovery(s) for Antimony, Cadmium, Thallium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Manganese are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium 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 Beryllium, Lead, Sodium are outside control limits for sample MP23522-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Chromium, Cobalt, Lead, Sodium, Zinc are outside control limits for sample MP23522-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23522-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP23522-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-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 6010C

Matrix: SO **Batch ID:** MP23522

MP23522-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F96003-1 for Aluminum: Sample dilution required due to sample matrix.

F96003-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Arsenic: Sample dilution required due to sample matrix.

F96003-1 for Barium: Sample dilution required due to sample matrix.

F96003-1 for Beryllium: Sample dilution required due to sample matrix.

F96003-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Cobalt: Sample dilution required due to sample matrix.

F96003-1 for Copper: Sample dilution required due to sample matrix.

F96003-1 for Iron: Sample dilution required due to sample matrix.

F96003-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Magnesium: Sample dilution required due to sample matrix.

F96003-1 for Manganese: Sample dilution required due to sample matrix.

F96003-1 for Nickel: Sample dilution required due to sample matrix.

F96003-1 for Potassium: Sample dilution required due to sample matrix.

F96003-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Silver: Sample dilution required due to sample matrix.

F96003-1 for Sodium: Sample dilution required due to sample matrix.

F96003-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96003-1 for Vanadium: Sample dilution required due to sample matrix.

F96003-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Aluminum: Sample dilution required due to sample matrix.

F96003-2 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Arsenic: Sample dilution required due to sample matrix.

F96003-2 for Barium: Sample dilution required due to sample matrix.

F96003-2 for Beryllium: Sample dilution required due to sample matrix.

F96003-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Cobalt: Sample dilution required due to sample matrix.

F96003-2 for Copper: Sample dilution required due to sample matrix.

F96003-2 for Iron: Sample dilution required due to sample matrix.

F96003-2 for Lead: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Magnesium: Sample dilution required due to sample matrix.

F96003-2 for Manganese: Sample dilution required due to sample matrix.

F96003-2 for Nickel: Sample dilution required due to sample matrix.

F96003-2 for Potassium: Sample dilution required due to sample matrix.

F96003-2 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Silver: Sample dilution required due to sample matrix.

F96003-2 for Sodium: Sample dilution required due to sample matrix.

F96003-2 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96003-2 for Vanadium: Sample dilution required due to sample matrix.

F96003-2 for Zinc: Elevated reporting limit(s) due to matrix interference.

F96003-3 for Aluminum: Sample dilution required due to sample matrix.

F96003-3 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96003-3 for Arsenic: Sample dilution required due to sample matrix.

F96003-3 for Barium: Sample dilution required due to sample matrix.

F96003-3 for Beryllium: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23522

F96003-3 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96003-3 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96003-3 for Cobalt: Sample dilution required due to sample matrix.
F96003-3 for Copper: Sample dilution required due to sample matrix.
F96003-3 for Iron: Sample dilution required due to sample matrix.
F96003-3 for Lead: Elevated reporting limit(s) due to matrix interference.
F96003-3 for Magnesium: Sample dilution required due to sample matrix.
F96003-3 for Manganese: Sample dilution required due to sample matrix.
F96003-3 for Nickel: Sample dilution required due to sample matrix.
F96003-3 for Potassium: Sample dilution required due to sample matrix.
F96003-3 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96003-3 for Silver: Sample dilution required due to sample matrix.
F96003-3 for Sodium: Sample dilution required due to sample matrix.
F96003-3 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96003-3 for Vanadium: Sample dilution required due to sample matrix.
F96003-3 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23550

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) F96003-3DUP, F96003-3MS, F96003-3MSD, F96003-3SDL were used as the QC samples for metals.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23550-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51415

Sample(s) F96003-3DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN51477

Sample(s) F96003-2DUP was used as the QC samples for Solids, Percent.

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: September 12, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96003
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12 thru 08/16/12

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96003-1	**SS18-DP35-5**					
cis-1,2-Dichloroethylene [a]		2.4 J	5.6	1.7	ug/kg	SW846 8260B
TPH (C10-C22) [b]		4.56 J	11	4.5	mg/kg	SW846 8015C
TPH (> C22-C36) [c]		7.91 J	11	4.5	mg/kg	SW846 8015C
Aluminum [d]		1210	66	7.9	mg/kg	SW846 6010C
Arsenic [d]		1.2 J	3.3	0.66	mg/kg	SW846 6010C
Barium [d]		28.9 J	66	3.3	mg/kg	SW846 6010C
Calcium		215000	3300	66	mg/kg	SW846 6010C
Chromium [e]		0.78 J	6.6	0.66	mg/kg	SW846 6010C
Cobalt [d]		0.45 J	16	0.33	mg/kg	SW846 6010C
Copper [d]		2.3 J	8.2	0.66	mg/kg	SW846 6010C
Iron [d]		993	98	11	mg/kg	SW846 6010C
Lead [e]		0.71 J	13	0.66	mg/kg	SW846 6010C
Magnesium [d]		913 J	1600	33	mg/kg	SW846 6010C
Manganese [d]		11.5	4.9	0.33	mg/kg	SW846 6010C
Nickel [d]		1.2 J	13	0.33	mg/kg	SW846 6010C
Potassium [d]		314 J	3300	160	mg/kg	SW846 6010C
Vanadium [d]		4.4 J	16	0.33	mg/kg	SW846 6010C
Zinc [e]		4.0 J	13	3.3	mg/kg	SW846 6010C
F96003-2	**SS18-DP36-7**					
Acetone [a]		24.8 J	52	21	ug/kg	SW846 8260B
Aluminum [d]		3830	50	6.0	mg/kg	SW846 6010C
Arsenic [d]		1.7 J	2.5	0.50	mg/kg	SW846 6010C
Barium [d]		40.7 J	50	2.5	mg/kg	SW846 6010C
Calcium		139000	2500	50	mg/kg	SW846 6010C
Chromium [e]		3.2 J	5.0	0.50	mg/kg	SW846 6010C
Cobalt [d]		1.1 J	13	0.25	mg/kg	SW846 6010C
Copper [d]		2.2 J	6.3	0.50	mg/kg	SW846 6010C
Iron [d]		3320	75	8.3	mg/kg	SW846 6010C
Lead [e]		1.5 J	10	0.50	mg/kg	SW846 6010C
Magnesium [d]		3180	1300	25	mg/kg	SW846 6010C
Manganese [d]		40.5	3.8	0.25	mg/kg	SW846 6010C
Nickel [d]		2.7 J	10	0.25	mg/kg	SW846 6010C
Potassium [d]		832 J	2500	130	mg/kg	SW846 6010C
Sodium [d]		342 J	2500	280	mg/kg	SW846 6010C
Vanadium [d]		12.8 J	13	0.25	mg/kg	SW846 6010C
Zinc [e]		9.0 J	10	2.5	mg/kg	SW846 6010C
F96003-3	**SS18-DP44-7**					
Aluminum [d]		3490	63	7.6	mg/kg	SW846 6010C
Arsenic [d]		1.5 J	3.2	0.63	mg/kg	SW846 6010C

Summary of Hits

Job Number: F96003
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12 thru 08/16/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium [d]		36.0 J	63	3.2	mg/kg	SW846 6010C
Calcium		180000	3200	63	mg/kg	SW846 6010C
Chromium [e]		3.0 J	6.3	0.63	mg/kg	SW846 6010C
Cobalt [d]		1.2 J	16	0.32	mg/kg	SW846 6010C
Copper [d]		2.2 J	7.9	0.63	mg/kg	SW846 6010C
Iron [d]		3150	95	10	mg/kg	SW846 6010C
Lead [e]		1.1 J	13	0.63	mg/kg	SW846 6010C
Magnesium [d]		2500	1600	32	mg/kg	SW846 6010C
Manganese [d]		78.1	4.7	0.32	mg/kg	SW846 6010C
Nickel [d]		3.3 J	13	0.32	mg/kg	SW846 6010C
Potassium [d]		811 J	3200	160	mg/kg	SW846 6010C
Vanadium [d]		11.3 J	16	0.32	mg/kg	SW846 6010C
Zinc [e]		8.2 J	13	3.2	mg/kg	SW846 6010C

F96003-4 TRIP BLANK

No hits reported in this sample.

(a) Soil vials were not preserved within 48 hours of sampling; results are considered minimum values.
(b) Confirmed by re-extraction and reanalysis beyond holdtime. Sample results indicate possible sample nonhomogeneity. Associated BS recovery outside control limits.
(c) Confirmed by re-extraction and reanalysis beyond holdtime. Sample results indicate possible sample nonhomogeneity.
(d) Sample dilution required due to sample matrix.
(e) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y4872.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	6.01 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	22	ug/kg	
75-05-8	Acetonitrile	ND	56	20	ug/kg	
107-02-8	Acrolein	ND	28	12	ug/kg	
107-13-1	Acrylonitrile	ND	28	13	ug/kg	
107-05-1	Allyl chloride	ND	28	5.6	ug/kg	
71-43-2	Benzene	ND	5.6	1.7	ug/kg	
100-44-7	Benzyl Chloride	ND	5.6	1.7	ug/kg	
108-86-1	Bromobenzene	ND	5.6	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	1.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	1.2	ug/kg	
75-25-2	Bromoform	ND	5.6	1.7	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.2	ug/kg	
67-66-3	Chloroform	ND	5.6	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.6	1.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	1.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.6	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	1.6	ug/kg	

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.6	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.4	5.6	1.7	ug/kg	J
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.6	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	28	5.6	ug/kg	
76-13-1	Freon 113	ND	5.6	1.9	ug/kg	
591-78-6	2-Hexanone	ND	28	6.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	2.2	ug/kg	
110-54-3	Hexane	ND	5.6	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	6.1	ug/kg	
126-98-7	Methacrylonitrile	ND	28	10	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.6	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.6	1.7	ug/kg	
75-09-2	Methylene chloride	ND	11	5.1	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	6.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	28	5.6	ug/kg	
107-12-0	Propionitrile	ND	56	18	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	1.6	ug/kg	
100-42-5	Styrene	ND	5.6	2.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.3	ug/kg	

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	1.1	ug/kg	
108-88-3	Toluene	ND	5.6	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	28	15	ug/kg	
	m,p-Xylene	ND	11	2.4	ug/kg	
95-47-6	o-Xylene	ND	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	103%		59-148%
17060-07-0	1,2-Dichloroethane-D4	110%		77-123%

(a) Soil vials were not preserved within 48 hours of sampling; 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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059190.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	45	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	89	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	89	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	98	ug/kg	
67-72-1	Hexachloroethane	ND	220	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	45	ug/kg	
99-09-2	3-Nitroaniline	ND	220	45	ug/kg	
100-01-6	4-Nitroaniline	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		40-102%
4165-62-2	Phenol-d5	62%		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070749.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.79 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.5	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109613.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	23	11	ug/kg	
11141-16-5	Aroclor 1232	ND	23	11	ug/kg	
53469-21-9	Aroclor 1242	ND	23	9.0	ug/kg	
12672-29-6	Aroclor 1248	ND	23	9.0	ug/kg	
11097-69-1	Aroclor 1254	ND	23	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	23	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		44-126%
2051-24-3	Decachlorobiphenyl	89%		39-157%

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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	YR437.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2 [b]	YR558A.D	1	09/11/12	SJL	09/07/12	OP43447	GYR15

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2	30.0 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [c]	4.56	11	4.5	mg/kg	J
	TPH (> C22-C36)	7.91	11	4.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%	71%	49-108%

(a) Confirmed by re-extraction and reanalysis beyond holdtime. Sample results indicate possible sample nonhomogeneity.
(b) Confirmation run.
(c) Associated BS recovery outside 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:	SS18-DP35-5		
Lab Sample ID:	F96003-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	74.8
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	1210	66	7.9	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.3 U	13	1.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.2 J	3.3	0.66	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	28.9 J	66	3.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.33 U	1.6	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.66 U	2.6	0.66	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	215000	3300	66	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	0.78 J	6.6	0.66	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	0.45 J	16	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.3 J	8.2	0.66	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	993	98	11	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.71 J	13	0.66	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	913 J	1600	33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	11.5	4.9	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	1.2 J	13	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	314 J	3300	160	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.6 U	13	2.6	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.33 U	3.3	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	360 U	3300	360	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.7 U	6.6	1.7	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	4.4 J	16	0.33	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	4.0 J	13	3.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Y4873.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	6.44 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	24.8	52	21	ug/kg	J
75-05-8	Acetonitrile	ND	52	19	ug/kg	
107-02-8	Acrolein	ND	26	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.2	ug/kg	
71-43-2	Benzene	ND	5.2	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.2	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.1	ug/kg	
75-25-2	Bromoform	ND	5.2	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.2	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.5	ug/kg	

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.2	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.2	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.2	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.2	ug/kg	
76-13-1	Freon 113	ND	5.2	1.8	ug/kg	
591-78-6	2-Hexanone	ND	26	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/kg	
110-54-3	Hexane	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.7	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.5	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.2	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.2	1.6	ug/kg	
75-09-2	Methylene chloride	ND	10	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.2	ug/kg	
107-12-0	Propionitrile	ND	52	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.5	ug/kg	
100-42-5	Styrene	ND	5.2	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.2	ug/kg	

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.0	ug/kg	
108-88-3	Toluene	ND	5.2	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	26	14	ug/kg	
	m,p-Xylene	ND	10	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	106%		59-148%
17060-07-0	1,2-Dichloroethane-D4	102%		77-123%

(a) Soil vials were not preserved within 48 hours of sampling; 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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059191.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	88	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	440	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	44	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	44	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	44	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	44	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	44	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	440	88	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	44	ug/kg	
84-66-2	Diethyl phthalate	ND	440	88	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	44	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	88	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	44	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	96	ug/kg	
67-72-1	Hexachloroethane	ND	220	44	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	44	ug/kg	
99-09-2	3-Nitroaniline	ND	220	44	ug/kg	
100-01-6	4-Nitroaniline	ND	220	44	ug/kg	
91-20-3	Naphthalene	ND	220	35	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	74%		42-108%

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	66%		43-107%
1718-51-0	Terphenyl-d14	76%		45-119%

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070750.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.2	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109614.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	9.0	ug/kg	
12672-29-6	Aroclor 1248	ND	22	9.0	ug/kg	
11097-69-1	Aroclor 1254	ND	22	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	22	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	89%		39-157%

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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR438.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	ND	11	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		49-108%

(a) Associated BS recovery outside 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:	SS18-DP36-7		
Lab Sample ID:	F96003-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	74.8
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3830	50	6.0	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.0 U	10	1.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.7 J	2.5	0.50	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	40.7 J	50	2.5	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.25 U	1.3	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.50 U	2.0	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	139000	2500	50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	3.2 J	5.0	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.1 J	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.2 J	6.3	0.50	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	3320	75	8.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	1.5 J	10	0.50	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3180	1300	25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	40.5	3.8	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	2.7 J	10	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	832 J	2500	130	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.0 U	10	2.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.25 U	2.5	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	342 J	2500	280	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.3 U	5.0	1.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	12.8 J	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	9.0 J	10	2.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4874.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	6.12 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	59	24	ug/kg	
75-05-8	Acetonitrile	ND	59	21	ug/kg	
107-02-8	Acrolein	ND	30	13	ug/kg	
107-13-1	Acrylonitrile	ND	30	13	ug/kg	
107-05-1	Allyl chloride	ND	30	5.9	ug/kg	
71-43-2	Benzene	ND	5.9	1.8	ug/kg	
100-44-7	Benzyl Chloride	ND	5.9	1.8	ug/kg	
108-86-1	Bromobenzene	ND	5.9	1.7	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	1.7	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	1.3	ug/kg	
75-25-2	Bromoform	ND	5.9	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	5.9	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.9	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.9	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	1.2	ug/kg	
75-00-3	Chloroethane	ND	5.9	2.4	ug/kg	
67-66-3	Chloroform	ND	5.9	1.4	ug/kg	
544-10-5	1-Chlorohexane	ND	5.9	1.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.9	1.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.9	1.4	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	30	12	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	2.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.9	1.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.9	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	2.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.9	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.9	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	1.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.9	1.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.9	1.7	ug/kg	

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.9	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	1.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.9	1.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	1.2	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	30	5.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.9	1.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.9	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.9	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.9	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	1.2	ug/kg	
97-63-2	Ethyl methacrylate	ND	30	5.9	ug/kg	
76-13-1	Freon 113	ND	5.9	2.0	ug/kg	
591-78-6	2-Hexanone	ND	30	6.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.9	2.4	ug/kg	
110-54-3	Hexane	ND	5.9	2.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.9	1.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	30	6.5	ug/kg	
126-98-7	Methacrylonitrile	ND	30	11	ug/kg	
74-83-9	Methyl bromide	ND	5.9	2.4	ug/kg	
74-87-3	Methyl chloride	ND	5.9	2.4	ug/kg	
74-88-4	Methyl iodide	ND	12	1.3	ug/kg	
80-62-6	Methyl methacrylate	ND	5.9	2.1	ug/kg	
74-95-3	Methylene bromide	ND	5.9	1.8	ug/kg	
75-09-2	Methylene chloride	ND	12	5.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	30	7.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.9	2.4	ug/kg	
91-20-3	Naphthalene	ND	5.9	2.4	ug/kg	
76-01-7	Pentachloroethane	ND	30	5.9	ug/kg	
107-12-0	Propionitrile	ND	59	19	ug/kg	
103-65-1	n-Propylbenzene	ND	5.9	1.7	ug/kg	
100-42-5	Styrene	ND	5.9	3.1	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	1.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.9	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	1.4	ug/kg	

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	1.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.9	1.2	ug/kg	
108-88-3	Toluene	ND	5.9	1.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.9	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	2.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	30	5.9	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	1.8	ug/kg	
108-05-4	Vinyl Acetate	ND	30	16	ug/kg	
	m,p-Xylene	ND	12	2.6	ug/kg	
95-47-6	o-Xylene	ND	5.9	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-121%
2037-26-5	Toluene-D8	106%		71-130%
460-00-4	4-Bromofluorobenzene	109%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1200	420	ug/kg	
95-57-8	2-Chlorophenol	ND	240	24	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	30	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	480	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	480	95	ug/kg	
95-48-7	2-Methylphenol	ND	240	24	ug/kg	
	3&4-Methylphenol	ND	240	34	ug/kg	
88-75-5	2-Nitrophenol	ND	240	24	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	190	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	290	ug/kg	
108-95-2	Phenol	ND	240	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	24	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	24	ug/kg	
83-32-9	Acenaphthene	ND	240	24	ug/kg	
208-96-8	Acenaphthylene	ND	240	24	ug/kg	
120-12-7	Anthracene	ND	240	24	ug/kg	
92-87-5	Benzidine	ND	2400	480	ug/kg	
56-55-3	Benzo(a)anthracene	ND	240	24	ug/kg	
50-32-8	Benzo(a)pyrene	ND	240	24	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	240	24	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	240	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	240	24	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	24	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	48	ug/kg	
100-51-6	Benzyl Alcohol	ND	240	48	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	48	ug/kg	
106-47-8	4-Chloroaniline	ND	240	24	ug/kg	
218-01-9	Chrysene	ND	240	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	24	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	24	ug/kg	

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	24	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	48	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	48	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	48	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	240	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	240	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	480	48	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	240	24	ug/kg	
132-64-9	Dibenzofuran	ND	240	24	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	480	95	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	48	ug/kg	
84-66-2	Diethyl phthalate	ND	480	95	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	48	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	480	95	ug/kg	
206-44-0	Fluoranthene	ND	240	24	ug/kg	
86-73-7	Fluorene	ND	240	24	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	48	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	240	100	ug/kg	
67-72-1	Hexachloroethane	ND	240	48	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	24	ug/kg	
78-59-1	Isophorone	ND	240	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	240	24	ug/kg	
88-74-4	2-Nitroaniline	ND	240	48	ug/kg	
99-09-2	3-Nitroaniline	ND	240	48	ug/kg	
100-01-6	4-Nitroaniline	ND	240	48	ug/kg	
91-20-3	Naphthalene	ND	240	38	ug/kg	
98-95-3	Nitrobenzene	ND	240	24	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	24	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	24	ug/kg	
85-01-8	Phenanthrene	ND	240	24	ug/kg	
129-00-0	Pyrene	ND	240	24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		40-102%
4165-62-2	Phenol-d5	68%		41-100%
118-79-6	2,4,6-Tribromophenol	79%		42-108%

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070751.D	1	08/20/12	MM	n/a	n/a	GQR3059
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.49 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.8	3.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	105%		61-121%

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109621.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	24	12	ug/kg	
11141-16-5	Aroclor 1232	ND	24	12	ug/kg	
53469-21-9	Aroclor 1242	ND	24	9.5	ug/kg	
12672-29-6	Aroclor 1248	ND	24	9.5	ug/kg	
11097-69-1	Aroclor 1254	ND	24	9.5	ug/kg	
11096-82-5	Aroclor 1260	ND	24	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		44-126%
2051-24-3	Decachlorobiphenyl	87%		39-157%

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:	SS18-DP44-7		
Lab Sample ID:	F96003-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	69.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR439.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22) [a]	ND	12	4.8	mg/kg	
	TPH (> C22-C36)	ND	12	4.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		49-108%

(a) Associated BS recovery outside 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: SS18-DP44-7
Lab Sample ID: F96003-3
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/16/12
Date Received: 08/17/12
Percent Solids: 69.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3490	63	7.6	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.3 U	13	1.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.5 J	3.2	0.63	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	36.0 J	63	3.2	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.32 U	1.6	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.63 U	2.5	0.63	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	180000	3200	63	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	3.0 J	6.3	0.63	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.2 J	16	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.2 J	7.9	0.63	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	3150	95	10	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	1.1 J	13	0.63	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	2500	1600	32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	78.1	4.7	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	3.3 J	13	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	811 J	3200	160	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.5 U	13	2.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.32 U	3.2	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	350 U	3200	350	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.6 U	6.3	1.6	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	11.3 J	16	0.32	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	8.2 J	13	3.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96003-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4880.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96003-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96003-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-121%
2037-26-5	Toluene-D8	106%		71-130%
460-00-4	4-Bromofluorobenzene	105%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96003

Page: 1 of 1

Project No: 11-0020

COC Number(1): 08162012-2

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP35-5		15-08-2012	1300	3 - 5	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP36-7		15-08-2012	1330	5 - 7	N		SO	6	X	X	X	X	X	X	X					
3	SS18-DP44-7		16-08-2012	0910	5 - 7	N		SO	6	X	X	X	X	X	X	X					
	SS18-DP44-7-MS		16-08-2012	0910	5 - 7	MS		SO	6	X	X	X	X	X	X	X					
	SS18-DP44-7-MSD		16-08-2012	0910	5 - 7	SD		SO	6	X	X	X	X	X	X	X					
4	Trip Blank				-	TB		SQ												2-059-001	
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Barry Parrish	08/16/2012	1300	1. FX		
2. FX	8/17/12	9:30	2. [illegible] ALSE	8/17/12	9:30
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 798759757144

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.8c

5.1

5

F96003: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96003 CLIENT: NATIONWIDE PROJECT: SS-18 SUPP ACM

DATE/TIME RECEIVED: 08/17/12 9:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 5975 7144

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
- [ ] RECEIVED WATER TRIP BLANK
- [x] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM____ 5-GRAM____

NUMBER OF 5035 FIELD KITS ? 5+TB

NUMBER OF LAB FILTERED METALS ? ____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 2.8
- [ ] 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 [signature] 08/17/12 REVIEWER SIGNATURE/DATE [signature] 08-17-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F96003: Chain of Custody

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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

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	105%	77-123%

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	309	124	61-144
75-05-8	Acetonitrile	500	511	102	59-139
107-02-8	Acrolein	250	247	99	27-156
107-13-1	Acrylonitrile	250	206	82	55-144
107-05-1	Allyl chloride	50	49.9	100	41-152
71-43-2	Benzene	50	51.5	103	78-130
100-44-7	Benzyl Chloride	50	52.4	105	74-130
108-86-1	Bromobenzene	50	51.9	104	78-123
74-97-5	Bromochloromethane	50	46.0	92	72-122
75-27-4	Bromodichloromethane	50	50.5	101	73-122
75-25-2	Bromoform	50	48.9	98	70-139
104-51-8	n-Butylbenzene	50	53.8	108	80-138
135-98-8	sec-Butylbenzene	50	56.4	113	82-132
98-06-6	tert-Butylbenzene	50	55.3	111	79-130
108-90-7	Chlorobenzene	50	56.8	114	83-122
75-00-3	Chloroethane	50	58.3	117	61-153
67-66-3	Chloroform	50	48.4	97	79-129
544-10-5	1-Chlorohexane	50	47.6	95	85-137
95-49-8	o-Chlorotoluene	50	54.1	108	77-123
106-43-4	p-Chlorotoluene	50	56.3	113	78-129
110-75-8	2-Chloroethyl vinyl ether	250	251	100	52-142
75-15-0	Carbon disulfide	50	54.1	108	61-142
56-23-5	Carbon tetrachloride	50	50.2	100	79-135
75-34-3	1,1-Dichloroethane	50	48.6	97	77-132
75-35-4	1,1-Dichloroethylene	50	61.4	123	66-132
563-58-6	1,1-Dichloropropene	50	51.3	103	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	51.8	104	67-129
106-93-4	1,2-Dibromoethane	50	50.9	102	77-126
107-06-2	1,2-Dichloroethane	50	52.9	106	78-129
78-87-5	1,2-Dichloropropane	50	50.3	101	74-127
142-28-9	1,3-Dichloropropane	50	50.3	101	78-118
594-20-7	2,2-Dichloropropane	50	50.5	101	80-137
124-48-1	Dibromochloromethane	50	50.1	100	78-117
75-71-8	Dichlorodifluoromethane	50	64.8	130	35-162
156-59-2	cis-1,2-Dichloroethylene	50	48.4	97	74-123
10061-01-5	cis-1,3-Dichloropropene	50	46.4	93	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	58.4	117	71-126
541-73-1	m-Dichlorobenzene	50	55.5	111	82-126
95-50-1	o-Dichlorobenzene	50	56.9	114	83-123
106-46-7	p-Dichlorobenzene	50	52.8	106	84-124
156-60-5	trans-1,2-Dichloroethylene	50	50.1	100	77-129
10061-02-6	trans-1,3-Dichloropropene	50	53.4	107	87-131
100-41-4	Ethylbenzene	50	53.1	106	82-124
97-63-2	Ethyl methacrylate	50	51.7	103	78-118
76-13-1	Freon 113	50	56.9	114	62-147
591-78-6	2-Hexanone	250	288	115	67-130
87-68-3	Hexachlorobutadiene	50	53.8	108	77-150
110-54-3	Hexane	50	48.3	97	65-147
98-82-8	Isopropylbenzene	50	57.0	114	82-133
99-87-6	p-Isopropyltoluene	50	54.8	110	82-132
108-10-1	4-Methyl-2-pentanone	250	273	109	69-125
126-98-7	Methacrylonitrile	500	580	116	70-138
74-83-9	Methyl bromide	50	57.5	115	60-146
74-87-3	Methyl chloride	50	50.6	101	58-163
74-88-4	Methyl iodide	50	54.2	108	66-128
80-62-6	Methyl methacrylate	50	56.0	112	73-125
74-95-3	Methylene bromide	50	50.6	101	75-128
75-09-2	Methylene chloride	50	48.7	97	62-140
78-93-3	Methyl ethyl ketone	250	282	113	66-134
1634-04-4	Methyl Tert Butyl Ether	50	44.7	89	70-131
91-20-3	Naphthalene	50	51.7	103	59-143
76-01-7	Pentachloroethane	50	62.9	126	64-156
107-12-0	Propionitrile	500	552	110	73-133
103-65-1	n-Propylbenzene	50	56.9	114	78-129
100-42-5	Styrene	50	52.7	105	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	51.6	103	81-121
71-55-6	1,1,1-Trichloroethane	50	49.5	99	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	51.6	103	70-128
79-00-5	1,1,2-Trichloroethane	50	50.6	101	76-118
87-61-6	1,2,3-Trichlorobenzene	50	52.6	105	78-136
96-18-4	1,2,3-Trichloropropane	50	51.9	104	74-125
120-82-1	1,2,4-Trichlorobenzene	50	53.7	107	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	50.8	102	77-129
108-67-8	1,3,5-Trimethylbenzene	50	50.4	101	79-129
127-18-4	Tetrachloroethylene	50	54.6	109	79-132
108-88-3	Toluene	50	52.3	105	80-123
79-01-6	Trichloroethylene	50	51.4	103	78-132
75-69-4	Trichlorofluoromethane	50	61.3	123	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	54.6	109	74-138
75-01-4	Vinyl chloride	50	53.5	107	60-145
108-05-4	Vinyl Acetate	250	205	82	25-164
	m,p-Xylene	100	109	109	82-128
95-47-6	o-Xylene	50	54.1	108	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	104%	71-130%
460-00-4	4-Bromofluorobenzene	103%	59-148%
17060-07-0	1,2-Dichloroethane-D4	104%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96003-3MS	Y4875.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3MSD	Y4876.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3	Y4874.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		283	247	87	266	92	7	61-144/29
75-05-8	Acetonitrile	ND		566	412	73	451	78	9	59-139/30
107-02-8	Acrolein	ND		283	147	52	177	61	19	27-156/39
107-13-1	Acrylonitrile	ND		283	214	76	221	76	3	55-144/24
107-05-1	Allyl chloride	ND		56.6	44.5	79	43.4	75	3	41-152/24
71-43-2	Benzene	ND		56.6	47.9	85	48.7	84	2	78-130/25
100-44-7	Benzyl Chloride	ND		56.6	20.9	37*	20.9	36*	0	74-130/28
108-86-1	Bromobenzene	ND		56.6	49.2	87	47.0	81	5	78-123/30
74-97-5	Bromochloromethane	ND		56.6	43.1	76	43.3	75	0	72-122/23
75-27-4	Bromodichloromethane	ND		56.6	47.9	85	48.1	83	0	73-122/25
75-25-2	Bromoform	ND		56.6	42.1	74	41.6	72	1	70-139/26
104-51-8	n-Butylbenzene	ND		56.6	39.8	70*	37.2	64*	7	80-138/31
135-98-8	sec-Butylbenzene	ND		56.6	48.0	85	46.1	80*	4	82-132/29
98-06-6	tert-Butylbenzene	ND		56.6	49.5	87	48.4	84	2	79-130/29
108-90-7	Chlorobenzene	ND		56.6	52.5	93	51.5	89	2	83-122/23
75-00-3	Chloroethane	ND		56.6	54.6	96	52.7	91	4	61-153/31
67-66-3	Chloroform	ND		56.6	46.5	82	48.1	83	3	79-129/27
544-10-5	1-Chlorohexane	ND		56.6	36.8	65*	35.8	62*	3	85-137/29
95-49-8	o-Chlorotoluene	ND		56.6	49.3	87	47.5	82	4	77-123/31
106-43-4	p-Chlorotoluene	ND		56.6	49.9	88	47.7	83	5	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		283	217	77	209	72	4	52-142/25
75-15-0	Carbon disulfide	ND		56.6	50.2	89	46.7	81	7	61-142/27
56-23-5	Carbon tetrachloride	ND		56.6	45.3	80	43.1	75*	5	79-135/29
75-34-3	1,1-Dichloroethane	ND		56.6	47.4	84	48.4	84	2	77-132/26
75-35-4	1,1-Dichloroethylene	ND		56.6	54.2	96	54.0	93	0	66-132/27
563-58-6	1,1-Dichloropropene	ND		56.6	43.8	77*	43.9	76*	0	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		56.6	48.0	85	43.7	76	9	67-129/29
106-93-4	1,2-Dibromoethane	ND		56.6	44.2	78	44.1	76*	0	77-126/24
107-06-2	1,2-Dichloroethane	ND		56.6	48.4	85	49.8	86	3	78-129/24
78-87-5	1,2-Dichloropropane	ND		56.6	49.4	87	48.0	83	3	74-127/27
142-28-9	1,3-Dichloropropane	ND		56.6	44.3	78	46.1	80	4	78-118/26
594-20-7	2,2-Dichloropropane	ND		56.6	38.6	68*	37.9	66*	2	80-137/28
124-48-1	Dibromochloromethane	ND		56.6	45.7	81	45.5	79	0	78-117/27
75-71-8	Dichlorodifluoromethane	ND		56.6	46.0	81	46.4	80	1	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		56.6	47.7	84	45.9	79	4	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		56.6	42.5	75*	41.6	72*	2	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96003-3MS	Y4875.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3MSD	Y4876.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3	Y4874.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		56.6	42.6	75	39.9	69*	7	71-126/28
541-73-1	m-Dichlorobenzene	ND		56.6	50.8	90	47.0	81*	8	82-126/29
95-50-1	o-Dichlorobenzene	ND		56.6	51.2	90	48.6	84	5	83-123/28
106-46-7	p-Dichlorobenzene	ND		56.6	46.6	82*	44.6	77*	4	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		56.6	45.4	80	46.6	81	3	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		56.6	44.0	78*	45.8	79*	4	87-131/27
100-41-4	Ethylbenzene	ND		56.6	47.0	83	46.2	80*	2	82-124/25
97-63-2	Ethyl methacrylate	ND		56.6	38.0	67*	39.0	67*	3	78-118/30
76-13-1	Freon 113	ND		56.6	41.7	74	40.0	69	4	62-147/29
591-78-6	2-Hexanone	ND		283	220	78	219	76	0	67-130/29
87-68-3	Hexachlorobutadiene	ND		56.6	39.1	69*	38.1	66*	3	77-150/36
110-54-3	Hexane	ND		56.6	30.0	53*	30.3	52*	1	65-147/27
98-82-8	Isopropylbenzene	ND		56.6	48.5	86	48.5	84	0	82-133/27
99-87-6	p-Isopropyltoluene	ND		56.6	45.7	81*	43.9	76*	4	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		283	220	78	227	79	3	69-125/24
126-98-7	Methacrylonitrile	ND		566	463	82	486	84	5	70-138/22
74-83-9	Methyl bromide	ND		56.6	55.0	97	56.0	97	2	60-146/31
74-87-3	Methyl chloride	ND		56.6	44.8	79	45.3	78	1	58-163/26
74-88-4	Methyl iodide	ND		56.6	52.5	93	52.8	91	1	66-128/27
80-62-6	Methyl methacrylate	ND		56.6	50.7	90	51.1	88	1	73-125/24
74-95-3	Methylene bromide	ND		56.6	46.7	82	45.9	79	2	75-128/26
75-09-2	Methylene chloride	ND		56.6	47.0	83	48.2	83	3	62-140/25
78-93-3	Methyl ethyl ketone	ND		283	215	76	222	77	3	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		56.6	42.4	75	42.2	73	0	70-131/25
91-20-3	Naphthalene	ND		56.6	42.5	75	41.6	72	2	59-143/31
76-01-7	Pentachloroethane	ND		56.6	16.3	29*	15.2	26*	7	64-156/37
107-12-0	Propionitrile	ND		566	417	74	456	79	9	73-133/23
103-65-1	n-Propylbenzene	ND		56.6	48.4	85	46.5	80	4	78-129/29
100-42-5	Styrene	ND		56.6	46.7	82	46.9	81	0	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		56.6	48.0	85	50.3	87	5	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		56.6	45.6	81	44.0	76*	4	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		56.6	42.5	75	42.9	74	1	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		56.6	46.5	82	47.9	83	3	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		56.6	44.5	79	40.4	70*	10	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		56.6	45.2	80	43.8	76	3	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		56.6	44.1	78*	39.7	69*	11	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96003-3MS	Y4875.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3MSD	Y4876.D	1	08/18/12	EP	n/a	n/a	VY208
F96003-3	Y4874.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96003-1, F96003-2, F96003-3, F96003-4

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		56.6	45.5	80	43.7	76*	4	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		56.6	44.8	79	42.9	74*	4	79-129/31
127-18-4	Tetrachloroethylene	ND		56.6	70.9	125	71.5	124	1	79-132/27
108-88-3	Toluene	ND		56.6	46.9	83	47.8	83	2	80-123/26
79-01-6	Trichloroethylene	ND		56.6	48.4	85	48.4	84	0	78-132/28
75-69-4	Trichlorofluoromethane	ND		56.6	50.1	88	48.2	83	4	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		56.6	38.6	68*	36.6	63*	5	74-138/30
75-01-4	Vinyl chloride	ND		56.6	46.3	82	47.7	83	3	60-145/29
108-05-4	Vinyl Acetate	ND		283	69.1	24*	73.7	26	6	25-164/35
	m,p-Xylene	ND		113	95.2	84	94.6	82	1	82-128/25
95-47-6	o-Xylene	ND		56.6	49.6	88	49.5	86	0	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
1868-53-7	Dibromofluoromethane	100%	100%	103%	80-121%
2037-26-5	Toluene-D8	101%	100%	106%	71-130%
460-00-4	4-Bromofluorobenzene	101%	97%	109%	59-148%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	105%	77-123%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	40-102%
4165-62-2	Phenol-d5	65%	41-100%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	63%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2530	76	44-116
95-57-8	2-Chlorophenol	1670	1100	66	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1380	83	59-102
120-83-2	2,4-Dichlorophenol	1670	1270	76	60-101
105-67-9	2,4-Dimethylphenol	1670	1110	67	49-89
51-28-5	2,4-Dinitrophenol	3330	3110	93	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3210	96	58-109
95-48-7	2-Methylphenol	1670	1130	68	53-94
	3&4-Methylphenol	3330	2260	68	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2910	87	56-106
87-86-5	Pentachlorophenol	3330	2900	87	50-115
108-95-2	Phenol	1670	1160	70	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1240	74	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1230	74	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1450	87	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1500	90	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1420	85	56-103
207-08-9	Benzo(k)fluoranthene	1670	1480	89	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	60-104
85-68-7	Butyl benzyl phthalate	1670	1460	88	57-110
100-51-6	Benzyl Alcohol	1670	1230	74	51-102
91-58-7	2-Chloronaphthalene	1670	1170	70	57-95
106-47-8	4-Chloroaniline	1670	1270	76	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1060	64	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1060	64	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1060	64	47-91
541-73-1	1,3-Dichlorobenzene	1670	1030	62	45-86
106-46-7	1,4-Dichlorobenzene	1670	1070	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1380	83	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	57-105
132-64-9	Dibenzofuran	1670	1300	78	58-103
84-74-2	Di-n-butyl phthalate	1670	1430	86	59-105
117-84-0	Di-n-octyl phthalate	1670	1550	93	59-117
84-66-2	Diethyl phthalate	1670	1390	83	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1470	88	57-111
206-44-0	Fluoranthene	1670	1410	85	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1130	68	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1210	73	36-94
67-72-1	Hexachloroethane	1670	1060	64	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1480	89	57-104
78-59-1	Isophorone	1670	1060	64	58-97
91-57-6	2-Methylnaphthalene	1670	1230	74	57-103
88-74-4	2-Nitroaniline	1670	1340	80	53-106
99-09-2	3-Nitroaniline	1670	1270	76	29-85
100-01-6	4-Nitroaniline	1670	1410	85	49-104
91-20-3	Naphthalene	1670	1140	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1220	73	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	53-107
85-01-8	Phenanthrene	1670	1400	84	61-103
129-00-0	Pyrene	1670	1420	85	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1120	67	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4780	732	15*	884	18*	19	44-116/36
95-57-8	2-Chlorophenol	ND		2390	1530	64	1680	70	9	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2390	1820	76	1960	82	7	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2390	1710	72	1900	79	11	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2390	1570	66	1710	71	9	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4780	3110	65	3350	70	7	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4780	3930	82	4330	90	10	58-109/37
95-48-7	2-Methylphenol	ND		2390	1570	66	1730	72	10	53-94/29
	3&4-Methylphenol	ND		4780	3150	66	3460	72	9	54-95/31
88-75-5	2-Nitrophenol	ND		2390	1640	69	1800	75	9	55-96/30
100-02-7	4-Nitrophenol	ND		4780	3660	77	4030	84	10	56-106/29
87-86-5	Pentachlorophenol	ND		4780	3560	74	3950	82	10	50-115/33
108-95-2	Phenol	ND		2390	1630	68	1780	74	9	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2390	1760	74	1880	78	7	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2390	1710	72	1810	75	6	60-100/27
83-32-9	Acenaphthene	ND		2390	1700	71	1880	78	10	59-97/29
208-96-8	Acenaphthylene	ND		2390	1670	70	1780	74	6	58-98/30
120-12-7	Anthracene	ND		2390	1770	74	1900	79	7	61-104/29
92-87-5	Benzidine	ND		2390	1190	50	1270	53	7	10-151/50
56-55-3	Benzo(a)anthracene	ND		2390	1810	76	2000	83	10	60-106/31
50-32-8	Benzo(a)pyrene	ND		2390	1740	73	1870	78	7	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2390	1810	76	2000	83	10	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2390	1800	75	1900	79	5	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2390	1950	82	2050	85	5	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2390	1730	72	1930	80	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2390	1850	77	2030	85	9	57-110/28
100-51-6	Benzyl Alcohol	ND		2390	1660	69	1860	78	11	51-102/34
91-58-7	2-Chloronaphthalene	ND		2390	1600	67	1740	73	8	57-95/28
106-47-8	4-Chloroaniline	ND		2390	1740	73	1910	80	9	19-85/34
218-01-9	Chrysene	ND		2390	1840	77	2020	84	9	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2390	1640	69	1790	75	9	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2390	1470	61	1630	68	10	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2390	1500	63	1630	68	8	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2390	1760	74	1840	77	4	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2390	1470	61	1630	68	10	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2390	1420	59	1590	66	11	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2390	1470	61	1620	68	10	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2390	1760	74	1950	81	10	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2390	1790	75	1940	81	8	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2390	1700	71	1870	78	10	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2390	1840	77	1960	82	6	57-105/29
132-64-9	Dibenzofuran	ND		2390	1690	71	1850	77	9	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2390	1780	74	1950	81	9	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2390	1950	82	2170	90	11	59-117/28
84-66-2	Diethyl phthalate	ND		2390	1820	76	1930	80	6	59-106/27
131-11-3	Dimethyl phthalate	ND		2390	1760	74	1870	78	6	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2390	1830	77	2080	87	13	57-111/29
206-44-0	Fluoranthene	ND		2390	1800	75	1960	82	9	60-110/32
86-73-7	Fluorene	ND		2390	1770	74	1870	78	5	60-99/30
118-74-1	Hexachlorobenzene	ND		2390	1720	72	1910	80	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2390	1520	64	1700	71	11	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2390	1610	67	1810	75	12	36-94/41
67-72-1	Hexachloroethane	ND		2390	1410	59	1590	66	12	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2390	1880	79	1990	83	6	57-104/33
78-59-1	Isophorone	ND		2390	1420	59	1570	65	10	58-97/30
91-57-6	2-Methylnaphthalene	ND		2390	1640	69	1790	75	9	57-103/32
88-74-4	2-Nitroaniline	ND		2390	1740	73	1930	80	10	53-106/29
99-09-2	3-Nitroaniline	ND		2390	1710	72	1900	79	11	29-85/31
100-01-6	4-Nitroaniline	ND		2390	1810	76	1990	83	9	49-104/31
91-20-3	Naphthalene	ND		2390	1580	66	1760	73	11	54-93/32
98-95-3	Nitrobenzene	ND		2390	1540	64	1730	72	12	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2390	1680	70	1870	78	11	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2390	1800	75	1920	80	6	53-107/28
85-01-8	Phenanthrene	ND		2390	1800	75	1970	82	9	61-103/32
129-00-0	Pyrene	ND		2390	1800	75	2000	83	11	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2390	1540	64	1710	71	10	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
367-12-4	2-Fluorophenol	62%	66%	63%	40-102%
4165-62-2	Phenol-d5	64%	70%	68%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96003-1, F96003-2, F96003-3

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
118-79-6	2,4,6-Tribromophenol	71%	77%	79%	42-108%
4165-60-0	Nitrobenzene-d5	62%	68%	65%	40-105%
321-60-8	2-Fluorobiphenyl	65%	69%	69%	43-107%
1718-51-0	Terphenyl-d14	74%	82%	77%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3059-MB	QR070727.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	56-136%
98-08-8	aaa-Trifluorotoluene	106%	61-121%

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3059-BS	QR070726.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.8	99	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	61-121%

8.2.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96003-3MS	QR070752.D	1	08/20/12	MM	n/a	n/a	GQR3059
F96003-3MSD	QR070753.D	1	08/20/12	MM	n/a	n/a	GQR3059
F96003-3	QR070751.D	1	08/20/12	MM	n/a	n/a	GQR3059

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	F96003-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		31.3	28.1	90	28.3	90	1	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	102%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	103%	105%	61-121%

8.3.1

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* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109589.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-1, F96003-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	44-126%
2051-24-3	Decachlorobiphenyl	95%	39-157%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MB	ST109643.D	1	08/23/12	MV	08/21/12	OP43219	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-1, F96003-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	44-126%
2051-24-3	Decachlorobiphenyl	101%	39-157%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109619.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109645.D	1	08/23/12	MV	08/22/12	OP43235	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	105%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YR415.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	99%	49-108%

Method Blank Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MB	YY31589.D	1	08/30/12	SJL	08/24/12	OP43265	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	113%* [a]	49-108%

(a) Outside control limits. Suspected double surrogate; however, sample was ND.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-BS	ST109588.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-1, F96003-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	118	89	69-117
11096-82-5	Aroclor 1260	133	122	92	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	92%	44-126%
2051-24-3	Decachlorobiphenyl	92%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-BS	ST109618.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	132	99	69-117
11096-82-5	Aroclor 1260	133	137	103	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	99%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-BS	YR414.D	1	08/29/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	37.7	113*	64-102
	TPH (> C22-C36)	33.3	34.0	102	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	108%	49-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43219-MS	ST109593.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
OP43219-MSD	ST109594.D	1	08/22/12	MV	08/21/12	OP43219	GST2640
F95702-2	ST109592.D	1	08/22/12	MV	08/21/12	OP43219	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-1, F96003-2

CAS No.	Compound	F95702-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	20 U		159	139	88	136	85	2	69-117/26
11096-82-5	Aroclor 1260	20 U		159	142	89	139	87	2	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F95702-2	Limits
877-09-8	Tetrachloro-m-xylene	91%	88%	93%	44-126%
2051-24-3	Decachlorobiphenyl	92%	89%	89%	39-157%

9.3.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MS	ST109622.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
OP43235-MSD	ST109623.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
F96003-3	ST109621.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96003-3

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		191	171	90	183	95	7	69-117/26
11096-82-5	Aroclor 1260	ND		191	171	90	186	96	8	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
877-09-8	Tetrachloro-m-xylene	97%	98%	83%	44-126%
2051-24-3	Decachlorobiphenyl	99%	103%	87%	39-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96003
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43265-MS	YR440.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
OP43265-MSD	YR441.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9
F96003-3	YR439.D	1	08/30/12	SJL	08/24/12	OP43265	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96003-1, F96003-2, F96003-3

CAS No.	Compound	F96003-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		48.3	50.8	105*	51.0	106*	0	64-102/32
	TPH (> C22-C36)	ND		48.3	48.8	101	46.6	97	5	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
84-15-1	o-Terphenyl	103%	105%	97%	49-108%

9.3.3

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	0.53	<10
Antimony	1.0	.05	.1	0.0	<1.0
Arsenic	0.50	.05	.1	-0.070	<0.50
Barium	10	.05	.5	0.015	<10
Beryllium	0.25	.005	.05	-0.015	<0.25
Cadmium	0.20	.005	.05	-0.015	<0.20
Calcium	250	2.5	5	17.9	<250
Chromium	0.50	.05	.05	-0.0050	<0.50
Cobalt	2.5	.05	.05	-0.015	<2.5
Copper	1.3	.05	.1	-0.16	<1.3
Iron	15	1.7	1.7	2.2	<15
Lead	1.0	.05	.05	-0.0050	<1.0
Magnesium	250	2.5	5	1.1	<250
Manganese	0.75	.05	.05	0.015	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.025	<2.0
Potassium	500	2.5	25	-1.1	<500
Selenium	1.0	.1	.2	-0.040	<1.0
Silver	0.50	.05	.05	0.0050	<0.50
Sodium	500	38	55	0.020	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	0.0050	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	-0.0050	<2.5
Zinc	1.0	.05	.25	0.070	<1.0

Associated samples MP23522: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			08/22/12					08/22/12	
Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	3490	3260 (a)	6.8	0-20	3490	5760 (a)	1940	117.2	80-120
Antimony	0.72	0.85 (b)	16.6	0-20	0.72	16.8 (b)	35.9	44.8N(d)	80-120
Arsenic	1.5	1.6 (a)	6.5	0-20	1.5	164 (a)	143	113.2	80-120
Barium	36.0	33.1 (a)	8.4	0-20	36.0	192 (a)	143	108.7	80-120
Beryllium	0.088	0.041(a)	72.9 (c)	0-20	0.088	4.1 (a)	3.59	111.8	80-120
Cadmium	0.0	0.0 (b)	NC	0-20	0.0	2.8 (b)	3.59	78.1N(d)	80-120
Calcium	180000	182000	1.1	0-20	180000	179000	1790	-55.8(e)	80-120
Chromium	3.0	2.8 (b)	6.9	0-20	3.0	16.6 (b)	14.3	94.8	80-120
Cobalt	1.2	1.1 (a)	8.7	0-20	1.2	39.9 (a)	35.9	107.9	80-120
Copper	2.2	2.0 (a)	9.5	0-20	2.2	22.3 (a)	17.9	112.1	80-120
Iron	3150	3010 (a)	4.5	0-20	3150	5260 (a)	1870	113.1	80-120
Lead	1.1	1.4 (b)	24.0 (c)	0-20	1.1	32.9 (b)	35.9	88.6	80-120
Magnesium	2500	2310 (a)	7.9	0-20	2500	4350 (a)	1790	103.1	80-120
Manganese	78.1	67.7 (a)	14.3	0-20	78.1	112 (a)	35.9	94.5	80-120
Molybdenum									
Nickel	3.3	3.0 (a)	9.5	0-20	3.3	42.3 (a)	35.9	108.7	80-120
Potassium	811	760 (a)	6.5	0-20	811	2840 (a)	1790	113.1	80-120
Selenium	0.0	0.0 (b)	NC	0-20	0.0	138 (b)	143	96.2	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	3.7 (a)	3.59	103.1	80-120
Sodium	244	0.00 (a)	200.0(c)	0-20	244	2280 (a)	1790	113.5	80-120
Strontium									
Thallium	0.0	0.0 (b)	NC	0-20	0.0	114 (b)	143	79.4N(d)	80-120
Tin									
Titanium									
Vanadium	11.3	10.8 (a)	4.5	0-20	11.3	49.5 (a)	35.9	106.5	80-120
Zinc	8.2	7.6 (b)	7.6	0-20	8.2	41.6 (b)	35.9	93.1	80-120

Associated samples MP23522: F96003-1, F96003-2, F96003-3

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(e) 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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F96003-3 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	3490	5590 (a)	1690	124.5N(b	3.0	20
Antimony	0.72	17.0 (c)	31.2	52.1N(b)	1.2	20
Arsenic	1.5	150 (a)	125	118.9	8.9	20
Barium	36.0	178 (a)	125	113.7	7.6	20
Beryllium	0.088	3.7 (a)	3.12	115.6	10.3	20
Cadmium	0.0	2.6 (c)	3.12	83.2	7.4	20
Calcium	180000	196000	1560	1024.5(d	9.1	20
Chromium	3.0	15.8 (c)	12.5	102.5	4.9	20
Cobalt	1.2	36.1 (a)	31.2	111.7	10.0	20
Copper	2.2	20.8 (a)	15.6	119.1	7.0	20
Iron	3150	5080 (a)	1620	118.8	3.5	20
Lead	1.1	31.6 (c)	31.2	97.6	4.0	20
Magnesium	2500	4190 (a)	1560	108.2	3.7	20
Manganese	78.1	124 (a)	31.2	147.0N(b	10.2	20
Molybdenum						
Nickel	3.3	38.7 (a)	31.2	113.3	8.9	20
Potassium	811	2670 (a)	1560	119.0	6.2	20
Selenium	0.0	129 (c)	125	103.3	6.7	20
Silver	0.0	3.4 (a)	3.12	108.9	8.5	20
Sodium	244	2110 (a)	1560	119.5	7.7	20
Strontium						
Thallium	0.0	109 (c)	125	87.2	4.5	20
Tin						
Titanium						
Vanadium	11.3	46.2 (a)	31.2	111.7	6.9	20
Zinc	8.2	39.7 (c)	31.2	100.9	4.7	20

Associated samples MP23522: F96003-1, F96003-2, F96003-3

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) Sample dilution required due to sample matrix.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) 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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1470	1350	108.9	80-120
Antimony	26.4	25	105.6	80-120
Arsenic	106	100	106.0	80-120
Barium	110	100	110.0	80-120
Beryllium	2.8	2.5	112.0	80-120
Cadmium	2.7	2.5	108.0	80-120
Calcium	1410	1250	112.8	80-120
Chromium	11.1	10	111.0	80-120
Cobalt	27.8	25	111.2	80-120
Copper	13.5	12.5	108.0	80-120
Iron	1440	1300	110.8	80-120
Lead	25.7	25	102.8	80-120
Magnesium	1340	1250	107.2	80-120
Manganese	27.9	25	111.6	80-120
Molybdenum				
Nickel	28.2	25	112.8	80-120
Potassium	1350	1250	108.0	80-120
Selenium	105	100	105.0	80-120
Silver	2.5	2.5	100.0	80-120
Sodium	1360	1250	108.8	80-120
Strontium				
Thallium	105	100	105.0	80-120
Tin				
Titanium				
Vanadium	26.6	25	106.4	80-120
Zinc	27.8	25	111.2	80-120

Associated samples MP23522: F96003-1, F96003-2, F96003-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F96003-3 Original	SDL 5:25	%DIF	QC Limits
Aluminum	55300	54000	2.4	0-10
Antimony	11.4	0.00	100.0(a)	0-10
Arsenic	23.4	0.00	100.0(a)	0-10
Barium	571	560	1.8	0-10
Beryllium	1.40	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2850000	3380000	18.6*(b)	0-10
Chromium	48.3	84.5	74.9 (a)	0-10
Cobalt	19.4	0.00	100.0(a)	0-10
Copper	35.0	34.5	1.4	0-10
Iron	50000	50200	0.3	0-10
Lead	17.2	0.00	100.0(a)	0-10
Magnesium	39700	39200	1.1	0-10
Manganese	1240	1250	0.9	0-10
Molybdenum				
Nickel	51.6	46.5	9.9	0-10
Potassium	12900	11500	10.0	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	3870	0.00	100.0(a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	180	171	4.8	0-10
Zinc	130	176	34.9 (a)	0-10

Associated samples MP23522: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F96003-3 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	55340	54233.2	58650	0.2	125	2500	176.7*(a	80-120
Antimony	9.8	10	11.4	11.172	117.4	0.2	5	100	106.2	80-120
Arsenic	9.8	10	23.4	22.932	141.4	0.2	5	100	118.5	80-120
Barium	9.8	10	570.8	559.384	852.7	0.2	12.5	250	117.3	80-120
Beryllium	9.8	10	1.4	1.372	59.4	0.2	2.5	50	116.1	80-120
Cadmium	9.8	10	0	0	49.2	0.2	2.5	50	98.4	80-120
Calcium	9.8	10	2850000	2793000	2784000	0.2	250	5000	-180.0*a	80-120
Chromium	9.8	10	48.3	47.334	102.5	0.2	2.5	50	110.3	80-120
Cobalt	9.8	10	19.4	19.012	75.9	0.2	2.5	50	113.8	80-120
Copper	9.8	10	35	34.3	152.8	0.2	5	100	118.5	80-120
Iron	9.8	10	50010	49009.8	53490	0.2	150	3000	149.3*(a	80-120
Lead	9.8	10	17.2	16.856	68.7	0.2	2.5	50	103.7	80-120
Magnesium	9.8	10	39650	38857	45280	0.2	250	5000	128.5*(a	80-120
Manganese	9.8	10	1239	1214.22	1303	0.2	2.5	50	177.6*(a	80-120
Molybdenum										
Nickel	9.8	10	51.6	50.568	163.5	0.2	5	100	112.9	80-120
Potassium	9.8	10	12870	12612.6	24960	0.2	500	10000	123.5*(a	80-120
Selenium	9.8	10	0	0	103.6	0.2	5	100	103.6	80-120
Silver	9.8	10	0	0	52.4	0.2	2.5	50	104.8	80-120
Sodium	9.8	10	3870	3792.6	15760	0.2	500	10000	119.7	80-120
Strontium										
Thallium	9.8	10	0	0	108.4	0.2	5	100	108.4	80-120
Tin										
Titanium										
Vanadium	9.8	10	179.9	176.302	233.9	0.2	2.5	50	115.2	80-120
Zinc	9.8	10	130.3	127.694	424.2	0.2	12.5	250	118.6	80-120

Associated samples MP23522: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23550: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0052	0.0051	1.9	0-20	0.0052	0.40	0.34	116.2	80-120

Associated samples MP23550: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96003-3 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0052	0.39	0.34	113.3	2.5	20

Associated samples MP23550: F96003-1, F96003-2, F96003-3

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: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23550: F96003-1, F96003-2, F96003-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96003
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96003-3 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0463	0.00	100.0(a)	0-10

Associated samples MP23550: F96003-1, F96003-2, F96003-3

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

09/06/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F96004

Sampling Date: 08/16/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **118**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96004

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96004-1	08/16/12	08:30	ZBBP	08/17/12	SO	Soil	SS18-DP34-8
F96004-2	08/16/12	09:55	ZBBP	08/17/12	SO	Soil	SS18-DP42-5
F96004-3	08/16/12	10:25	ZBBP	08/17/12	SO	Soil	SS18-DP43-5
F96004-4	08/16/12	08:00	ZBBP	08/17/12	SO	Soil	SS18-DP38-8
F96004-5	08/16/12	08:00	ZBBP	08/17/12	SO	Soil	SS18-DP38-8-A
F96004-6	08/16/12	00:00	ZBBP	08/17/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96004

Site: Holloman AFB; SS18 **Report Date** 9/6/2012 8:23:05 PM

5 Samples and 1 Trip Blank were collected on 08/16/2012 and were received at Accutest on 08/17/2012 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F96004. 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: SO **Batch ID:** VY207

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95612-4RMS, F95612-4RMSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1-Chlorohexane, Ethyl methacrylate, Hexachlorobutadiene, Hexane, Vinyl Acetate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43287

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3060

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96004-2MS, F96004-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43296

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) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43235

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23522

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) F96003-3DUP, F96003-3MS, F96003-3MSD, F96003-3PS, F96003-3SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Cadmium, Thallium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Manganese are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium 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 Beryllium, Lead, Sodium are outside control limits for sample MP23522-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Chromium, Cobalt, Lead, Sodium, Zinc are outside control limits for sample MP23522-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23522-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP23522-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23522-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F96004-1 for Aluminum: Sample dilution required due to sample matrix.

F96004-1 for Copper: Sample dilution required due to sample matrix.

F96004-1 for Arsenic: Sample dilution required due to sample matrix.

F96004-1 for Barium: Sample dilution required due to sample matrix.

F96004-1 for Cobalt: Sample dilution required due to sample matrix.

F96004-1 for Iron: Sample dilution required due to sample matrix.

F96004-1 for Magnesium: Sample dilution required due to sample matrix.

F96004-1 for Manganese: Sample dilution required due to sample matrix.

F96004-1 for Nickel: Sample dilution required due to sample matrix.

F96004-1 for Potassium: Sample dilution required due to sample matrix.

F96004-1 for Silver: Sample dilution required due to sample matrix.

F96004-1 for Sodium: Sample dilution required due to sample matrix.

F96004-1 for Vanadium: Sample dilution required due to sample matrix.

F96004-1 for Beryllium: Sample dilution required due to sample matrix.

F96004-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96004-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23522

F96004-1 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96004-1 for Lead: Elevated reporting limit(s) due to matrix interference.
F96004-1 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96004-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96004-1 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Barium: Sample dilution required due to sample matrix.
F96004-2 for Potassium: Sample dilution required due to sample matrix.
F96004-2 for Cobalt: Sample dilution required due to sample matrix.
F96004-2 for Copper: Sample dilution required due to sample matrix.
F96004-2 for Iron: Sample dilution required due to sample matrix.
F96004-2 for Magnesium: Sample dilution required due to sample matrix.
F96004-2 for Manganese: Sample dilution required due to sample matrix.
F96004-2 for Nickel: Sample dilution required due to sample matrix.
F96004-2 for Beryllium: Sample dilution required due to sample matrix.
F96004-2 for Silver: Sample dilution required due to sample matrix.
F96004-2 for Sodium: Sample dilution required due to sample matrix.
F96004-2 for Vanadium: Sample dilution required due to sample matrix.
F96004-2 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Lead: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96004-2 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Arsenic: Sample dilution required due to sample matrix.
F96004-3 for Copper: Sample dilution required due to sample matrix.
F96004-3 for Cobalt: Sample dilution required due to sample matrix.
F96004-3 for Iron: Sample dilution required due to sample matrix.
F96004-2 for Arsenic: Sample dilution required due to sample matrix.
F96004-3 for Beryllium: Sample dilution required due to sample matrix.
F96004-3 for Barium: Sample dilution required due to sample matrix.
F96004-3 for Magnesium: Sample dilution required due to sample matrix.
F96004-2 for Aluminum: Sample dilution required due to sample matrix.
F96004-3 for Aluminum: Sample dilution required due to sample matrix.
F96004-3 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Manganese: Sample dilution required due to sample matrix.
F96004-3 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Lead: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96004-3 for Vanadium: Sample dilution required due to sample matrix.
F96004-3 for Sodium: Sample dilution required due to sample matrix.
F96004-3 for Silver: Sample dilution required due to sample matrix.
F96004-3 for Potassium: Sample dilution required due to sample matrix.
F96004-3 for Nickel: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23522

F96004-4 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Lead: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Barium: Sample dilution required due to sample matrix.
F96004-4 for Potassium: Sample dilution required due to sample matrix.
F96004-4 for Nickel: Sample dilution required due to sample matrix.
F96004-4 for Manganese: Sample dilution required due to sample matrix.
F96004-4 for Magnesium: Sample dilution required due to sample matrix.
F96004-4 for Iron: Sample dilution required due to sample matrix.
F96004-4 for Copper: Sample dilution required due to sample matrix.
F96004-4 for Beryllium: Sample dilution required due to sample matrix.
F96004-4 for Silver: Sample dilution required due to sample matrix.
F96004-4 for Arsenic: Sample dilution required due to sample matrix.
F96004-4 for Aluminum: Sample dilution required due to sample matrix.
F96004-4 for Cobalt: Sample dilution required due to sample matrix.
F96004-4 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96004-4 for Sodium: Sample dilution required due to sample matrix.
F96004-4 for Vanadium: Sample dilution required due to sample matrix.
F96004-5 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Lead: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Cobalt: Sample dilution required due to sample matrix.
F96004-5 for Sodium: Sample dilution required due to sample matrix.
F96004-5 for Silver: Sample dilution required due to sample matrix.
F96004-5 for Potassium: Sample dilution required due to sample matrix.
F96004-5 for Nickel: Sample dilution required due to sample matrix.
F96004-5 for Manganese: Sample dilution required due to sample matrix.
F96004-5 for Magnesium: Sample dilution required due to sample matrix.
F96004-5 for Vanadium: Sample dilution required due to sample matrix.
F96004-5 for Copper: Sample dilution required due to sample matrix.
F96004-5 for Iron: Sample dilution required due to sample matrix.
F96004-5 for Barium: Sample dilution required due to sample matrix.
F96004-5 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96004-5 for Arsenic: Sample dilution required due to sample matrix.
F96004-5 for Aluminum: Sample dilution required due to sample matrix.
F96004-5 for Beryllium: Sample dilution required due to sample matrix.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23550

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) F96003-3DUP, F96003-3MS, F96003-3MSD, F96003-3SDL were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23550

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23550-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP23551

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) F96005-2MS, F96005-2MSD, F96005-2SDL, F96005-2DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23551-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23551-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51475

Sample(s) F96004-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN51477

Sample(s) F96004-3DUP were used as the QC samples for Solids, Percent.

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: September 6, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96004
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/16/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96004-1	**SS18-DP34-8**					
TPH (> C22-C36)		5.34 J	11	4.5	mg/kg	SW846 8015C
Aluminum [a]		3810	53	6.4	mg/kg	SW846 6010C
Arsenic [a]		1.1 J	2.7	0.53	mg/kg	SW846 6010C
Barium [a]		32.9 J	53	2.7	mg/kg	SW846 6010C
Calcium		193000	2700	53	mg/kg	SW846 6010C
Chromium [b]		3.2 J	5.3	0.53	mg/kg	SW846 6010C
Cobalt [a]		1.2 J	13	0.27	mg/kg	SW846 6010C
Copper [a]		2.3 J	6.7	0.53	mg/kg	SW846 6010C
Iron [a]		3370	80	8.8	mg/kg	SW846 6010C
Lead [b]		1.3 J	11	0.53	mg/kg	SW846 6010C
Magnesium [a]		2180	1300	27	mg/kg	SW846 6010C
Manganese [a]		40.7	4.0	0.27	mg/kg	SW846 6010C
Nickel [a]		3.2 J	11	0.27	mg/kg	SW846 6010C
Potassium [a]		902 J	2700	130	mg/kg	SW846 6010C
Sodium [a]		333 J	2700	290	mg/kg	SW846 6010C
Vanadium [a]		15.2	13	0.27	mg/kg	SW846 6010C
Zinc [b]		8.5 J	11	2.7	mg/kg	SW846 6010C
F96004-2	**SS18-DP42-5**					
Aluminum [a]		5020	70	8.4	mg/kg	SW846 6010C
Arsenic [a]		2.5 J	3.5	0.70	mg/kg	SW846 6010C
Barium [a]		48.3 J	70	3.5	mg/kg	SW846 6010C
Calcium		176000	3500	70	mg/kg	SW846 6010C
Chromium [b]		4.1 J	7.0	0.70	mg/kg	SW846 6010C
Cobalt [a]		1.9 J	17	0.35	mg/kg	SW846 6010C
Copper [a]		3.2 J	8.7	0.70	mg/kg	SW846 6010C
Iron [a]		4550	100	12	mg/kg	SW846 6010C
Lead [b]		2.4 J	14	0.70	mg/kg	SW846 6010C
Magnesium [a]		4490	1700	35	mg/kg	SW846 6010C
Manganese [a]		60.2	5.2	0.35	mg/kg	SW846 6010C
Nickel [a]		4.5 J	14	0.35	mg/kg	SW846 6010C
Potassium [a]		1320 J	3500	170	mg/kg	SW846 6010C
Vanadium [a]		16.5 J	17	0.35	mg/kg	SW846 6010C
Zinc [b]		11.5 J	14	3.5	mg/kg	SW846 6010C
F96004-3	**SS18-DP43-5**					
Aluminum [a]		1350	44	5.3	mg/kg	SW846 6010C
Arsenic [a]		1.8 J	2.2	0.44	mg/kg	SW846 6010C
Barium [a]		34.0 J	44	2.2	mg/kg	SW846 6010C
Calcium		248000	4400	89	mg/kg	SW846 6010C
Chromium [b]		1.0 J	8.9	0.89	mg/kg	SW846 6010C

Summary of Hits

Job Number: F96004
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/16/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cobalt [a]		0.73 J	11	0.22	mg/kg	SW846 6010C
Copper [a]		2.5 J	5.6	0.44	mg/kg	SW846 6010C
Iron [a]		1130	67	7.3	mg/kg	SW846 6010C
Magnesium [a]		761 J	1100	22	mg/kg	SW846 6010C
Manganese [a]		15.9	3.3	0.22	mg/kg	SW846 6010C
Nickel [a]		1.3 J	8.9	0.22	mg/kg	SW846 6010C
Potassium [a]		399 J	2200	110	mg/kg	SW846 6010C
Vanadium [a]		4.8 J	11	0.22	mg/kg	SW846 6010C
F96004-4	**SS18-DP38-8**					
Aluminum [a]		4610	53	6.4	mg/kg	SW846 6010C
Arsenic [a]		1.9 J	2.7	0.53	mg/kg	SW846 6010C
Barium [a]		50.2 J	53	2.7	mg/kg	SW846 6010C
Calcium		155000	2700	53	mg/kg	SW846 6010C
Chromium [b]		4.7 J	5.3	0.53	mg/kg	SW846 6010C
Cobalt [a]		1.8 J	13	0.27	mg/kg	SW846 6010C
Copper [a]		2.9 J	6.7	0.53	mg/kg	SW846 6010C
Iron [a]		4760	80	8.8	mg/kg	SW846 6010C
Lead [b]		2.2 J	11	0.53	mg/kg	SW846 6010C
Magnesium [a]		4440	1300	27	mg/kg	SW846 6010C
Manganese [a]		65.6	4.0	0.27	mg/kg	SW846 6010C
Nickel [a]		4.9 J	11	0.27	mg/kg	SW846 6010C
Potassium [a]		1090 J	2700	130	mg/kg	SW846 6010C
Sodium [a]		307 J	2700	290	mg/kg	SW846 6010C
Vanadium [a]		13.5	13	0.27	mg/kg	SW846 6010C
Zinc [b]		12.1	11	2.7	mg/kg	SW846 6010C
F96004-5	**SS18-DP38-8-A**					
Aluminum [a]		5000	47	5.7	mg/kg	SW846 6010C
Arsenic [a]		2.7	2.4	0.47	mg/kg	SW846 6010C
Barium [a]		56.9	47	2.4	mg/kg	SW846 6010C
Calcium		179000	2400	47	mg/kg	SW846 6010C
Chromium [b]		5.7	4.7	0.47	mg/kg	SW846 6010C
Cobalt [a]		1.9 J	12	0.24	mg/kg	SW846 6010C
Copper [a]		3.0 J	5.9	0.47	mg/kg	SW846 6010C
Iron [a]		5120	71	7.8	mg/kg	SW846 6010C
Lead [b]		2.8 J	9.5	0.47	mg/kg	SW846 6010C
Magnesium [a]		4860	1200	24	mg/kg	SW846 6010C
Manganese [a]		71.2	3.6	0.24	mg/kg	SW846 6010C
Nickel [a]		5.1 J	9.5	0.24	mg/kg	SW846 6010C
Potassium [a]		1140 J	2400	120	mg/kg	SW846 6010C
Sodium [a]		324 J	2400	260	mg/kg	SW846 6010C
Vanadium [a]		14.7	12	0.24	mg/kg	SW846 6010C

Summary of Hits

Job Number: F96004
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/16/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc [b]		13.5	9.5	2.4	mg/kg	SW846 6010C

F96004-6 **TRIP BLANK**

No hits reported in this sample.

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4857.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	7.25 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	19	ug/kg	
75-05-8	Acetonitrile	ND	47	17	ug/kg	
107-02-8	Acrolein	ND	23	10	ug/kg	
107-13-1	Acrylonitrile	ND	23	11	ug/kg	
107-05-1	Allyl chloride	ND	23	4.7	ug/kg	
71-43-2	Benzene	ND	4.7	1.4	ug/kg	
100-44-7	Benzyl Chloride	ND	4.7	1.4	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	1.0	ug/kg	
75-25-2	Bromoform	ND	4.7	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.94	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
544-10-5	1-Chlorohexane	ND	4.7	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	23	9.4	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.94	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.94	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.94	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	1.3	ug/kg	

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.7	0.94	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.94	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	23	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	0.94	ug/kg	
97-63-2	Ethyl methacrylate	ND	23	4.7	ug/kg	
76-13-1	Freon 113	ND	4.7	1.6	ug/kg	
591-78-6	2-Hexanone	ND	23	5.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	1.9	ug/kg	
110-54-3	Hexane	ND	4.7	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	23	5.2	ug/kg	
126-98-7	Methacrylonitrile	ND	23	8.6	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.4	1.0	ug/kg	
80-62-6	Methyl methacrylate	ND	4.7	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	1.4	ug/kg	
75-09-2	Methylene chloride	ND	9.4	4.3	ug/kg	
78-93-3	Methyl ethyl ketone	ND	23	5.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	23	4.7	ug/kg	
107-12-0	Propionitrile	ND	47	15	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.3	ug/kg	
100-42-5	Styrene	ND	4.7	2.4	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	0.94	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.94	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.1	ug/kg	

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	0.94	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	23	4.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	23	13	ug/kg	
	m,p-Xylene	ND	9.4	2.1	ug/kg	
95-47-6	o-Xylene	ND	4.7	0.94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	108%		71-130%
460-00-4	4-Bromofluorobenzene	110%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059195.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	400	ug/kg	
95-57-8	2-Chlorophenol	ND	230	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	90	ug/kg	
95-48-7	2-Methylphenol	ND	230	23	ug/kg	
	3&4-Methylphenol	ND	230	33	ug/kg	
88-75-5	2-Nitrophenol	ND	230	23	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	230	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	23	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	23	ug/kg	
83-32-9	Acenaphthene	ND	230	23	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	23	ug/kg	
92-87-5	Benzidine	ND	2300	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	23	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	230	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	230	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	230	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	230	45	ug/kg	
106-47-8	4-Chloroaniline	ND	230	23	ug/kg	
218-01-9	Chrysene	ND	230	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	230	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	230	23	ug/kg	

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	230	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	230	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	230	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	23	ug/kg	
132-64-9	Dibenzofuran	ND	230	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	90	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	230	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	90	ug/kg	
131-11-3	Dimethyl phthalate	ND	230	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	90	ug/kg	
206-44-0	Fluoranthene	ND	230	23	ug/kg	
86-73-7	Fluorene	ND	230	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	230	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	230	99	ug/kg	
67-72-1	Hexachloroethane	ND	230	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	23	ug/kg	
78-59-1	Isophorone	ND	230	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	23	ug/kg	
88-74-4	2-Nitroaniline	ND	230	45	ug/kg	
99-09-2	3-Nitroaniline	ND	230	45	ug/kg	
100-01-6	4-Nitroaniline	ND	230	45	ug/kg	
91-20-3	Naphthalene	ND	230	36	ug/kg	
98-95-3	Nitrobenzene	ND	230	23	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	230	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	23	ug/kg	
85-01-8	Phenanthrene	ND	230	23	ug/kg	
129-00-0	Pyrene	ND	230	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	79%		42-108%

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070761.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.15 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.3	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109624.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.9	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	93%		39-157%

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:	SS18-DP34-8		
Lab Sample ID:	F96004-1	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	73.6
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001188.D	1	09/05/12	NJ	08/27/12	OP43296	GNN57
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	5.34	11	4.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-108%

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: SS18-DP34-8
Lab Sample ID: F96004-1
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/16/12
Date Received: 08/17/12
Percent Solids: 73.6

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3810	53	6.4	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.1 J	2.7	0.53	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	32.9 J	53	2.7	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.27 U	1.3	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.53 U	2.1	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	193000	2700	53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	3.2 J	5.3	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.2 J	13	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.3 J	6.7	0.53	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	3370	80	8.8	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	1.3 J	11	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	2180	1300	27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	40.7	4.0	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	3.2 J	11	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	902 J	2700	130	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.1 U	11	2.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.27 U	2.7	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	333 J	2700	290	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.4 U	5.3	1.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	15.2	13	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	8.5 J	11	2.7	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23550

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4858.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	7.02 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	21	ug/kg	
75-05-8	Acetonitrile	ND	52	19	ug/kg	
107-02-8	Acrolein	ND	26	12	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.2	ug/kg	
71-43-2	Benzene	ND	5.2	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.2	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.2	ug/kg	
75-25-2	Bromoform	ND	5.2	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.2	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.5	ug/kg	

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.2	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.2	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.2	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.2	ug/kg	
76-13-1	Freon 113	ND	5.2	1.8	ug/kg	
591-78-6	2-Hexanone	ND	26	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/kg	
110-54-3	Hexane	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.8	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.6	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
74-88-4	Methyl iodide	ND	10	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.2	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.2	1.6	ug/kg	
75-09-2	Methylene chloride	ND	10	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.2	ug/kg	
107-12-0	Propionitrile	ND	52	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.5	ug/kg	
100-42-5	Styrene	ND	5.2	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.3	ug/kg	

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.0	ug/kg	
108-88-3	Toluene	ND	5.2	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	26	15	ug/kg	
	m,p-Xylene	ND	10	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-121%
2037-26-5	Toluene-D8	103%		71-130%
460-00-4	4-Bromofluorobenzene	106%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059196.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1200	430	ug/kg	
95-57-8	2-Chlorophenol	ND	240	24	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	24	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	31	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	490	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	490	97	ug/kg	
95-48-7	2-Methylphenol	ND	240	24	ug/kg	
	3&4-Methylphenol	ND	240	35	ug/kg	
88-75-5	2-Nitrophenol	ND	240	24	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	190	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	290	ug/kg	
108-95-2	Phenol	ND	240	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	24	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	24	ug/kg	
83-32-9	Acenaphthene	ND	240	24	ug/kg	
208-96-8	Acenaphthylene	ND	240	24	ug/kg	
120-12-7	Anthracene	ND	240	24	ug/kg	
92-87-5	Benzidine	ND	2400	490	ug/kg	
56-55-3	Benzo(a)anthracene	ND	240	24	ug/kg	
50-32-8	Benzo(a)pyrene	ND	240	24	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	240	24	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	240	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	240	24	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	24	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	49	ug/kg	
100-51-6	Benzyl Alcohol	ND	240	49	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	49	ug/kg	
106-47-8	4-Chloroaniline	ND	240	24	ug/kg	
218-01-9	Chrysene	ND	240	24	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	24	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	24	ug/kg	

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	24	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	49	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	49	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	49	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	240	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	240	29	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	490	49	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	240	24	ug/kg	
132-64-9	Dibenzofuran	ND	240	24	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	490	97	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	49	ug/kg	
84-66-2	Diethyl phthalate	ND	490	97	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	49	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	490	97	ug/kg	
206-44-0	Fluoranthene	ND	240	24	ug/kg	
86-73-7	Fluorene	ND	240	24	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	24	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	49	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	240	110	ug/kg	
67-72-1	Hexachloroethane	ND	240	49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	24	ug/kg	
78-59-1	Isophorone	ND	240	24	ug/kg	
91-57-6	2-Methylnaphthalene	ND	240	24	ug/kg	
88-74-4	2-Nitroaniline	ND	240	49	ug/kg	
99-09-2	3-Nitroaniline	ND	240	49	ug/kg	
100-01-6	4-Nitroaniline	ND	240	49	ug/kg	
91-20-3	Naphthalene	ND	240	39	ug/kg	
98-95-3	Nitrobenzene	ND	240	24	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	24	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	24	ug/kg	
85-01-8	Phenanthrene	ND	240	24	ug/kg	
129-00-0	Pyrene	ND	240	24	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	74%		42-108%

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070762.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.36 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.7	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109625.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	9.7	ug/kg	
11104-28-2	Aroclor 1221	ND	24	12	ug/kg	
11141-16-5	Aroclor 1232	ND	24	12	ug/kg	
53469-21-9	Aroclor 1242	ND	24	9.7	ug/kg	
12672-29-6	Aroclor 1248	ND	24	9.7	ug/kg	
11097-69-1	Aroclor 1254	ND	24	9.7	ug/kg	
11096-82-5	Aroclor 1260	ND	24	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		44-126%
2051-24-3	Decachlorobiphenyl	98%		39-157%

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:	SS18-DP42-5		
Lab Sample ID:	F96004-2	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	68.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001139.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	12	4.9	mg/kg	
	TPH (> C22-C36)	ND	12	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		49-108%

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: SS18-DP42-5
Lab Sample ID: F96004-2
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/16/12
Date Received: 08/17/12
Percent Solids: 68.1

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5020	70	8.4	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.4 U	14	1.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	2.5 J	3.5	0.70	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	48.3 J	70	3.5	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.35 U	1.7	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.70 U	2.8	0.70	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	176000	3500	70	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	4.1 J	7.0	0.70	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.9 J	17	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	3.2 J	8.7	0.70	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	4550	100	12	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	2.4 J	14	0.70	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	4490	1700	35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	60.2	5.2	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.012 U	0.12	0.012	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	4.5 J	14	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1320 J	3500	170	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.8 U	14	2.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.35 U	3.5	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	380 U	3500	380	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.8 U	7.0	1.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	16.5 J	17	0.35	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	11.5 J	14	3.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4859.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	6.88 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.3	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	106%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059197.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	400	ug/kg	
95-57-8	2-Chlorophenol	ND	230	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	29	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	91	ug/kg	
95-48-7	2-Methylphenol	ND	230	23	ug/kg	
	3&4-Methylphenol	ND	230	33	ug/kg	
88-75-5	2-Nitrophenol	ND	230	23	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	230	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	23	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	23	ug/kg	
83-32-9	Acenaphthene	ND	230	23	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	23	ug/kg	
92-87-5	Benzidine	ND	2300	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	23	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	230	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	230	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	230	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	230	45	ug/kg	
106-47-8	4-Chloroaniline	ND	230	23	ug/kg	
218-01-9	Chrysene	ND	230	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	230	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	230	23	ug/kg	

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	230	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	230	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	230	27	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	23	ug/kg	
132-64-9	Dibenzofuran	ND	230	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	91	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	230	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	91	ug/kg	
131-11-3	Dimethyl phthalate	ND	230	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	91	ug/kg	
206-44-0	Fluoranthene	ND	230	23	ug/kg	
86-73-7	Fluorene	ND	230	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	230	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	230	100	ug/kg	
67-72-1	Hexachloroethane	ND	230	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	23	ug/kg	
78-59-1	Isophorone	ND	230	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	23	ug/kg	
88-74-4	2-Nitroaniline	ND	230	45	ug/kg	
99-09-2	3-Nitroaniline	ND	230	45	ug/kg	
100-01-6	4-Nitroaniline	ND	230	45	ug/kg	
91-20-3	Naphthalene	ND	230	36	ug/kg	
98-95-3	Nitrobenzene	ND	230	23	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	230	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	23	ug/kg	
85-01-8	Phenanthrene	ND	230	23	ug/kg	
129-00-0	Pyrene	ND	230	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	64%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070763.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.63 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	8.1	4.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109626.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	23	11	ug/kg	
11141-16-5	Aroclor 1232	ND	23	11	ug/kg	
53469-21-9	Aroclor 1242	ND	23	9.2	ug/kg	
12672-29-6	Aroclor 1248	ND	23	9.2	ug/kg	
11097-69-1	Aroclor 1254	ND	23	9.2	ug/kg	
11096-82-5	Aroclor 1260	ND	23	9.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	99%		39-157%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	72.1
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001140.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.6	mg/kg	
	TPH (> C22-C36)	ND	11	4.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		49-108%

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:	SS18-DP43-5		
Lab Sample ID:	F96004-3	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	72.1
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	1350	44	5.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.8 U	18	1.8	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.8 J	2.2	0.44	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	34.0 J	44	2.2	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.22 U	1.1	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.89 U	3.6	0.89	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	248000	4400	89	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	1.0 J	8.9	0.89	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	0.73 J	11	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.5 J	5.6	0.44	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	1130	67	7.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.89 U	18	0.89	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	761 J	1100	22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	15.9	3.3	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	1.3 J	8.9	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	399 J	2200	110	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	3.6 U	18	3.6	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.22 U	2.2	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	240 U	2200	240	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	2.3 U	8.9	2.3	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	4.8 J	11	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	4.4 U	18	4.4	mg/kg	20	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4860.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	6.30 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	21	ug/kg	
75-05-8	Acetonitrile	ND	53	19	ug/kg	
107-02-8	Acrolein	ND	27	12	ug/kg	
107-13-1	Acrylonitrile	ND	27	12	ug/kg	
107-05-1	Allyl chloride	ND	27	5.3	ug/kg	
71-43-2	Benzene	ND	5.3	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.3	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.3	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.2	ug/kg	
75-25-2	Bromoform	ND	5.3	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.3	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	27	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.5	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	1.5	ug/kg	

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	27	5.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.3	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.3	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.3	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	27	5.3	ug/kg	
76-13-1	Freon 113	ND	5.3	1.8	ug/kg	
591-78-6	2-Hexanone	ND	27	5.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	2.1	ug/kg	
110-54-3	Hexane	ND	5.3	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	5.9	ug/kg	
126-98-7	Methacrylonitrile	ND	27	9.8	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.3	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.3	1.6	ug/kg	
75-09-2	Methylene chloride	ND	11	4.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	6.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	27	5.3	ug/kg	
107-12-0	Propionitrile	ND	53	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	1.5	ug/kg	
100-42-5	Styrene	ND	5.3	2.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.3	ug/kg	

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	1.1	ug/kg	
108-88-3	Toluene	ND	5.3	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	27	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	27	15	ug/kg	
	m,p-Xylene	ND	11	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.3	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	107%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059198.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	440	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	44	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	44	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	44	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	44	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	44	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	440	89	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	44	ug/kg	
84-66-2	Diethyl phthalate	ND	440	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	44	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	89	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	44	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	98	ug/kg	
67-72-1	Hexachloroethane	ND	220	44	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	44	ug/kg	
99-09-2	3-Nitroaniline	ND	220	44	ug/kg	
100-01-6	4-Nitroaniline	ND	220	44	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		40-102%
4165-62-2	Phenol-d5	60%		41-100%
118-79-6	2,4,6-Tribromophenol	70%		42-108%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		40-105%
321-60-8	2-Fluorobiphenyl	61%		43-107%
1718-51-0	Terphenyl-d14	72%		45-119%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070764.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.18 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.2	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109627.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	9.0	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	9.0	ug/kg	
12672-29-6	Aroclor 1248	ND	22	9.0	ug/kg	
11097-69-1	Aroclor 1254	ND	22	9.0	ug/kg	
11096-82-5	Aroclor 1260	ND	22	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	96%		39-157%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.3
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001141.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	ND	11	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		49-108%

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:	SS18-DP38-8		
Lab Sample ID:	F96004-4	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	74.3
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	4610	53	6.4	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.1 U	11	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.9 J	2.7	0.53	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	50.2 J	53	2.7	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.27 U	1.3	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.53 U	2.1	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	155000	2700	53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	4.7 J	5.3	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.8 J	13	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.9 J	6.7	0.53	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	4760	80	8.8	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	2.2 J	11	0.53	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	4440	1300	27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	65.6	4.0	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.0099 U	0.099	0.0099	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	4.9 J	11	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1090 J	2700	130	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.1 U	11	2.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.27 U	2.7	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	307 J	2700	290	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.4 U	5.3	1.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	13.5	13	0.27	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	12.1	11	2.7	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4861.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	6.47 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	21	ug/kg	
75-05-8	Acetonitrile	ND	52	19	ug/kg	
107-02-8	Acrolein	ND	26	11	ug/kg	
107-13-1	Acrylonitrile	ND	26	12	ug/kg	
107-05-1	Allyl chloride	ND	26	5.2	ug/kg	
71-43-2	Benzene	ND	5.2	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.2	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.2	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.1	ug/kg	
75-25-2	Bromoform	ND	5.2	1.6	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	1.4	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.2	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	26	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	1.5	ug/kg	

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.2	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.2	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.2	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	26	5.2	ug/kg	
76-13-1	Freon 113	ND	5.2	1.8	ug/kg	
591-78-6	2-Hexanone	ND	26	5.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/kg	
110-54-3	Hexane	ND	5.2	2.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	5.7	ug/kg	
126-98-7	Methacrylonitrile	ND	26	9.6	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.2	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.2	1.6	ug/kg	
75-09-2	Methylene chloride	ND	10	4.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	26	5.2	ug/kg	
107-12-0	Propionitrile	ND	52	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	1.5	ug/kg	
100-42-5	Styrene	ND	5.2	2.7	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.2	ug/kg	

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.0	ug/kg	
108-88-3	Toluene	ND	5.2	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	26	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	26	14	ug/kg	
	m,p-Xylene	ND	10	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	107%		71-130%
460-00-4	4-Bromofluorobenzene	105%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059199.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	45	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	89	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	89	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	98	ug/kg	
67-72-1	Hexachloroethane	ND	220	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	45	ug/kg	
99-09-2	3-Nitroaniline	ND	220	45	ug/kg	
100-01-6	4-Nitroaniline	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		40-102%
4165-62-2	Phenol-d5	57%		41-100%
118-79-6	2,4,6-Tribromophenol	67%		42-108%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		40-105%
321-60-8	2-Fluorobiphenyl	58%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070765.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.82 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.5	3.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109630.D	1	08/23/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.9	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		44-126%
2051-24-3	Decachlorobiphenyl	105%		39-157%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.2
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001142.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.5	mg/kg	
	TPH (> C22-C36)	ND	11	4.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-108%

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:	SS18-DP38-8-A		
Lab Sample ID:	F96004-5	**Date Sampled:**	08/16/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	74.2
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5000	47	5.7	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	0.95 U	9.5	0.95	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	2.7	2.4	0.47	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	56.9	47	2.4	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.24 U	1.2	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.47 U	1.9	0.47	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	179000	2400	47	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	5.7	4.7	0.47	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.9 J	12	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	3.0 J	5.9	0.47	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	5120	71	7.8	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	2.8 J	9.5	0.47	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	4860	1200	24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	71.2	3.6	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	5.1 J	9.5	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1140 J	2400	120	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	1.9 U	9.5	1.9	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.24 U	2.4	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	324 J	2400	260	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.2 U	4.7	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	14.7	12	0.24	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	13.5	9.5	2.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10082
(2) Instrument QC Batch: MA10086
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23522
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96004-6	**Date Sampled:**	08/16/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4862.D	1	08/18/12	EP	n/a	n/a	VY207
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96004-6	**Date Sampled:**	08/16/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96004-6	**Date Sampled:**	08/16/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	107%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96004

Page: 1 of 1

Project No: 11-0020

COC Number(1): 08162012 - 3

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP34-8		16-08-2012	0830	6 - 8	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP42-5		16-08-2012	0955	3 - 5	N		SO	6	X	X	X	X	X	X	X					
3	SS18-DP43-5		16-08-2012	1025	3 - 5	N		SO	6	X	X	X	X	X	X	X					
4	SS18-DP38-8		16-08-2012	0800	6 - 8	N		SO	6	X	X	X	X	X	X	X					
5	SS18-DP38-8-A		16-08-2012	0800	6 - 8	FD		SO	6	X	X	X	X	X	X	X					
6	Trip Blank				-	TB		SQ												1-315-002	
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Farrell	08/16/2012	1300	1. FX		
2. FX	8/17/12	9:30	2. [signature] ASE	8/17/12	9:30
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7987 5975 7692

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

3.2c

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.1

5

F96004: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96004 CLIENT: NATIONVIEW PROJECT: SS-18 SUPP. ACM

DATE/TIME RECEIVED: 08/17/12 9:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 5975 7692

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
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 5+TB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.2

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] 08/17/12 REVIEWER SIGNATURE/DATE JC 8-17-12

NF 12/10

receipt confirmation 122910.xls

F96004: Chain of Custody

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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

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-MB	Y4841.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-MB	Y4841.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-MB	Y4841.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	106%	77-123%

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-BS	Y4840.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	294	118	61-144
75-05-8	Acetonitrile	500	488	98	59-139
107-02-8	Acrolein	250	372	149	27-156
107-13-1	Acrylonitrile	250	252	101	55-144
107-05-1	Allyl chloride	50	47.4	95	41-152
71-43-2	Benzene	50	50.0	100	78-130
100-44-7	Benzyl Chloride	50	50.8	102	74-130
108-86-1	Bromobenzene	50	53.2	106	78-123
74-97-5	Bromochloromethane	50	45.2	90	72-122
75-27-4	Bromodichloromethane	50	49.7	99	73-122
75-25-2	Bromoform	50	50.9	102	70-139
104-51-8	n-Butylbenzene	50	50.2	100	80-138
135-98-8	sec-Butylbenzene	50	53.4	107	82-132
98-06-6	tert-Butylbenzene	50	52.3	105	79-130
108-90-7	Chlorobenzene	50	56.6	113	83-122
75-00-3	Chloroethane	50	53.8	108	61-153
67-66-3	Chloroform	50	47.4	95	79-129
544-10-5	1-Chlorohexane	50	45.0	90	85-137
95-49-8	o-Chlorotoluene	50	54.2	108	77-123
106-43-4	p-Chlorotoluene	50	55.2	110	78-129
110-75-8	2-Chloroethyl vinyl ether	250	254	102	52-142
75-15-0	Carbon disulfide	50	49.9	100	61-142
56-23-5	Carbon tetrachloride	50	44.0	88	79-135
75-34-3	1,1-Dichloroethane	50	47.7	95	77-132
75-35-4	1,1-Dichloroethylene	50	54.3	109	66-132
563-58-6	1,1-Dichloropropene	50	47.0	94	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	52.0	104	67-129
106-93-4	1,2-Dibromoethane	50	51.1	102	77-126
107-06-2	1,2-Dichloroethane	50	51.9	104	78-129
78-87-5	1,2-Dichloropropane	50	48.7	97	74-127
142-28-9	1,3-Dichloropropane	50	49.4	99	78-118
594-20-7	2,2-Dichloropropane	50	47.3	95	80-137
124-48-1	Dibromochloromethane	50	50.1	100	78-117
75-71-8	Dichlorodifluoromethane	50	51.8	104	35-162
156-59-2	cis-1,2-Dichloroethylene	50	48.3	97	74-123
10061-01-5	cis-1,3-Dichloropropene	50	46.7	93	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-BS	Y4840.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	60.6	121	71-126
541-73-1	m-Dichlorobenzene	50	54.7	109	82-126
95-50-1	o-Dichlorobenzene	50	56.2	112	83-123
106-46-7	p-Dichlorobenzene	50	51.7	103	84-124
156-60-5	trans-1,2-Dichloroethylene	50	47.5	95	77-129
10061-02-6	trans-1,3-Dichloropropene	50	54.2	108	87-131
100-41-4	Ethylbenzene	50	51.5	103	82-124
97-63-2	Ethyl methacrylate	50	51.8	104	78-118
76-13-1	Freon 113	50	45.6	91	62-147
591-78-6	2-Hexanone	250	272	109	67-130
87-68-3	Hexachlorobutadiene	50	49.6	99	77-150
110-54-3	Hexane	50	43.0	86	65-147
98-82-8	Isopropylbenzene	50	53.6	107	82-133
99-87-6	p-Isopropyltoluene	50	52.0	104	82-132
108-10-1	4-Methyl-2-pentanone	250	268	107	69-125
126-98-7	Methacrylonitrile	500	560	112	70-138
74-83-9	Methyl bromide	50	56.3	113	60-146
74-87-3	Methyl chloride	50	48.7	97	58-163
74-88-4	Methyl iodide	50	52.4	105	66-128
80-62-6	Methyl methacrylate	50	53.7	107	73-125
74-95-3	Methylene bromide	50	49.0	98	75-128
75-09-2	Methylene chloride	50	51.0	102	62-140
78-93-3	Methyl ethyl ketone	250	255	102	66-134
1634-04-4	Methyl Tert Butyl Ether	50	45.3	91	70-131
91-20-3	Naphthalene	50	50.0	100	59-143
76-01-7	Pentachloroethane	50	62.7	125	64-156
107-12-0	Propionitrile	500	510	102	73-133
103-65-1	n-Propylbenzene	50	54.4	109	78-129
100-42-5	Styrene	50	53.2	106	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	52.1	104	81-121
71-55-6	1,1,1-Trichloroethane	50	44.2	88	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	51.2	102	70-128
79-00-5	1,1,2-Trichloroethane	50	51.4	103	76-118
87-61-6	1,2,3-Trichlorobenzene	50	48.9	98	78-136
96-18-4	1,2,3-Trichloropropane	50	52.3	105	74-125
120-82-1	1,2,4-Trichlorobenzene	50	51.3	103	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY207-BS	Y4840.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	51.0	102	77-129
108-67-8	1,3,5-Trimethylbenzene	50	49.8	100	79-129
127-18-4	Tetrachloroethylene	50	51.6	103	79-132
108-88-3	Toluene	50	50.7	101	80-123
79-01-6	Trichloroethylene	50	49.4	99	78-132
75-69-4	Trichlorofluoromethane	50	50.9	102	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	56.1	112	74-138
75-01-4	Vinyl chloride	50	47.5	95	60-145
108-05-4	Vinyl Acetate	250	248	99	25-164
	m,p-Xylene	100	106	106	82-128
95-47-6	o-Xylene	50	53.5	107	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	105%	59-148%
17060-07-0	1,2-Dichloroethane-D4	104%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95612-4RMS	Y4846.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4RMSD	Y4847.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4R [a]	Y4845.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	F95612-4R ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		276	279	101	264	95	6	61-144/29
75-05-8	Acetonitrile	ND		552	476	86	457	82	4	59-139/30
107-02-8	Acrolein	ND		276	199	72	163	59	20	27-156/39
107-13-1	Acrylonitrile	ND		276	243	88	235	85	3	55-144/24
107-05-1	Allyl chloride	ND		55.2	49.5	90	50.6	91	2	41-152/24
71-43-2	Benzene	ND		55.2	52.1	94	50.9	92	2	78-130/25
100-44-7	Benzyl Chloride	ND		55.2	43.1	78	42.3	76	2	74-130/28
108-86-1	Bromobenzene	ND		55.2	54.3	98	55.4	100	2	78-123/30
74-97-5	Bromochloromethane	ND		55.2	48.0	87	47.1	85	2	72-122/23
75-27-4	Bromodichloromethane	ND		55.2	51.2	93	52.2	94	2	73-122/25
75-25-2	Bromoform	ND		55.2	47.7	86	47.6	86	0	70-139/26
104-51-8	n-Butylbenzene	ND		55.2	47.3	86	48.3	87	2	80-138/31
135-98-8	sec-Butylbenzene	ND		55.2	55.8	101	57.1	103	2	82-132/29
98-06-6	tert-Butylbenzene	ND		55.2	57.2	104	59.2	107	3	79-130/29
108-90-7	Chlorobenzene	ND		55.2	57.8	105	56.7	102	2	83-122/23
75-00-3	Chloroethane	ND		55.2	57.7	104	58.1	105	1	61-153/31
67-66-3	Chloroform	ND		55.2	50.1	91	49.6	89	1	79-129/27
544-10-5	1-Chlorohexane	ND		55.2	43.1	78*	42.6	77*	1	85-137/29
95-49-8	o-Chlorotoluene	ND		55.2	55.5	100	57.4	104	3	77-123/31
106-43-4	p-Chlorotoluene	ND		55.2	55.7	101	56.9	103	2	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		276	230	83	233	84	1	52-142/25
75-15-0	Carbon disulfide	ND		55.2	52.6	95	52.1	94	1	61-142/27
56-23-5	Carbon tetrachloride	ND		55.2	48.1	87	48.9	88	2	79-135/29
75-34-3	1,1-Dichloroethane	ND		55.2	51.3	93	51.1	92	0	77-132/26
75-35-4	1,1-Dichloroethylene	ND		55.2	58.8	106	58.2	105	1	66-132/27
563-58-6	1,1-Dichloropropene	ND		55.2	49.4	89	48.4	87	2	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		55.2	50.7	92	51.6	93	2	67-129/29
106-93-4	1,2-Dibromoethane	ND		55.2	50.2	91	49.2	89	2	77-126/24
107-06-2	1,2-Dichloroethane	ND		55.2	52.4	95	52.6	95	0	78-129/24
78-87-5	1,2-Dichloropropane	ND		55.2	52.6	95	49.7	90	6	74-127/27
142-28-9	1,3-Dichloropropane	ND		55.2	50.3	91	50.0	90	1	78-118/26
594-20-7	2,2-Dichloropropane	ND		55.2	47.2	85	46.5	84	1	80-137/28
124-48-1	Dibromochloromethane	ND		55.2	52.1	94	50.9	92	2	78-117/27
75-71-8	Dichlorodifluoromethane	ND		55.2	53.2	96	55.0	99	3	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		55.2	49.8	90	50.7	91	2	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		55.2	47.1	85	47.3	85	0	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95612-4RMS	Y4846.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4RMSD	Y4847.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4R [a]	Y4845.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	F95612-4R ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		55.2	58.3	106	58.3	105	0	71-126/28
541-73-1	m-Dichlorobenzene	ND		55.2	54.2	98	54.5	98	1	82-126/29
95-50-1	o-Dichlorobenzene	ND		55.2	54.2	98	53.5	96	1	83-123/28
106-46-7	p-Dichlorobenzene	ND		55.2	49.9	90	50.2	91	1	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		55.2	49.7	90	47.2	85	5	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		55.2	54.3	98	53.0	96	2	87-131/27
100-41-4	Ethylbenzene	ND		55.2	53.5	97	53.1	96	1	82-124/25
97-63-2	Ethyl methacrylate	ND		55.2	39.4	71*	38.5	69*	2	78-118/30
76-13-1	Freon 113	ND		55.2	49.0	89	48.5	87	1	62-147/29
591-78-6	2-Hexanone	ND		276	260	94	252	91	3	67-130/29
87-68-3	Hexachlorobutadiene	ND		55.2	39.5	72*	38.6	70*	2	77-150/36
110-54-3	Hexane	ND		55.2	35.1	64*	32.8	59*	7	65-147/27
98-82-8	Isopropylbenzene	ND		55.2	56.0	101	56.3	102	1	82-133/27
99-87-6	p-Isopropyltoluene	ND		55.2	54.1	98	55.7	100	3	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		276	269	97	260	94	3	69-125/24
126-98-7	Methacrylonitrile	ND		552	524	95	505	91	4	70-138/22
74-83-9	Methyl bromide	ND		55.2	56.8	103	58.3	105	3	60-146/31
74-87-3	Methyl chloride	ND		55.2	47.6	86	48.4	87	2	58-163/26
74-88-4	Methyl iodide	ND		55.2	54.5	99	53.7	97	1	66-128/27
80-62-6	Methyl methacrylate	ND		55.2	61.0	110	61.5	111	1	73-125/24
74-95-3	Methylene bromide	ND		55.2	51.3	93	50.4	91	2	75-128/26
75-09-2	Methylene chloride	5.3	J	55.2	52.5	85	51.4	83	2	62-140/25
78-93-3	Methyl ethyl ketone	ND		276	250	91	236	85	6	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		55.2	45.5	82	44.9	81	1	70-131/25
91-20-3	Naphthalene	ND		55.2	38.3	69	37.7	68	2	59-143/31
76-01-7	Pentachloroethane	ND		55.2	57.1	103	58.1	105	2	64-156/37
107-12-0	Propionitrile	ND		552	480	87	463	83	4	73-133/23
103-65-1	n-Propylbenzene	ND		55.2	57.0	103	59.2	107	4	78-129/29
100-42-5	Styrene	ND		55.2	51.6	93	51.6	93	0	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		55.2	55.9	101	53.3	96	5	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		55.2	47.4	86	48.4	87	2	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		55.2	53.5	97	53.3	96	0	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		55.2	51.5	93	54.4	98	5	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		55.2	38.8	70*	37.6	68*	3	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		55.2	52.6	95	53.8	97	2	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		55.2	40.6	73*	38.3	69*	6	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95612-4RMS	Y4846.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4RMSD	Y4847.D	1	08/17/12	EP	n/a	n/a	VY207
F95612-4R [a]	Y4845.D	1	08/17/12	EP	n/a	n/a	VY207

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5, F96004-6

CAS No.	Compound	F95612-4R ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		55.2	53.3	96	53.8	97	1	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		55.2	52.7	95	53.7	97	2	79-129/31
127-18-4	Tetrachloroethylene	ND		55.2	57.1	103	57.1	103	0	79-132/27
108-88-3	Toluene	ND		55.2	52.2	94	52.4	94	0	80-123/26
79-01-6	Trichloroethylene	ND		55.2	51.1	93	52.2	94	2	78-132/28
75-69-4	Trichlorofluoromethane	ND		55.2	53.9	98	54.9	99	2	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		55.2	52.6	95	50.9	92	3	74-138/30
75-01-4	Vinyl chloride	ND		55.2	51.3	93	52.2	94	2	60-145/29
108-05-4	Vinyl Acetate	ND		276	46.2	17*	37.4	13*	21	25-164/35
	m,p-Xylene	ND		110	108	98	109	98	1	82-128/25
95-47-6	o-Xylene	ND		55.2	56.2	102	55.5	100	1	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F95612-4R	Limits
1868-53-7	Dibromofluoromethane	99%	99%	102%	80-121%
2037-26-5	Toluene-D8	106%	106%	108%	71-130%
460-00-4	4-Bromofluorobenzene	105%	107%	117%	59-148%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	106%	77-123%

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	40-102%
4165-62-2	Phenol-d5	65%	41-100%

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	63%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2530	76	44-116
95-57-8	2-Chlorophenol	1670	1100	66	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1380	83	59-102
120-83-2	2,4-Dichlorophenol	1670	1270	76	60-101
105-67-9	2,4-Dimethylphenol	1670	1110	67	49-89
51-28-5	2,4-Dinitrophenol	3330	3110	93	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3210	96	58-109
95-48-7	2-Methylphenol	1670	1130	68	53-94
	3&4-Methylphenol	3330	2260	68	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2910	87	56-106
87-86-5	Pentachlorophenol	3330	2900	87	50-115
108-95-2	Phenol	1670	1160	70	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1240	74	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1230	74	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1450	87	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1500	90	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1420	85	56-103
207-08-9	Benzo(k)fluoranthene	1670	1480	89	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	60-104
85-68-7	Butyl benzyl phthalate	1670	1460	88	57-110
100-51-6	Benzyl Alcohol	1670	1230	74	51-102
91-58-7	2-Chloronaphthalene	1670	1170	70	57-95
106-47-8	4-Chloroaniline	1670	1270	76	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1060	64	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1060	64	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1060	64	47-91
541-73-1	1,3-Dichlorobenzene	1670	1030	62	45-86
106-46-7	1,4-Dichlorobenzene	1670	1070	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1380	83	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	57-105
132-64-9	Dibenzofuran	1670	1300	78	58-103
84-74-2	Di-n-butyl phthalate	1670	1430	86	59-105
117-84-0	Di-n-octyl phthalate	1670	1550	93	59-117
84-66-2	Diethyl phthalate	1670	1390	83	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1470	88	57-111
206-44-0	Fluoranthene	1670	1410	85	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1130	68	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1210	73	36-94
67-72-1	Hexachloroethane	1670	1060	64	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1480	89	57-104
78-59-1	Isophorone	1670	1060	64	58-97
91-57-6	2-Methylnaphthalene	1670	1230	74	57-103
88-74-4	2-Nitroaniline	1670	1340	80	53-106
99-09-2	3-Nitroaniline	1670	1270	76	29-85
100-01-6	4-Nitroaniline	1670	1410	85	49-104
91-20-3	Naphthalene	1670	1140	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1220	73	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	53-107
85-01-8	Phenanthrene	1670	1400	84	61-103
129-00-0	Pyrene	1670	1420	85	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1120	67	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4780	732	15*	884	18*	19	44-116/36
95-57-8	2-Chlorophenol	ND		2390	1530	64	1680	70	9	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2390	1820	76	1960	82	7	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2390	1710	72	1900	79	11	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2390	1570	66	1710	71	9	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4780	3110	65	3350	70	7	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4780	3930	82	4330	90	10	58-109/37
95-48-7	2-Methylphenol	ND		2390	1570	66	1730	72	10	53-94/29
	3&4-Methylphenol	ND		4780	3150	66	3460	72	9	54-95/31
88-75-5	2-Nitrophenol	ND		2390	1640	69	1800	75	9	55-96/30
100-02-7	4-Nitrophenol	ND		4780	3660	77	4030	84	10	56-106/29
87-86-5	Pentachlorophenol	ND		4780	3560	74	3950	82	10	50-115/33
108-95-2	Phenol	ND		2390	1630	68	1780	74	9	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2390	1760	74	1880	78	7	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2390	1710	72	1810	75	6	60-100/27
83-32-9	Acenaphthene	ND		2390	1700	71	1880	78	10	59-97/29
208-96-8	Acenaphthylene	ND		2390	1670	70	1780	74	6	58-98/30
120-12-7	Anthracene	ND		2390	1770	74	1900	79	7	61-104/29
92-87-5	Benzidine	ND		2390	1190	50	1270	53	7	10-151/50
56-55-3	Benzo(a)anthracene	ND		2390	1810	76	2000	83	10	60-106/31
50-32-8	Benzo(a)pyrene	ND		2390	1740	73	1870	78	7	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2390	1810	76	2000	83	10	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2390	1800	75	1900	79	5	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2390	1950	82	2050	85	5	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2390	1730	72	1930	80	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2390	1850	77	2030	85	9	57-110/28
100-51-6	Benzyl Alcohol	ND		2390	1660	69	1860	78	11	51-102/34
91-58-7	2-Chloronaphthalene	ND		2390	1600	67	1740	73	8	57-95/28
106-47-8	4-Chloroaniline	ND		2390	1740	73	1910	80	9	19-85/34
218-01-9	Chrysene	ND		2390	1840	77	2020	84	9	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2390	1640	69	1790	75	9	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2390	1470	61	1630	68	10	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2390	1500	63	1630	68	8	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2390	1760	74	1840	77	4	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2390	1470	61	1630	68	10	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2390	1420	59	1590	66	11	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

7.3.1

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CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2390	1470	61	1620	68	10	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2390	1760	74	1950	81	10	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2390	1790	75	1940	81	8	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2390	1700	71	1870	78	10	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2390	1840	77	1960	82	6	57-105/29
132-64-9	Dibenzofuran	ND		2390	1690	71	1850	77	9	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2390	1780	74	1950	81	9	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2390	1950	82	2170	90	11	59-117/28
84-66-2	Diethyl phthalate	ND		2390	1820	76	1930	80	6	59-106/27
131-11-3	Dimethyl phthalate	ND		2390	1760	74	1870	78	6	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2390	1830	77	2080	87	13	57-111/29
206-44-0	Fluoranthene	ND		2390	1800	75	1960	82	9	60-110/32
86-73-7	Fluorene	ND		2390	1770	74	1870	78	5	60-99/30
118-74-1	Hexachlorobenzene	ND		2390	1720	72	1910	80	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2390	1520	64	1700	71	11	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2390	1610	67	1810	75	12	36-94/41
67-72-1	Hexachloroethane	ND		2390	1410	59	1590	66	12	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2390	1880	79	1990	83	6	57-104/33
78-59-1	Isophorone	ND		2390	1420	59	1570	65	10	58-97/30
91-57-6	2-Methylnaphthalene	ND		2390	1640	69	1790	75	9	57-103/32
88-74-4	2-Nitroaniline	ND		2390	1740	73	1930	80	10	53-106/29
99-09-2	3-Nitroaniline	ND		2390	1710	72	1900	79	11	29-85/31
100-01-6	4-Nitroaniline	ND		2390	1810	76	1990	83	9	49-104/31
91-20-3	Naphthalene	ND		2390	1580	66	1760	73	11	54-93/32
98-95-3	Nitrobenzene	ND		2390	1540	64	1730	72	12	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2390	1680	70	1870	78	11	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2390	1800	75	1920	80	6	53-107/28
85-01-8	Phenanthrene	ND		2390	1800	75	1970	82	9	61-103/32
129-00-0	Pyrene	ND		2390	1800	75	2000	83	11	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2390	1540	64	1710	71	10	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
367-12-4	2-Fluorophenol	62%	66%	63%	40-102%
4165-62-2	Phenol-d5	64%	70%	68%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
118-79-6	2,4,6-Tribromophenol	71%	77%	79%	42-108%
4165-60-0	Nitrobenzene-d5	62%	68%	65%	40-105%
321-60-8	2-Fluorobiphenyl	65%	69%	69%	43-107%
1718-51-0	Terphenyl-d14	74%	82%	77%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3060-MB	QR070760.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	56-136%
98-08-8	aaa-Trifluorotoluene	105%	61-121%

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3060-BS	QR070759.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.3	92	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	56-136%
98-08-8	aaa-Trifluorotoluene	101%	61-121%

8.2.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96004-2MS	QR070949.D	1	08/25/12	MM	n/a	n/a	GQR3060
F96004-2MSD	QR070950.D	1	08/25/12	MM	n/a	n/a	GQR3060
F96004-2	QR070762.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	F96004-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		38.9	33.3	86	34.9	90	5	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96004-2	Limits
460-00-4	4-Bromofluorobenzene	100%	106%	102%	56-136%
98-08-8	aaa-Trifluorotoluene	98%	102%	104%	61-121%

8.3.1

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* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109619.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109645.D	1	08/23/12	MV	08/22/12	OP43235	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	105%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MB	NN001138.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	58%	49-108%

Method Blank Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MB	NN001187.D	1	09/05/12	NJ	08/27/12	OP43296	GNN57

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	49-108%

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-BS	ST109618.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	132	99	69-117
11096-82-5	Aroclor 1260	133	137	103	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	99%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-BS	NN001147.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	25.8	77	64-102
	TPH (> C22-C36)	33.3	27.8	83	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	84%	49-108%

9.2.2

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MS	ST109622.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
OP43235-MSD	ST109623.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
F96003-3	ST109621.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		191	171	90	183	95	7	69-117/26
11096-82-5	Aroclor 1260	ND		191	171	90	186	96	8	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
877-09-8	Tetrachloro-m-xylene	97%	98%	83%	44-126%
2051-24-3	Decachlorobiphenyl	99%	103%	87%	39-157%

9.3.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96004
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MS	NN001145.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
OP43296-MSD	NN001146.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
F96005-2	NN001144.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

CAS No.	Compound	F96005-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		42.3	27.9	66	29.1	70	4	64-102/32
	TPH (> C22-C36)	ND		42.3	28.1	66	29.5	71	5	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
84-15-1	o-Terphenyl	74%	80%	74%	49-108%

9.3.2

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2	0.53	<10
Antimony	1.0	.05	.1	0.0	<1.0
Arsenic	0.50	.05	.1	-0.070	<0.50
Barium	10	.05	.5	0.015	<10
Beryllium	0.25	.005	.05	-0.015	<0.25
Cadmium	0.20	.005	.05	-0.015	<0.20
Calcium	250	2.5	5	17.9	<250
Chromium	0.50	.05	.05	-0.0050	<0.50
Cobalt	2.5	.05	.05	-0.015	<2.5
Copper	1.3	.05	.1	-0.16	<1.3
Iron	15	1.7	1.7	2.2	<15
Lead	1.0	.05	.05	-0.0050	<1.0
Magnesium	250	2.5	5	1.1	<250
Manganese	0.75	.05	.05	0.015	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.025	<2.0
Potassium	500	2.5	25	-1.1	<500
Selenium	1.0	.1	.2	-0.040	<1.0
Silver	0.50	.05	.05	0.0050	<0.50
Sodium	500	38	55	0.020	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13	0.0050	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05	-0.0050	<2.5
Zinc	1.0	.05	.25	0.070	<1.0

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12 08/22/12

Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	3490	3260 (a)	6.8	0-20	3490	5760 (a)	1940	117.2	80-120
Antimony	0.72	0.85 (b)	16.6	0-20	0.72	16.8 (b)	35.9	44.8N(d)	80-120
Arsenic	1.5	1.6 (a)	6.5	0-20	1.5	164 (a)	143	113.2	80-120
Barium	36.0	33.1 (a)	8.4	0-20	36.0	192 (a)	143	108.7	80-120
Beryllium	0.088	0.041(a)	72.9 (c)	0-20	0.088	4.1 (a)	3.59	111.8	80-120
Cadmium	0.0	0.0 (b)	NC	0-20	0.0	2.8 (b)	3.59	78.1N(d)	80-120
Calcium	180000	182000	1.1	0-20	180000	179000	1790	-55.8(e)	80-120
Chromium	3.0	2.8 (b)	6.9	0-20	3.0	16.6 (b)	14.3	94.8	80-120
Cobalt	1.2	1.1 (a)	8.7	0-20	1.2	39.9 (a)	35.9	107.9	80-120
Copper	2.2	2.0 (a)	9.5	0-20	2.2	22.3 (a)	17.9	112.1	80-120
Iron	3150	3010 (a)	4.5	0-20	3150	5260 (a)	1870	113.1	80-120
Lead	1.1	1.4 (b)	24.0 (c)	0-20	1.1	32.9 (b)	35.9	88.6	80-120
Magnesium	2500	2310 (a)	7.9	0-20	2500	4350 (a)	1790	103.1	80-120
Manganese	78.1	67.7 (a)	14.3	0-20	78.1	112 (a)	35.9	94.5	80-120
Molybdenum									
Nickel	3.3	3.0 (a)	9.5	0-20	3.3	42.3 (a)	35.9	108.7	80-120
Potassium	811	760 (a)	6.5	0-20	811	2840 (a)	1790	113.1	80-120
Selenium	0.0	0.0 (b)	NC	0-20	0.0	138 (b)	143	96.2	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	3.7 (a)	3.59	103.1	80-120
Sodium	244	0.00 (a)	200.0(c)	0-20	244	2280 (a)	1790	113.5	80-120
Strontium									
Thallium	0.0	0.0 (b)	NC	0-20	0.0	114 (b)	143	79.4N(d)	80-120
Tin									
Titanium									
Vanadium	11.3	10.8 (a)	4.5	0-20	11.3	49.5 (a)	35.9	106.5	80-120
Zinc	8.2	7.6 (b)	7.6	0-20	8.2	41.6 (b)	35.9	93.1	80-120

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(e) 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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F96003-3 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	3490	5590 (a)	1690	124.5N(b	3.0	20
Antimony	0.72	17.0 (c)	31.2	52.1N(b)	1.2	20
Arsenic	1.5	150 (a)	125	118.9	8.9	20
Barium	36.0	178 (a)	125	113.7	7.6	20
Beryllium	0.088	3.7 (a)	3.12	115.6	10.3	20
Cadmium	0.0	2.6 (c)	3.12	83.2	7.4	20
Calcium	180000	196000	1560	1024.5(d	9.1	20
Chromium	3.0	15.8 (c)	12.5	102.5	4.9	20
Cobalt	1.2	36.1 (a)	31.2	111.7	10.0	20
Copper	2.2	20.8 (a)	15.6	119.1	7.0	20
Iron	3150	5080 (a)	1620	118.8	3.5	20
Lead	1.1	31.6 (c)	31.2	97.6	4.0	20
Magnesium	2500	4190 (a)	1560	108.2	3.7	20
Manganese	78.1	124 (a)	31.2	147.0N(b	10.2	20
Molybdenum						
Nickel	3.3	38.7 (a)	31.2	113.3	8.9	20
Potassium	811	2670 (a)	1560	119.0	6.2	20
Selenium	0.0	129 (c)	125	103.3	6.7	20
Silver	0.0	3.4 (a)	3.12	108.9	8.5	20
Sodium	244	2110 (a)	1560	119.5	7.7	20
Strontium						
Thallium	0.0	109 (c)	125	87.2	4.5	20
Tin						
Titanium						
Vanadium	11.3	46.2 (a)	31.2	111.7	6.9	20
Zinc	8.2	39.7 (c)	31.2	100.9	4.7	20

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

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) Sample dilution required due to sample matrix.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(c) Elevated reporting limit(s) due to matrix interference.
(d) 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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1470	1350	108.9	80-120
Antimony	26.4	25	105.6	80-120
Arsenic	106	100	106.0	80-120
Barium	110	100	110.0	80-120
Beryllium	2.8	2.5	112.0	80-120
Cadmium	2.7	2.5	108.0	80-120
Calcium	1410	1250	112.8	80-120
Chromium	11.1	10	111.0	80-120
Cobalt	27.8	25	111.2	80-120
Copper	13.5	12.5	108.0	80-120
Iron	1440	1300	110.8	80-120
Lead	25.7	25	102.8	80-120
Magnesium	1340	1250	107.2	80-120
Manganese	27.9	25	111.6	80-120
Molybdenum				
Nickel	28.2	25	112.8	80-120
Potassium	1350	1250	108.0	80-120
Selenium	105	100	105.0	80-120
Silver	2.5	2.5	100.0	80-120
Sodium	1360	1250	108.8	80-120
Strontium				
Thallium	105	100	105.0	80-120
Tin				
Titanium				
Vanadium	26.6	25	106.4	80-120
Zinc	27.8	25	111.2	80-120

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F96003-3 Original	SDL 5:25	%DIF	QC Limits
Aluminum	55300	54000	2.4	0-10
Antimony	11.4	0.00	100.0(a)	0-10
Arsenic	23.4	0.00	100.0(a)	0-10
Barium	571	560	1.8	0-10
Beryllium	1.40	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2850000	3380000	18.6*(b)	0-10
Chromium	48.3	84.5	74.9 (a)	0-10
Cobalt	19.4	0.00	100.0(a)	0-10
Copper	35.0	34.5	1.4	0-10
Iron	50000	50200	0.3	0-10
Lead	17.2	0.00	100.0(a)	0-10
Magnesium	39700	39200	1.1	0-10
Manganese	1240	1250	0.9	0-10
Molybdenum				
Nickel	51.6	46.5	9.9	0-10
Potassium	12900	11500	10.0	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	3870	0.00	100.0(a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	180	171	4.8	0-10
Zinc	130	176	34.9 (a)	0-10

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23522
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F96003-3 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	55340	54233.2	58650	0.2	125	2500	176.7*(a	80-120
Antimony	9.8	10	11.4	11.172	117.4	0.2	5	100	106.2	80-120
Arsenic	9.8	10	23.4	22.932	141.4	0.2	5	100	118.5	80-120
Barium	9.8	10	570.8	559.384	852.7	0.2	12.5	250	117.3	80-120
Beryllium	9.8	10	1.4	1.372	59.4	0.2	2.5	50	116.1	80-120
Cadmium	9.8	10	0	0	49.2	0.2	2.5	50	98.4	80-120
Calcium	9.8	10	2850000	2793000	2784000	0.2	250	5000	-180.0*a	80-120
Chromium	9.8	10	48.3	47.334	102.5	0.2	2.5	50	110.3	80-120
Cobalt	9.8	10	19.4	19.012	75.9	0.2	2.5	50	113.8	80-120
Copper	9.8	10	35	34.3	152.8	0.2	5	100	118.5	80-120
Iron	9.8	10	50010	49009.8	53490	0.2	150	3000	149.3*(a	80-120
Lead	9.8	10	17.2	16.856	68.7	0.2	2.5	50	103.7	80-120
Magnesium	9.8	10	39650	38857	45280	0.2	250	5000	128.5*(a	80-120
Manganese	9.8	10	1239	1214.22	1303	0.2	2.5	50	177.6*(a	80-120
Molybdenum										
Nickel	9.8	10	51.6	50.568	163.5	0.2	5	100	112.9	80-120
Potassium	9.8	10	12870	12612.6	24960	0.2	500	10000	123.5*(a	80-120
Selenium	9.8	10	0	0	103.6	0.2	5	100	103.6	80-120
Silver	9.8	10	0	0	52.4	0.2	2.5	50	104.8	80-120
Sodium	9.8	10	3870	3792.6	15760	0.2	500	10000	119.7	80-120
Strontium										
Thallium	9.8	10	0	0	108.4	0.2	5	100	108.4	80-120
Tin										
Titanium										
Vanadium	9.8	10	179.9	176.302	233.9	0.2	2.5	50	115.2	80-120
Zinc	9.8	10	130.3	127.694	424.2	0.2	12.5	250	118.6	80-120

Associated samples MP23522: F96004-1, F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23550: F96004-1

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96003-3 Original	DUP	RPD	QC Limits	F96003-3 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0052	0.0051	1.9	0-20	0.0052	0.40	0.34	116.2	80-120

Associated samples MP23550: F96004-1

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96003-3 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0052	0.39	0.34	113.3	2.5	20

Associated samples MP23550: F96004-1

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23550: F96004-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.2.3

10

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23550
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96003-3 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0463	0.00	100.0(a)	0-10

Associated samples MP23550: F96004-1

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).

10.2.4

10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23551: F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96005-2 Original	DUP	RPD	QC Limits	F96005-2 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0064	0.024	115.8(a)	0-20	0.0064	0.36	0.307	115.2	80-120

Associated samples MP23551: F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96005-2 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0064	0.34	0.293	113.9	5.7	20

Associated samples MP23551: F96004-2, F96004-3, F96004-4, F96004-5

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: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23551: F96004-2, F96004-3, F96004-4, F96004-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96004
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96005-2 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0628	0.00	100.0(a)	0-10

Associated samples MP23551: F96004-2, F96004-3, F96004-4, F96004-5

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

09/06/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F96005

Sampling Date: 08/15/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **114**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96005

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96005-1	08/15/12	15:10	ZBBP	08/17/12	SO	Soil	SS18-DP27-8
F96005-2	08/15/12	14:20	ZBBP	08/17/12	SO	Soil	SS18-DP25-8
F96005-2D	08/15/12	14:20	ZBBP	08/17/12	SO	Soil Dup/MSD	SS18-DP25-8
F96005-2S	08/15/12	14:20	ZBBP	08/17/12	SO	Soil Matrix Spike	SS18-DP25-8
F96005-3	08/15/12	16:05	ZBBP	08/17/12	SO	Soil	SS18-DP32-12
F96005-4	08/15/12	00:00	ZBBP	08/17/12	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96005

Site: Holloman AFB; SS18 **Report Date** 9/6/2012 8:48:48 PM

3 Samples and 1 Trip Blank were collected on 08/15/2012 and were received at Accutest on 08/17/2012 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F96005. 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: SO **Batch ID:** VY208

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloropropene, 1,2,4-Trichlorobenzene, 1-Chlorohexane, 2,2-Dichloropropane, Benzyl Chloride, Hexachlorobutadiene, Hexane, n-Butylbenzene, Pentachloroethane, Trans-1,4-Dichloro-2-Butene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1-Chlorohexane, 2,2-Dichloropropane, Benzyl Chloride, Ethyl methacrylate, Hexachlorobutadiene, Hexane, n-Butylbenzene, Pentachloroethane, Trans-1,4-Dichloro-2-Butene, Vinyl Acetate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for Vinyl Acetate are outside control limits for sample F96005-2MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43287

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: SO **Batch ID:** OP43294

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) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzoic Acid, Isophorone are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 3-Nitroaniline are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3060

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Sample(s) F96005-2 has surrogates outside control limits. Probable cause due to matrix interference.

F96005-2: Confirmation run.

Matrix: SO **Batch ID:** GQR3061

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F95942-7MS, F95942-7MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43296

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) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43235

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP43273

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) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

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) F96005-2DUP, F96005-2MS, F96005-2MSD, F96005-2PS, F96005-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Magnesium, Sodium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Antimony, Cadmium, Lead, Sodium, Thallium, Zinc are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Recovery(s) for Aluminum, Calcium, Iron 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 Arsenic, Lead, Sodium are outside control limits for sample MP23523-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Beryllium, Chromium, Cobalt, Copper, Nickel are outside control limits for sample MP23523-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23523-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP23523-SD1 for Potassium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

MP23523-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Thallium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F96005-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96005-1 for Barium: Sample dilution required due to sample matrix.

F96005-1 for Nickel: Sample dilution required due to sample matrix.

F96005-1 for Manganese: Sample dilution required due to sample matrix.

F96005-1 for Magnesium: Sample dilution required due to sample matrix.

F96005-1 for Iron: Sample dilution required due to sample matrix.

F96005-1 for Copper: Sample dilution required due to sample matrix.

F96005-1 for Beryllium: Sample dilution required due to sample matrix.

F96005-1 for Sodium: Sample dilution required due to sample matrix.

F96005-1 for Arsenic: Sample dilution required due to sample matrix.

F96005-1 for Aluminum: Sample dilution required due to sample matrix.

F96005-1 for Cobalt: Sample dilution required due to sample matrix.

F96005-1 for Potassium: Sample dilution required due to sample matrix.

F96005-1 for Silver: Sample dilution required due to sample matrix.

F96005-1 for Vanadium: Sample dilution required due to sample matrix.

F96005-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

F96005-2 for Arsenic: Sample dilution required due to sample matrix.
F96005-2 for Manganese: Sample dilution required due to sample matrix.
F96005-2 for Sodium: Sample dilution required due to sample matrix.
F96005-2 for Potassium: Sample dilution required due to sample matrix.
F96005-2 for Nickel: Sample dilution required due to sample matrix.
F96005-2 for Magnesium: Sample dilution required due to sample matrix.
F96005-2 for Iron: Sample dilution required due to sample matrix.
F96005-2 for Copper: Sample dilution required due to sample matrix.
F96005-2 for Cobalt: Sample dilution required due to sample matrix.
F96005-2 for Barium: Sample dilution required due to sample matrix.
F96005-2 for Aluminum: Sample dilution required due to sample matrix.
F96005-2 for Vanadium: Sample dilution required due to sample matrix.
F96005-2 for Beryllium: Sample dilution required due to sample matrix.
F96005-2 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Lead: Elevated reporting limit(s) due to matrix interference.
F96005-2 for Silver: Sample dilution required due to sample matrix.
F96005-2 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96005-3 for Zinc: Sample dilution required due to sample matrix.
F96005-3 for Sodium: Sample dilution required due to sample matrix.
F96005-3 for Thallium: Sample dilution required due to sample matrix.
F96005-3 for Silver: Sample dilution required due to sample matrix.
F96005-3 for Selenium: Sample dilution required due to sample matrix.
F96005-3 for Potassium: Sample dilution required due to sample matrix.
F96005-3 for Vanadium: Sample dilution required due to sample matrix.
F96005-3 for Magnesium: Sample dilution required due to sample matrix.
F96005-3 for Nickel: Sample dilution required due to sample matrix.
F96005-3 for Beryllium: Sample dilution required due to sample matrix.
F96005-3 for Lead: Sample dilution required due to sample matrix.
F96005-3 for Iron: Sample dilution required due to sample matrix.
F96005-3 for Copper: Sample dilution required due to sample matrix.
F96005-3 for Cobalt: Sample dilution required due to sample matrix.
F96005-3 for Chromium: Sample dilution required due to sample matrix.
F96005-3 for Cadmium: Sample dilution required due to sample matrix.
F96005-3 for Barium: Sample dilution required due to sample matrix.
F96005-3 for Arsenic: Sample dilution required due to sample matrix.
F96005-3 for Antimony: Sample dilution required due to sample matrix.
F96005-3 for Aluminum: Sample dilution required due to sample matrix.
F96005-3 for Manganese: Sample dilution required due to sample matrix.
F96005-3 for Calcium: Sample dilution required due to sample matrix.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23551

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.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23551

Sample(s) F96005-2MS, F96005-2MSD, F96005-2SDL, F96005-2DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23551-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23551-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51415

Sample(s) F96005-2DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN51475

Sample(s) F96005-3DUP was used as the QC samples for Solids, Percent.

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: September 6, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96005
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96005-1	**SS18-DP27-8**					
1,1-Dichloroethane		2.8 J	6.1	1.3	ug/kg	SW846 8260B
1,1-Dichloroethylene		10.9	6.1	1.7	ug/kg	SW846 8260B
Aluminum [a]		3480	51	6.1	mg/kg	SW846 6010C
Arsenic [a]		1.7 J	2.5	0.51	mg/kg	SW846 6010C
Barium [a]		28.6 J	51	2.5	mg/kg	SW846 6010C
Calcium		157000	2500	51	mg/kg	SW846 6010C
Chromium [b]		3.0 J	5.1	0.51	mg/kg	SW846 6010C
Cobalt [a]		1.1 J	13	0.25	mg/kg	SW846 6010C
Copper [a]		1.5 J	6.3	0.51	mg/kg	SW846 6010C
Iron [a]		2920	76	8.4	mg/kg	SW846 6010C
Magnesium [a]		2890	1300	25	mg/kg	SW846 6010C
Manganese [a]		37.4	3.8	0.25	mg/kg	SW846 6010C
Nickel [a]		2.5 J	10	0.25	mg/kg	SW846 6010C
Potassium [a]		880 J	2500	130	mg/kg	SW846 6010C
Sodium [a]		1350 J	2500	280	mg/kg	SW846 6010C
Vanadium [a]		9.2 J	13	0.25	mg/kg	SW846 6010C
Zinc [b]		7.0 J	10	2.5	mg/kg	SW846 6010C
F96005-2	**SS18-DP25-8**					
Aluminum [a]		5820	60	7.3	mg/kg	SW846 6010C
Arsenic [a]		1.9 J	3.0	0.60	mg/kg	SW846 6010C
Barium [a]		56.4 J	60	3.0	mg/kg	SW846 6010C
Calcium		171000	3000	60	mg/kg	SW846 6010C
Chromium [b]		5.6 J	6.0	0.60	mg/kg	SW846 6010C
Cobalt [a]		1.7 J	15	0.30	mg/kg	SW846 6010C
Copper [a]		2.4 J	7.6	0.60	mg/kg	SW846 6010C
Iron [a]		5210	91	10	mg/kg	SW846 6010C
Magnesium [a]		3520	1500	30	mg/kg	SW846 6010C
Manganese [a]		71.0	4.5	0.30	mg/kg	SW846 6010C
Nickel [a]		5.0 J	12	0.30	mg/kg	SW846 6010C
Potassium [a]		1330 J	3000	150	mg/kg	SW846 6010C
Vanadium [a]		13.3 J	15	0.30	mg/kg	SW846 6010C
Zinc [b]		11.3 J	12	3.0	mg/kg	SW846 6010C
F96005-3	**SS18-DP32-12**					
1,1-Dichloroethane		14.5	5.1	1.1	ug/kg	SW846 8260B
1,1-Dichloroethylene		6.4	5.1	1.4	ug/kg	SW846 8260B
Tetrachloroethylene		22.7	5.1	1.0	ug/kg	SW846 8260B
Toluene		1.8 J	5.1	1.2	ug/kg	SW846 8260B
Trichloroethylene		5.4	5.1	1.2	ug/kg	SW846 8260B
Aluminum [a]		6050	51	6.1	mg/kg	SW846 6010C

Summary of Hits

Job Number: F96005
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/15/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic [a]		3.2	2.5	0.51	mg/kg	SW846 6010C
Barium [a]		28.1 J	51	2.5	mg/kg	SW846 6010C
Calcium [a]		116000	1300	25	mg/kg	SW846 6010C
Chromium [a]		6.5	2.5	0.25	mg/kg	SW846 6010C
Cobalt [a]		2.0 J	13	0.25	mg/kg	SW846 6010C
Copper [a]		2.4 J	6.3	0.51	mg/kg	SW846 6010C
Iron [a]		5150	76	8.3	mg/kg	SW846 6010C
Lead [a]		2.8 J	5.1	0.25	mg/kg	SW846 6010C
Magnesium [a]		5120	1300	25	mg/kg	SW846 6010C
Manganese [a]		70.5	3.8	0.25	mg/kg	SW846 6010C
Nickel [a]		5.1 J	10	0.25	mg/kg	SW846 6010C
Potassium [a]		1360 J	2500	130	mg/kg	SW846 6010C
Sodium [a]		1370 J	2500	280	mg/kg	SW846 6010C
Vanadium [a]		18.6	13	0.25	mg/kg	SW846 6010C
Zinc [a]		12.7	5.1	1.3	mg/kg	SW846 6010C

F96005-4 **TRIP BLANK**

No hits reported in this sample.

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4881.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	5.79 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	61	24	ug/kg	
75-05-8	Acetonitrile	ND	61	22	ug/kg	
107-02-8	Acrolein	ND	30	13	ug/kg	
107-13-1	Acrylonitrile	ND	30	14	ug/kg	
107-05-1	Allyl chloride	ND	30	6.1	ug/kg	
71-43-2	Benzene	ND	6.1	1.8	ug/kg	
100-44-7	Benzyl Chloride	ND	6.1	1.8	ug/kg	
108-86-1	Bromobenzene	ND	6.1	1.7	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	1.7	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	1.3	ug/kg	
75-25-2	Bromoform	ND	6.1	1.8	ug/kg	
104-51-8	n-Butylbenzene	ND	6.1	1.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.1	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.1	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	1.2	ug/kg	
75-00-3	Chloroethane	ND	6.1	2.4	ug/kg	
67-66-3	Chloroform	ND	6.1	1.5	ug/kg	
544-10-5	1-Chlorohexane	ND	6.1	1.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.1	1.5	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.1	1.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	30	12	ug/kg	
75-15-0	Carbon disulfide	ND	6.1	2.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.1	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	2.8	6.1	1.3	ug/kg	J
75-35-4	1,1-Dichloroethylene	10.9	6.1	1.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.1	1.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.1	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.1	1.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.1	1.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.1	1.7	ug/kg	

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	6.1	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	1.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.1	1.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	1.2	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	30	6.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.1	1.5	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.1	1.3	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.1	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.1	1.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	6.1	1.2	ug/kg	
97-63-2	Ethyl methacrylate	ND	30	6.1	ug/kg	
76-13-1	Freon 113	ND	6.1	2.1	ug/kg	
591-78-6	2-Hexanone	ND	30	6.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	6.1	2.4	ug/kg	
110-54-3	Hexane	ND	6.1	2.3	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	1.3	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.1	1.5	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	30	6.7	ug/kg	
126-98-7	Methacrylonitrile	ND	30	11	ug/kg	
74-83-9	Methyl bromide	ND	6.1	2.4	ug/kg	
74-87-3	Methyl chloride	ND	6.1	2.4	ug/kg	
74-88-4	Methyl iodide	ND	12	1.3	ug/kg	
80-62-6	Methyl methacrylate	ND	6.1	2.2	ug/kg	
74-95-3	Methylene bromide	ND	6.1	1.8	ug/kg	
75-09-2	Methylene chloride	ND	12	5.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	30	7.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.1	2.4	ug/kg	
91-20-3	Naphthalene	ND	6.1	2.4	ug/kg	
76-01-7	Pentachloroethane	ND	30	6.1	ug/kg	
107-12-0	Propionitrile	ND	61	19	ug/kg	
103-65-1	n-Propylbenzene	ND	6.1	1.7	ug/kg	
100-42-5	Styrene	ND	6.1	3.2	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	6.1	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.1	1.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	1.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	1.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.1	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	1.5	ug/kg	

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	6.1	1.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.1	1.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.1	1.2	ug/kg	
108-88-3	Toluene	ND	6.1	1.5	ug/kg	
79-01-6	Trichloroethylene	ND	6.1	1.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	2.4	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	30	6.1	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	1.8	ug/kg	
108-05-4	Vinyl Acetate	ND	30	17	ug/kg	
	m,p-Xylene	ND	12	2.7	ug/kg	
95-47-6	o-Xylene	ND	6.1	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	108%		59-148%
17060-07-0	1,2-Dichloroethane-D4	105%		77-123%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059200.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1200	410	ug/kg	
95-57-8	2-Chlorophenol	ND	230	23	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	230	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	230	23	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	230	29	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	470	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	470	93	ug/kg	
95-48-7	2-Methylphenol	ND	230	23	ug/kg	
	3&4-Methylphenol	ND	230	34	ug/kg	
88-75-5	2-Nitrophenol	ND	230	23	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	190	ug/kg	
87-86-5	Pentachlorophenol	ND	1200	280	ug/kg	
108-95-2	Phenol	ND	230	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	230	23	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	230	23	ug/kg	
83-32-9	Acenaphthene	ND	230	23	ug/kg	
208-96-8	Acenaphthylene	ND	230	23	ug/kg	
120-12-7	Anthracene	ND	230	23	ug/kg	
92-87-5	Benzidine	ND	2300	470	ug/kg	
56-55-3	Benzo(a)anthracene	ND	230	23	ug/kg	
50-32-8	Benzo(a)pyrene	ND	230	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	230	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	230	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	230	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	230	23	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	230	47	ug/kg	
100-51-6	Benzyl Alcohol	ND	230	47	ug/kg	
91-58-7	2-Chloronaphthalene	ND	230	47	ug/kg	
106-47-8	4-Chloroaniline	ND	230	23	ug/kg	
218-01-9	Chrysene	ND	230	23	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	230	23	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	230	23	ug/kg	

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	230	23	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	47	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	47	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	47	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	230	23	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	230	28	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	470	47	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	230	23	ug/kg	
132-64-9	Dibenzofuran	ND	230	23	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	470	93	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	230	47	ug/kg	
84-66-2	Diethyl phthalate	ND	470	93	ug/kg	
131-11-3	Dimethyl phthalate	ND	230	47	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	470	93	ug/kg	
206-44-0	Fluoranthene	ND	230	23	ug/kg	
86-73-7	Fluorene	ND	230	23	ug/kg	
118-74-1	Hexachlorobenzene	ND	230	23	ug/kg	
87-68-3	Hexachlorobutadiene	ND	230	47	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	230	100	ug/kg	
67-72-1	Hexachloroethane	ND	230	47	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	230	23	ug/kg	
78-59-1	Isophorone	ND	230	23	ug/kg	
91-57-6	2-Methylnaphthalene	ND	230	23	ug/kg	
88-74-4	2-Nitroaniline	ND	230	47	ug/kg	
99-09-2	3-Nitroaniline	ND	230	47	ug/kg	
100-01-6	4-Nitroaniline	ND	230	47	ug/kg	
91-20-3	Naphthalene	ND	230	37	ug/kg	
98-95-3	Nitrobenzene	ND	230	23	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	230	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	230	23	ug/kg	
85-01-8	Phenanthrene	ND	230	23	ug/kg	
129-00-0	Pyrene	ND	230	23	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	230	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	69%		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070769.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.62 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	8.3	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		56-136%
98-08-8	aaa-Trifluorotoluene	102%		61-121%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109631.D	1	08/23/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	24	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	24	12	ug/kg	
11141-16-5	Aroclor 1232	ND	24	12	ug/kg	
53469-21-9	Aroclor 1242	ND	24	9.5	ug/kg	
12672-29-6	Aroclor 1248	ND	24	9.5	ug/kg	
11097-69-1	Aroclor 1254	ND	24	9.5	ug/kg	
11096-82-5	Aroclor 1260	ND	24	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		44-126%
2051-24-3	Decachlorobiphenyl	107%		39-157%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	71.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001143.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	12	4.7	mg/kg	
	TPH (> C22-C36)	ND	12	4.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		49-108%

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:	SS18-DP27-8		
Lab Sample ID:	F96005-1	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	71.0
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3480	51	6.1	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.0 U	10	1.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.7 J	2.5	0.51	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	28.6 J	51	2.5	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.25 U	1.3	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.51 U	2.0	0.51	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	157000	2500	51	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	3.0 J	5.1	0.51	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.1 J	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	1.5 J	6.3	0.51	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	2920	76	8.4	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.51 U	10	0.51	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	2890	1300	25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	37.4	3.8	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.011 U	0.11	0.011	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	2.5 J	10	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	880 J	2500	130	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.0 U	10	2.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.25 U	2.5	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	1350 J	2500	280	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.3 U	5.1	1.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	9.2 J	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	7.0 J	10	2.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10087
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23523
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4882.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	5.68 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	22	ug/kg	
75-05-8	Acetonitrile	ND	56	20	ug/kg	
107-02-8	Acrolein	ND	28	12	ug/kg	
107-13-1	Acrylonitrile	ND	28	13	ug/kg	
107-05-1	Allyl chloride	ND	28	5.6	ug/kg	
71-43-2	Benzene	ND	5.6	1.7	ug/kg	
100-44-7	Benzyl Chloride	ND	5.6	1.7	ug/kg	
108-86-1	Bromobenzene	ND	5.6	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	1.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	1.2	ug/kg	
75-25-2	Bromoform	ND	5.6	1.7	ug/kg	
104-51-8	n-Butylbenzene	ND	5.6	1.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	1.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.6	2.2	ug/kg	
67-66-3	Chloroform	ND	5.6	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.6	1.6	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	28	11	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	1.6	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	1.5	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.6	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	1.6	ug/kg	

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.6	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	1.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.6	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	28	5.6	ug/kg	
76-13-1	Freon 113	ND	5.6	1.9	ug/kg	
591-78-6	2-Hexanone	ND	28	6.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.6	2.2	ug/kg	
110-54-3	Hexane	ND	5.6	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.6	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	6.1	ug/kg	
126-98-7	Methacrylonitrile	ND	28	10	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.6	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.6	1.7	ug/kg	
75-09-2	Methylene chloride	ND	11	5.1	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	6.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	2.2	ug/kg	
76-01-7	Pentachloroethane	ND	28	5.6	ug/kg	
107-12-0	Propionitrile	ND	56	18	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	1.6	ug/kg	
100-42-5	Styrene	ND	5.6	2.9	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.6	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.3	ug/kg	

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	1.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	1.1	ug/kg	
108-88-3	Toluene	ND	5.6	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	2.2	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	28	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	28	16	ug/kg	
	m,p-Xylene	ND	11	2.5	ug/kg	
95-47-6	o-Xylene	ND	5.6	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	112%		59-148%
17060-07-0	1,2-Dichloroethane-D4	106%		77-123%

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1000	370	ug/kg	
95-57-8	2-Chlorophenol	ND	210	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	26	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	420	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	420	83	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	30	ug/kg	
88-75-5	2-Nitrophenol	ND	210	21	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	250	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	21	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
120-12-7	Anthracene	ND	210	21	ug/kg	
92-87-5	Benzidine	ND	2100	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	210	42	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	42	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	42	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	42	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	420	42	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	21	ug/kg	
132-64-9	Dibenzofuran	ND	210	21	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	42	ug/kg	
84-66-2	Diethyl phthalate	ND	420	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	42	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	83	ug/kg	
206-44-0	Fluoranthene	ND	210	21	ug/kg	
86-73-7	Fluorene	ND	210	21	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	42	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	92	ug/kg	
67-72-1	Hexachloroethane	ND	210	42	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	21	ug/kg	
78-59-1	Isophorone	ND	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	21	ug/kg	
88-74-4	2-Nitroaniline	ND	210	42	ug/kg	
99-09-2	3-Nitroaniline	ND	210	42	ug/kg	
100-01-6	4-Nitroaniline	ND	210	42	ug/kg	
91-20-3	Naphthalene	ND	210	33	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	21	ug/kg	
85-01-8	Phenanthrene	ND	210	21	ug/kg	
129-00-0	Pyrene	ND	210	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	73%		41-100%
118-79-6	2,4,6-Tribromophenol	81%		42-108%

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		40-105%
321-60-8	2-Fluorobiphenyl	64%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070784.D	1	08/21/12	MM	n/a	n/a	GQR3061
Run #2 [a]	QR070770.D	1	08/21/12	MM	n/a	n/a	GQR3060

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.80 g	5.0 ml	100 ul
Run #2	5.80 g	5.0 ml	100 ul

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.8	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	0%	56-136%
98-08-8	aaa-Trifluorotoluene	103%	0%	61-121%

(a) Confirmation run.

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109679.D	1	08/27/12	MV	08/24/12	OP43273	GST2643
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	8.4	ug/kg	
11104-28-2	Aroclor 1221	ND	21	11	ug/kg	
11141-16-5	Aroclor 1232	ND	21	11	ug/kg	
53469-21-9	Aroclor 1242	ND	21	8.4	ug/kg	
12672-29-6	Aroclor 1248	ND	21	8.4	ug/kg	
11097-69-1	Aroclor 1254	ND	21	8.4	ug/kg	
11096-82-5	Aroclor 1260	ND	21	8.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	95%		39-157%

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	78.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001144.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	10	4.2	mg/kg	
	TPH (> C22-C36)	ND	10	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		49-108%

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:	SS18-DP25-8		
Lab Sample ID:	F96005-2	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
		Percent Solids:	78.8
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5820	60	7.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.2 U	12	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	1.9 J	3.0	0.60	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	56.4 J	60	3.0	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.30 U	1.5	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.60 U	2.4	0.60	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	171000	3000	60	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	5.6 J	6.0	0.60	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.7 J	15	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	2.4 J	7.6	0.60	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	5210	91	10	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.60 U	12	0.60	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3520	1500	30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	71.0	4.5	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	5.0 J	12	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1330 J	3000	150	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.4 U	12	2.4	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.30 U	3.0	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	330 U	3000	330	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.6 U	6.0	1.6	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	13.3 J	15	0.30	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	11.3 J	12	3.0	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10087
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23523
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4885.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	6.19 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	20	ug/kg	
75-05-8	Acetonitrile	ND	51	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	12	ug/kg	
107-05-1	Allyl chloride	ND	25	5.1	ug/kg	
71-43-2	Benzene	ND	5.1	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.1	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.1	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	1.1	ug/kg	
75-25-2	Bromoform	ND	5.1	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.1	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.1	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.1	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.0	ug/kg	
67-66-3	Chloroform	ND	5.1	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.1	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.1	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.1	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	14.5	5.1	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	6.4	5.1	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.1	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.1	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.1	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.1	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.1	1.4	ug/kg	

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.1	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.1	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.1	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.1	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.1	ug/kg	
76-13-1	Freon 113	ND	5.1	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/kg	
110-54-3	Hexane	ND	5.1	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.1	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.6	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.3	ug/kg	
74-83-9	Methyl bromide	ND	5.1	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.1	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.1	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.1	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.1	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.1	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.1	ug/kg	
107-12-0	Propionitrile	ND	51	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.1	1.4	ug/kg	
100-42-5	Styrene	ND	5.1	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.1	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.1	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.2	ug/kg	

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.1	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.1	1.3	ug/kg	
127-18-4	Tetrachloroethylene	22.7	5.1	1.0	ug/kg	
108-88-3	Toluene	1.8	5.1	1.2	ug/kg	J
79-01-6	Trichloroethylene	5.4	5.1	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.1	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-121%
2037-26-5	Toluene-D8	104%		71-130%
460-00-4	4-Bromofluorobenzene	107%		59-148%
17060-07-0	1,2-Dichloroethane-D4	112%		77-123%

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059201.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1000	360	ug/kg	
95-57-8	2-Chlorophenol	ND	210	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	26	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	410	83	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	30	ug/kg	
88-75-5	2-Nitrophenol	ND	210	21	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	250	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	21	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
120-12-7	Anthracene	ND	210	21	ug/kg	
92-87-5	Benzidine	ND	2100	410	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	210	41	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	41	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	41	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	41	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	41	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	41	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	410	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	21	ug/kg	
132-64-9	Dibenzofuran	ND	210	21	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	41	ug/kg	
84-66-2	Diethyl phthalate	ND	410	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	83	ug/kg	
206-44-0	Fluoranthene	ND	210	21	ug/kg	
86-73-7	Fluorene	ND	210	21	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	41	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	91	ug/kg	
67-72-1	Hexachloroethane	ND	210	41	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	21	ug/kg	
78-59-1	Isophorone	ND	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	21	ug/kg	
88-74-4	2-Nitroaniline	ND	210	41	ug/kg	
99-09-2	3-Nitroaniline	ND	210	41	ug/kg	
100-01-6	4-Nitroaniline	ND	210	41	ug/kg	
91-20-3	Naphthalene	ND	210	33	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	21	ug/kg	
85-01-8	Phenanthrene	ND	210	21	ug/kg	
129-00-0	Pyrene	ND	210	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		40-102%
4165-62-2	Phenol-d5	60%		41-100%
118-79-6	2,4,6-Tribromophenol	72%		42-108%

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	74%		45-119%

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR070771.D	1	08/21/12	MM	n/a	n/a	GQR3060
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.97 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.5	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		56-136%
98-08-8	aaa-Trifluorotoluene	104%		61-121%

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109682.D	1	08/27/12	MV	08/24/12	OP43273	GST2643
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	8.2	ug/kg	
11104-28-2	Aroclor 1221	ND	21	10	ug/kg	
11141-16-5	Aroclor 1232	ND	21	10	ug/kg	
53469-21-9	Aroclor 1242	ND	21	8.2	ug/kg	
12672-29-6	Aroclor 1248	ND	21	8.2	ug/kg	
11097-69-1	Aroclor 1254	ND	21	8.2	ug/kg	
11096-82-5	Aroclor 1260	ND	21	8.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	99%		39-157%

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:	SS18-DP32-12		
Lab Sample ID:	F96005-3	**Date Sampled:**	08/15/12
Matrix:	SO - Soil	**Date Received:**	08/17/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	79.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001189.D	1	09/05/12	NJ	08/27/12	OP43296	GNN57
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	10	4.1	mg/kg	
	TPH (> C22-C36)	ND	10	4.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		49-108%

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: SS18-DP32-12
Lab Sample ID: F96005-3
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/15/12
Date Received: 08/17/12
Percent Solids: 79.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	6050	51	6.1	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Antimony [a]	0.51 U	5.1	0.51	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	3.2	2.5	0.51	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Barium [a]	28.1 J	51	2.5	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Beryllium [a]	0.25 U	1.3	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cadmium [a]	0.25 U	1.0	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Calcium [a]	116000	1300	25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Chromium [a]	6.5	2.5	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Cobalt [a]	2.0 J	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.4 J	6.3	0.51	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Iron [a]	5150	76	8.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.8 J	5.1	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Magnesium [a]	5120	1300	25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Manganese [a]	70.5	3.8	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Mercury	0.0096 U	0.096	0.0096	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [2]	SW846 7471B [4]
Nickel [a]	5.1 J	10	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Potassium [a]	1360 J	2500	130	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Selenium [a]	1.0 U	5.1	1.0	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Silver [a]	0.25 U	2.5	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Sodium [a]	1370 J	2500	280	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Thallium [a]	0.66 U	2.5	0.66	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Vanadium [a]	18.6	13	0.25	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]
Zinc [a]	12.7	5.1	1.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10090
(3) Prep QC Batch: MP23523
(4) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96005-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y4886.D	1	08/18/12	EP	n/a	n/a	VY208
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96005-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96005-4	**Date Sampled:**	08/15/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/17/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	106%		59-148%
17060-07-0	1,2-Dichloroethane-D4	106%		77-123%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96005

Page: 1 of 1

Project No: 11-0020

COC Number(1): 05162012 -1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP27-8		15-08-2012	1510	6 - 8	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP25-8		15-08-2012	1420	6 - 8	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP25-8-MS		15-08-2012	1420	6 - 8	MS		~~AA~~SO	6	X	X	X	X	X	X	X					
2	SS18-DP25-8-MSD		15-08-2012	1420	6 - 8	SD		~~S~~SO	6	X	X	X	X	X	X	X					
3	SS18-DP32-12		15-08-2012	1605	10 12	N		SO	6	X	X	X	X	X	X	X					
4	Trip Blank				-	TB		SQ													
					-															2-143-001	
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Hamil	08/16/2012	1300	1. FX		09:30
2.			2. Jerome Chase	8-17-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 798759757340

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.8

F96005: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96005 CLIENT: NATIONVIEW PROJECT: SS-18

DATE/TIME RECEIVED: 8-17-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 5475 7340

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
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? 5 FB

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.8

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 [signature] 8-17-12 REVIEWER SIGNATURE/DATE [signature] 08-17-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F96005: Chain of Custody

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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

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-MB	Y4866.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-121%
2037-26-5	Toluene-D8	105%	71-130%
460-00-4	4-Bromofluorobenzene	107%	59-148%
17060-07-0	1,2-Dichloroethane-D4	105%	77-123%

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	309	124	61-144
75-05-8	Acetonitrile	500	511	102	59-139
107-02-8	Acrolein	250	247	99	27-156
107-13-1	Acrylonitrile	250	206	82	55-144
107-05-1	Allyl chloride	50	49.9	100	41-152
71-43-2	Benzene	50	51.5	103	78-130
100-44-7	Benzyl Chloride	50	52.4	105	74-130
108-86-1	Bromobenzene	50	51.9	104	78-123
74-97-5	Bromochloromethane	50	46.0	92	72-122
75-27-4	Bromodichloromethane	50	50.5	101	73-122
75-25-2	Bromoform	50	48.9	98	70-139
104-51-8	n-Butylbenzene	50	53.8	108	80-138
135-98-8	sec-Butylbenzene	50	56.4	113	82-132
98-06-6	tert-Butylbenzene	50	55.3	111	79-130
108-90-7	Chlorobenzene	50	56.8	114	83-122
75-00-3	Chloroethane	50	58.3	117	61-153
67-66-3	Chloroform	50	48.4	97	79-129
544-10-5	1-Chlorohexane	50	47.6	95	85-137
95-49-8	o-Chlorotoluene	50	54.1	108	77-123
106-43-4	p-Chlorotoluene	50	56.3	113	78-129
110-75-8	2-Chloroethyl vinyl ether	250	251	100	52-142
75-15-0	Carbon disulfide	50	54.1	108	61-142
56-23-5	Carbon tetrachloride	50	50.2	100	79-135
75-34-3	1,1-Dichloroethane	50	48.6	97	77-132
75-35-4	1,1-Dichloroethylene	50	61.4	123	66-132
563-58-6	1,1-Dichloropropene	50	51.3	103	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	51.8	104	67-129
106-93-4	1,2-Dibromoethane	50	50.9	102	77-126
107-06-2	1,2-Dichloroethane	50	52.9	106	78-129
78-87-5	1,2-Dichloropropane	50	50.3	101	74-127
142-28-9	1,3-Dichloropropane	50	50.3	101	78-118
594-20-7	2,2-Dichloropropane	50	50.5	101	80-137
124-48-1	Dibromochloromethane	50	50.1	100	78-117
75-71-8	Dichlorodifluoromethane	50	64.8	130	35-162
156-59-2	cis-1,2-Dichloroethylene	50	48.4	97	74-123
10061-01-5	cis-1,3-Dichloropropene	50	46.4	93	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	58.4	117	71-126
541-73-1	m-Dichlorobenzene	50	55.5	111	82-126
95-50-1	o-Dichlorobenzene	50	56.9	114	83-123
106-46-7	p-Dichlorobenzene	50	52.8	106	84-124
156-60-5	trans-1,2-Dichloroethylene	50	50.1	100	77-129
10061-02-6	trans-1,3-Dichloropropene	50	53.4	107	87-131
100-41-4	Ethylbenzene	50	53.1	106	82-124
97-63-2	Ethyl methacrylate	50	51.7	103	78-118
76-13-1	Freon 113	50	56.9	114	62-147
591-78-6	2-Hexanone	250	288	115	67-130
87-68-3	Hexachlorobutadiene	50	53.8	108	77-150
110-54-3	Hexane	50	48.3	97	65-147
98-82-8	Isopropylbenzene	50	57.0	114	82-133
99-87-6	p-Isopropyltoluene	50	54.8	110	82-132
108-10-1	4-Methyl-2-pentanone	250	273	109	69-125
126-98-7	Methacrylonitrile	500	580	116	70-138
74-83-9	Methyl bromide	50	57.5	115	60-146
74-87-3	Methyl chloride	50	50.6	101	58-163
74-88-4	Methyl iodide	50	54.2	108	66-128
80-62-6	Methyl methacrylate	50	56.0	112	73-125
74-95-3	Methylene bromide	50	50.6	101	75-128
75-09-2	Methylene chloride	50	48.7	97	62-140
78-93-3	Methyl ethyl ketone	250	282	113	66-134
1634-04-4	Methyl Tert Butyl Ether	50	44.7	89	70-131
91-20-3	Naphthalene	50	51.7	103	59-143
76-01-7	Pentachloroethane	50	62.9	126	64-156
107-12-0	Propionitrile	500	552	110	73-133
103-65-1	n-Propylbenzene	50	56.9	114	78-129
100-42-5	Styrene	50	52.7	105	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	51.6	103	81-121
71-55-6	1,1,1-Trichloroethane	50	49.5	99	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	51.6	103	70-128
79-00-5	1,1,2-Trichloroethane	50	50.6	101	76-118
87-61-6	1,2,3-Trichlorobenzene	50	52.6	105	78-136
96-18-4	1,2,3-Trichloropropane	50	51.9	104	74-125
120-82-1	1,2,4-Trichlorobenzene	50	53.7	107	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY208-BS	Y4865.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	50.8	102	77-129
108-67-8	1,3,5-Trimethylbenzene	50	50.4	101	79-129
127-18-4	Tetrachloroethylene	50	54.6	109	79-132
108-88-3	Toluene	50	52.3	105	80-123
79-01-6	Trichloroethylene	50	51.4	103	78-132
75-69-4	Trichlorofluoromethane	50	61.3	123	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	54.6	109	74-138
75-01-4	Vinyl chloride	50	53.5	107	60-145
108-05-4	Vinyl Acetate	250	205	82	25-164
	m,p-Xylene	100	109	109	82-128
95-47-6	o-Xylene	50	54.1	108	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	104%	71-130%
460-00-4	4-Bromofluorobenzene	103%	59-148%
17060-07-0	1,2-Dichloroethane-D4	104%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96005-2MS	Y4883.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2MSD	Y4884.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2	Y4882.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		273	232	85	225	82	3	61-144/29
75-05-8	Acetonitrile	ND		546	444	81	400	73	10	59-139/30
107-02-8	Acrolein	ND		273	316	116	216	79	38	27-156/39
107-13-1	Acrylonitrile	ND		273	222	81	216	79	3	55-144/24
107-05-1	Allyl chloride	ND		54.6	45.7	84	46.7	85	2	41-152/24
71-43-2	Benzene	ND		54.6	50.2	92	51.1	93	2	78-130/25
100-44-7	Benzyl Chloride	ND		54.6	21.0	38*	20.6	38*	2	74-130/28
108-86-1	Bromobenzene	ND		54.6	51.9	95	53.3	97	3	78-123/30
74-97-5	Bromochloromethane	ND		54.6	47.1	86	46.2	84	2	72-122/23
75-27-4	Bromodichloromethane	ND		54.6	50.5	92	51.1	93	1	73-122/25
75-25-2	Bromoform	ND		54.6	46.6	85	45.9	84	2	70-139/26
104-51-8	n-Butylbenzene	ND		54.6	39.9	73*	42.1	77*	5	80-138/31
135-98-8	sec-Butylbenzene	ND		54.6	49.1	90	51.1	93	4	82-132/29
98-06-6	tert-Butylbenzene	ND		54.6	50.5	92	53.2	97	5	79-130/29
108-90-7	Chlorobenzene	ND		54.6	55.5	102	56.0	102	1	83-122/23
75-00-3	Chloroethane	ND		54.6	55.5	102	56.9	104	2	61-153/31
67-66-3	Chloroform	ND		54.6	48.8	89	50.2	92	3	79-129/27
544-10-5	1-Chlorohexane	ND		54.6	37.0	68*	38.5	70*	4	85-137/29
95-49-8	o-Chlorotoluene	ND		54.6	51.5	94	53.3	97	3	77-123/31
106-43-4	p-Chlorotoluene	ND		54.6	50.9	93	54.2	99	6	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		273	227	83	217	79	5	52-142/25
75-15-0	Carbon disulfide	ND		54.6	49.5	91	50.3	92	2	61-142/27
56-23-5	Carbon tetrachloride	ND		54.6	44.0	81	45.1	82	2	79-135/29
75-34-3	1,1-Dichloroethane	ND		54.6	48.7	89	49.9	91	2	77-132/26
75-35-4	1,1-Dichloroethylene	ND		54.6	54.0	99	57.1	104	6	66-132/27
563-58-6	1,1-Dichloropropene	ND		54.6	43.7	80*	45.1	82	3	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		54.6	47.6	87	44.7	82	6	67-129/29
106-93-4	1,2-Dibromoethane	ND		54.6	46.5	85	46.5	85	0	77-126/24
107-06-2	1,2-Dichloroethane	ND		54.6	52.2	96	50.4	92	4	78-129/24
78-87-5	1,2-Dichloropropane	ND		54.6	49.7	91	49.7	91	0	74-127/27
142-28-9	1,3-Dichloropropane	ND		54.6	49.2	90	48.2	88	2	78-118/26
594-20-7	2,2-Dichloropropane	ND		54.6	36.8	67*	37.0	68*	1	80-137/28
124-48-1	Dibromochloromethane	ND		54.6	50.1	92	49.5	90	1	78-117/27
75-71-8	Dichlorodifluoromethane	ND		54.6	45.3	83	47.8	87	5	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		54.6	48.6	89	48.5	89	0	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		54.6	43.7	80	43.8	80	0	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96005-2MS	Y4883.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2MSD	Y4884.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2	Y4882.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		54.6	45.5	83	45.4	83	0	71-126/28
541-73-1	m-Dichlorobenzene	ND		54.6	52.3	96	53.0	97	1	82-126/29
95-50-1	o-Dichlorobenzene	ND		54.6	52.6	96	54.5	99	4	83-123/28
106-46-7	p-Dichlorobenzene	ND		54.6	49.0	90	50.5	92	3	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		54.6	46.9	86	47.4	87	1	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		54.6	47.7	87	48.2	88	1	87-131/27
100-41-4	Ethylbenzene	ND		54.6	48.1	88	49.5	90	3	82-124/25
97-63-2	Ethyl methacrylate	ND		54.6	43.8	80	38.8	71*	12	78-118/30
76-13-1	Freon 113	ND		54.6	43.3	79	45.0	82	4	62-147/29
591-78-6	2-Hexanone	ND		273	237	87	226	82	5	67-130/29
87-68-3	Hexachlorobutadiene	ND		54.6	40.6	74*	41.1	75*	1	77-150/36
110-54-3	Hexane	ND		54.6	29.3	54*	31.0	57*	6	65-147/27
98-82-8	Isopropylbenzene	ND		54.6	49.4	90	51.5	94	4	82-133/27
99-87-6	p-Isopropyltoluene	ND		54.6	46.9	86	48.1	88	3	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		273	237	87	229	84	3	69-125/24
126-98-7	Methacrylonitrile	ND		546	502	92	479	87	5	70-138/22
74-83-9	Methyl bromide	ND		54.6	57.6	105	59.0	108	2	60-146/31
74-87-3	Methyl chloride	ND		54.6	43.7	80	46.5	85	6	58-163/26
74-88-4	Methyl iodide	ND		54.6	55.5	102	56.3	103	1	66-128/27
80-62-6	Methyl methacrylate	ND		54.6	52.2	96	52.2	95	0	73-125/24
74-95-3	Methylene bromide	ND		54.6	49.7	91	49.0	89	1	75-128/26
75-09-2	Methylene chloride	ND		54.6	50.6	93	49.9	91	1	62-140/25
78-93-3	Methyl ethyl ketone	ND		273	229	84	208	76	10	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		54.6	43.3	79	42.7	78	1	70-131/25
91-20-3	Naphthalene	ND		54.6	46.7	86	45.5	83	3	59-143/31
76-01-7	Pentachloroethane	ND		54.6	26.1	48*	24.8	45*	5	64-156/37
107-12-0	Propionitrile	ND		546	465	85	435	79	7	73-133/23
103-65-1	n-Propylbenzene	ND		54.6	50.2	92	52.9	97	5	78-129/29
100-42-5	Styrene	ND		54.6	48.6	89	51.5	94	6	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		54.6	51.3	94	53.0	97	3	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		54.6	45.4	83	45.4	83	0	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		54.6	47.2	86	47.9	87	1	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		54.6	51.1	94	49.4	90	3	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		54.6	45.1	83	46.3	84	3	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		54.6	48.4	89	48.3	88	0	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		54.6	43.7	80*	44.7	82	2	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96005-2MS	Y4883.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2MSD	Y4884.D	1	08/18/12	EP	n/a	n/a	VY208
F96005-2	Y4882.D	1	08/18/12	EP	n/a	n/a	VY208

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96005-1, F96005-2, F96005-3, F96005-4

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		54.6	47.8	88	49.5	90	3	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		54.6	46.8	86	48.2	88	3	79-129/31
127-18-4	Tetrachloroethylene	ND		54.6	68.3	125	70.0	128	2	79-132/27
108-88-3	Toluene	ND		54.6	49.1	90	50.3	92	2	80-123/26
79-01-6	Trichloroethylene	ND		54.6	49.0	90	49.6	91	1	78-132/28
75-69-4	Trichlorofluoromethane	ND		54.6	49.0	90	49.4	90	1	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		54.6	38.9	71*	39.0	71*	0	74-138/30
75-01-4	Vinyl chloride	ND		54.6	44.3	81	48.8	89	10	60-145/29
108-05-4	Vinyl Acetate	ND		273	91.8	34	61.6	22*	39*	25-164/35
	m,p-Xylene	ND		109	98.7	90	101	92	2	82-128/25
95-47-6	o-Xylene	ND		54.6	51.4	94	53.0	97	3	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
1868-53-7	Dibromofluoromethane	99%	99%	101%	80-121%
2037-26-5	Toluene-D8	104%	103%	104%	71-130%
460-00-4	4-Bromofluorobenzene	102%	102%	112%	59-148%
17060-07-0	1,2-Dichloroethane-D4	100%	97%	106%	77-123%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	40-102%
4165-62-2	Phenol-d5	65%	41-100%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MB	L059185.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	63%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	40-102%
4165-62-2	Phenol-d5	62%	41-100%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	68%	42-108%
4165-60-0	Nitrobenzene-d5	54%	40-105%
321-60-8	2-Fluorobiphenyl	53%	43-107%
1718-51-0	Terphenyl-d14	77%	45-119%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	40-102%
4165-62-2	Phenol-d5	60%	41-100%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	70%	42-108%
4165-60-0	Nitrobenzene-d5	58%	40-105%
321-60-8	2-Fluorobiphenyl	60%	43-107%
1718-51-0	Terphenyl-d14	75%	45-119%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	40-102%
4165-62-2	Phenol-d5	57%	41-100%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	71%	42-108%
4165-60-0	Nitrobenzene-d5	58%	40-105%
321-60-8	2-Fluorobiphenyl	62%	43-107%
1718-51-0	Terphenyl-d14	76%	45-119%

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2530	76	44-116
95-57-8	2-Chlorophenol	1670	1100	66	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1380	83	59-102
120-83-2	2,4-Dichlorophenol	1670	1270	76	60-101
105-67-9	2,4-Dimethylphenol	1670	1110	67	49-89
51-28-5	2,4-Dinitrophenol	3330	3110	93	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3210	96	58-109
95-48-7	2-Methylphenol	1670	1130	68	53-94
	3&4-Methylphenol	3330	2260	68	54-95
88-75-5	2-Nitrophenol	1670	1210	73	55-96
100-02-7	4-Nitrophenol	3330	2910	87	56-106
87-86-5	Pentachlorophenol	3330	2900	87	50-115
108-95-2	Phenol	1670	1160	70	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1240	74	60-100
83-32-9	Acenaphthene	1670	1280	77	59-97
208-96-8	Acenaphthylene	1670	1230	74	58-98
120-12-7	Anthracene	1670	1370	82	61-104
56-55-3	Benzo(a)anthracene	1670	1450	87	60-106
50-32-8	Benzo(a)pyrene	1670	1360	82	59-102
205-99-2	Benzo(b)fluoranthene	1670	1500	90	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1420	85	56-103
207-08-9	Benzo(k)fluoranthene	1670	1480	89	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	60-104
85-68-7	Butyl benzyl phthalate	1670	1460	88	57-110
100-51-6	Benzyl Alcohol	1670	1230	74	51-102
91-58-7	2-Chloronaphthalene	1670	1170	70	57-95
106-47-8	4-Chloroaniline	1670	1270	76	19-85
218-01-9	Chrysene	1670	1450	87	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1060	64	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1060	64	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1060	64	47-91
541-73-1	1,3-Dichlorobenzene	1670	1030	62	45-86
106-46-7	1,4-Dichlorobenzene	1670	1070	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1380	83	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1440	86	57-105
132-64-9	Dibenzofuran	1670	1300	78	58-103
84-74-2	Di-n-butyl phthalate	1670	1430	86	59-105
117-84-0	Di-n-octyl phthalate	1670	1550	93	59-117
84-66-2	Diethyl phthalate	1670	1390	83	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1470	88	57-111
206-44-0	Fluoranthene	1670	1410	85	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1360	82	58-103
87-68-3	Hexachlorobutadiene	1670	1130	68	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1210	73	36-94
67-72-1	Hexachloroethane	1670	1060	64	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1480	89	57-104
78-59-1	Isophorone	1670	1060	64	58-97
91-57-6	2-Methylnaphthalene	1670	1230	74	57-103
88-74-4	2-Nitroaniline	1670	1340	80	53-106
99-09-2	3-Nitroaniline	1670	1270	76	29-85
100-01-6	4-Nitroaniline	1670	1410	85	49-104
91-20-3	Naphthalene	1670	1140	68	54-93
98-95-3	Nitrobenzene	1670	1130	68	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1220	73	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	53-107
85-01-8	Phenanthrene	1670	1400	84	61-103
129-00-0	Pyrene	1670	1420	85	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1120	67	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	40-102%
4165-62-2	Phenol-d5	66%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-BS	L059184.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	66%	40-105%
321-60-8	2-Fluorobiphenyl	67%	43-107%
1718-51-0	Terphenyl-d14	86%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2240	67	44-116
95-57-8	2-Chlorophenol	1670	1190	71	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1310	79	59-102
120-83-2	2,4-Dichlorophenol	1670	1230	74	60-101
105-67-9	2,4-Dimethylphenol	1670	1080	65	49-89
51-28-5	2,4-Dinitrophenol	3330	2480	74	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	2700	81	58-109
95-48-7	2-Methylphenol	1670	1140	68	53-94
	3&4-Methylphenol	3330	2360	71	54-95
88-75-5	2-Nitrophenol	1670	1170	70	55-96
100-02-7	4-Nitrophenol	3330	2800	84	56-106
87-86-5	Pentachlorophenol	3330	2580	77	50-115
108-95-2	Phenol	1670	1180	71	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1200	72	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1150	69	60-100
83-32-9	Acenaphthene	1670	1230	74	59-97
208-96-8	Acenaphthylene	1670	1240	74	58-98
120-12-7	Anthracene	1670	1360	82	61-104
56-55-3	Benzo(a)anthracene	1670	1410	85	60-106
50-32-8	Benzo(a)pyrene	1670	1330	80	59-102
205-99-2	Benzo(b)fluoranthene	1670	1430	86	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1540	92	56-103
207-08-9	Benzo(k)fluoranthene	1670	1390	83	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1240	74	60-104
85-68-7	Butyl benzyl phthalate	1670	1670	100	57-110
100-51-6	Benzyl Alcohol	1670	1200	72	51-102
91-58-7	2-Chloronaphthalene	1670	1160	70	57-95
106-47-8	4-Chloroaniline	1670	1200	72	19-85
218-01-9	Chrysene	1670	1350	81	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1220	73	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1140	68	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1310	79	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1170	70	60-101
95-50-1	1,2-Dichlorobenzene	1670	1080	65	47-91
541-73-1	1,3-Dichlorobenzene	1670	1070	64	45-86
106-46-7	1,4-Dichlorobenzene	1670	1060	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1320	79	59-103
606-20-2	2,6-Dinitrotoluene	1670	1280	77	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1240	74	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1520	91	57-105
132-64-9	Dibenzofuran	1670	1230	74	58-103
84-74-2	Di-n-butyl phthalate	1670	1520	91	59-105
117-84-0	Di-n-octyl phthalate	1670	1610	97	59-117
84-66-2	Diethyl phthalate	1670	1440	86	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1620	97	57-111
206-44-0	Fluoranthene	1670	1370	82	60-110
86-73-7	Fluorene	1670	1300	78	60-99
118-74-1	Hexachlorobenzene	1670	1240	74	58-103
87-68-3	Hexachlorobutadiene	1670	966	58	49-95
77-47-4	Hexachlorocyclopentadiene	1670	954	57	36-94
67-72-1	Hexachloroethane	1670	1140	68	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1590	95	57-104
78-59-1	Isophorone	1670	1010	61	58-97
91-57-6	2-Methylnaphthalene	1670	1180	71	57-103
88-74-4	2-Nitroaniline	1670	1450	87	53-106
99-09-2	3-Nitroaniline	1670	1300	78	29-85
100-01-6	4-Nitroaniline	1670	1550	93	49-104
91-20-3	Naphthalene	1670	1110	67	54-93
98-95-3	Nitrobenzene	1670	1100	66	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1110	67	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1300	78	53-107
85-01-8	Phenanthrene	1670	1390	83	61-103
129-00-0	Pyrene	1670	1430	86	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1060	64	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	66%	40-102%
4165-62-2	Phenol-d5	69%	41-100%
118-79-6	2,4,6-Tribromophenol	77%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	62%	40-105%
321-60-8	2-Fluorobiphenyl	63%	43-107%
1718-51-0	Terphenyl-d14	82%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4780	732	15*	884	18*	19	44-116/36
95-57-8	2-Chlorophenol	ND		2390	1530	64	1680	70	9	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2390	1820	76	1960	82	7	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2390	1710	72	1900	79	11	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2390	1570	66	1710	71	9	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4780	3110	65	3350	70	7	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4780	3930	82	4330	90	10	58-109/37
95-48-7	2-Methylphenol	ND		2390	1570	66	1730	72	10	53-94/29
	3&4-Methylphenol	ND		4780	3150	66	3460	72	9	54-95/31
88-75-5	2-Nitrophenol	ND		2390	1640	69	1800	75	9	55-96/30
100-02-7	4-Nitrophenol	ND		4780	3660	77	4030	84	10	56-106/29
87-86-5	Pentachlorophenol	ND		4780	3560	74	3950	82	10	50-115/33
108-95-2	Phenol	ND		2390	1630	68	1780	74	9	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2390	1760	74	1880	78	7	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2390	1710	72	1810	75	6	60-100/27
83-32-9	Acenaphthene	ND		2390	1700	71	1880	78	10	59-97/29
208-96-8	Acenaphthylene	ND		2390	1670	70	1780	74	6	58-98/30
120-12-7	Anthracene	ND		2390	1770	74	1900	79	7	61-104/29
92-87-5	Benzidine	ND		2390	1190	50	1270	53	7	10-151/50
56-55-3	Benzo(a)anthracene	ND		2390	1810	76	2000	83	10	60-106/31
50-32-8	Benzo(a)pyrene	ND		2390	1740	73	1870	78	7	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2390	1810	76	2000	83	10	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2390	1800	75	1900	79	5	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2390	1950	82	2050	85	5	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2390	1730	72	1930	80	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2390	1850	77	2030	85	9	57-110/28
100-51-6	Benzyl Alcohol	ND		2390	1660	69	1860	78	11	51-102/34
91-58-7	2-Chloronaphthalene	ND		2390	1600	67	1740	73	8	57-95/28
106-47-8	4-Chloroaniline	ND		2390	1740	73	1910	80	9	19-85/34
218-01-9	Chrysene	ND		2390	1840	77	2020	84	9	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2390	1640	69	1790	75	9	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2390	1470	61	1630	68	10	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2390	1500	63	1630	68	8	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2390	1760	74	1840	77	4	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2390	1470	61	1630	68	10	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2390	1420	59	1590	66	11	45-86/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

7.3.1

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CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		2390	1470	61	1620	68	10	45-88/36
121-14-2	2,4-Dinitrotoluene	ND		2390	1760	74	1950	81	10	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2390	1790	75	1940	81	8	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2390	1700	71	1870	78	10	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2390	1840	77	1960	82	6	57-105/29
132-64-9	Dibenzofuran	ND		2390	1690	71	1850	77	9	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2390	1780	74	1950	81	9	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2390	1950	82	2170	90	11	59-117/28
84-66-2	Diethyl phthalate	ND		2390	1820	76	1930	80	6	59-106/27
131-11-3	Dimethyl phthalate	ND		2390	1760	74	1870	78	6	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2390	1830	77	2080	87	13	57-111/29
206-44-0	Fluoranthene	ND		2390	1800	75	1960	82	9	60-110/32
86-73-7	Fluorene	ND		2390	1770	74	1870	78	5	60-99/30
118-74-1	Hexachlorobenzene	ND		2390	1720	72	1910	80	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2390	1520	64	1700	71	11	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2390	1610	67	1810	75	12	36-94/41
67-72-1	Hexachloroethane	ND		2390	1410	59	1590	66	12	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2390	1880	79	1990	83	6	57-104/33
78-59-1	Isophorone	ND		2390	1420	59	1570	65	10	58-97/30
91-57-6	2-Methylnaphthalene	ND		2390	1640	69	1790	75	9	57-103/32
88-74-4	2-Nitroaniline	ND		2390	1740	73	1930	80	10	53-106/29
99-09-2	3-Nitroaniline	ND		2390	1710	72	1900	79	11	29-85/31
100-01-6	4-Nitroaniline	ND		2390	1810	76	1990	83	9	49-104/31
91-20-3	Naphthalene	ND		2390	1580	66	1760	73	11	54-93/32
98-95-3	Nitrobenzene	ND		2390	1540	64	1730	72	12	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2390	1680	70	1870	78	11	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2390	1800	75	1920	80	6	53-107/28
85-01-8	Phenanthrene	ND		2390	1800	75	1970	82	9	61-103/32
129-00-0	Pyrene	ND		2390	1800	75	2000	83	11	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2390	1540	64	1710	71	10	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
367-12-4	2-Fluorophenol	62%	66%	63%	40-102%
4165-62-2	Phenol-d5	64%	70%	68%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43287-MS	L059193.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
OP43287-MSD	L059194.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014
F96003-3	L059192.D	1	08/27/12	NAF	08/27/12	OP43287	SL3014

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-1, F96005-3

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
118-79-6	2,4,6-Tribromophenol	71%	77%	79%	42-108%
4165-60-0	Nitrobenzene-d5	62%	68%	65%	40-105%
321-60-8	2-Fluorobiphenyl	65%	69%	69%	43-107%
1718-51-0	Terphenyl-d14	74%	82%	77%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4220	1660	39*	1850	44	11	44-116/36
95-57-8	2-Chlorophenol	ND		2110	1430	68	1660	79	15	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2110	1490	71	1730	83	15	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2110	1460	69	1670	80	13	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2110	1310	62	1480	71	12	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4220	2290	54	2600	62	13	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4220	2950	70	3340	80	12	58-109/37
95-48-7	2-Methylphenol	ND		2110	1350	64	1590	76	16	53-94/29
	3&4-Methylphenol	ND		4220	2750	65	3200	76	15	54-95/31
88-75-5	2-Nitrophenol	ND		2110	1430	68	1660	79	15	55-96/30
100-02-7	4-Nitrophenol	ND		4220	3050	72	3590	86	16	56-106/29
87-86-5	Pentachlorophenol	ND		4220	2830	67	3140	75	10	50-115/33
108-95-2	Phenol	ND		2110	1420	67	1640	78	14	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2110	1400	66	1620	77	15	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2110	1370	65	1590	76	15	60-100/27
83-32-9	Acenaphthene	ND		2110	1460	69	1660	79	13	59-97/29
208-96-8	Acenaphthylene	ND		2110	1470	70	1690	81	14	58-98/30
120-12-7	Anthracene	ND		2110	1600	76	1780	85	11	61-104/29
56-55-3	Benzo(a)anthracene	ND		2110	1620	77	1830	87	12	60-106/31
50-32-8	Benzo(a)pyrene	ND		2110	1510	72	1700	81	12	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2110	1620	77	1800	86	11	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2110	1750	83	1940	93	10	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2110	1570	74	1800	86	14	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2110	1480	70	1650	79	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2110	1920	91	2130	102	10	57-110/28
100-51-6	Benzyl Alcohol	ND		2110	1460	69	1700	81	15	51-102/34
91-58-7	2-Chloronaphthalene	ND		2110	1420	67	1600	76	12	57-95/28
106-47-8	4-Chloroaniline	ND		2110	1510	72	1710	82	12	19-85/34
218-01-9	Chrysene	ND		2110	1550	74	1760	84	13	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2110	1480	70	1700	81	14	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2110	1390	66	1630	78	16	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2110	1660	79	1890	90	13	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2110	1380	65	1570	75	13	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2110	1340	64	1550	74	15	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2110	1330	63	1530	73	14	45-86/36
106-46-7	1,4-Dichlorobenzene	ND		2110	1330	63	1520	73	13	45-88/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		2110	1430	68	1700	81	17	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2110	1460	69	1660	79	13	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2110	1560	74	1750	84	11	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2110	1700	81	1940	93	13	57-105/29
132-64-9	Dibenzofuran	ND		2110	1490	71	1720	82	14	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2110	1710	81	1940	93	13	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2110	1840	87	2050	98	11	59-117/28
84-66-2	Diethyl phthalate	ND		2110	1610	76	1860	89	14	59-106/27
131-11-3	Dimethyl phthalate	ND		2110	1520	72	1750	84	14	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2110	1890	90	2150	103	13	57-111/29
206-44-0	Fluoranthene	ND		2110	1520	72	1740	83	13	60-110/32
86-73-7	Fluorene	ND		2110	1490	71	1730	83	15	60-99/30
118-74-1	Hexachlorobenzene	ND		2110	1470	70	1630	78	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2110	1190	56	1350	64	13	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2110	1150	55	1330	64	15	36-94/41
67-72-1	Hexachloroethane	ND		2110	1410	67	1640	78	15	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2110	1770	84	2000	96	12	57-104/33
78-59-1	Isophorone	ND		2110	1200	57*	1390	66	15	58-97/30
91-57-6	2-Methylnaphthalene	ND		2110	1430	68	1670	80	15	57-103/32
88-74-4	2-Nitroaniline	ND		2110	1710	81	1980	95	15	53-106/29
99-09-2	3-Nitroaniline	ND		2110	1540	73	1810	86*	16	29-85/31
100-01-6	4-Nitroaniline	ND		2110	1750	83	2040	97	15	49-104/31
91-20-3	Naphthalene	ND		2110	1350	64	1540	74	13	54-93/32
98-95-3	Nitrobenzene	ND		2110	1320	63	1520	73	14	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2110	1350	64	1570	75	15	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2110	1520	72	1690	81	11	53-107/28
85-01-8	Phenanthrene	ND		2110	1630	77	1820	87	11	61-103/32
129-00-0	Pyrene	ND		2110	1700	81	1840	88	8	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2110	1320	63	1490	71	12	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
367-12-4	2-Fluorophenol	66%	76%	66%	40-102%
4165-62-2	Phenol-d5	68%	79%	73%	41-100%
118-79-6	2,4,6-Tribromophenol	72%	82%	81%	42-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96005-2

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
4165-60-0	Nitrobenzene-d5	63%	71%	63%	40-105%
321-60-8	2-Fluorobiphenyl	62%	71%	64%	43-107%
1718-51-0	Terphenyl-d14	79%	87%	91%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3060-MB	QR070760.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	56-136%
98-08-8	aaa-Trifluorotoluene	105%	61-121%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3061-MB	QR070778.D	1	08/21/12	MM	n/a	n/a	GQR3061

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	107%	56-136%
98-08-8	aaa-Trifluorotoluene	111%	61-121%

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3060-BS	QR070759.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.3	92	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	56-136%
98-08-8	aaa-Trifluorotoluene	101%	61-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3061-BS	QR070777.D	1	08/21/12	MM	n/a	n/a	GQR3061

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.1	96	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	56-136%
98-08-8	aaa-Trifluorotoluene	104%	61-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96005-2MS	QR070772.D	1	08/21/12	MM	n/a	n/a	GQR3060
F96005-2MSD	QR070773.D	1	08/21/12	MM	n/a	n/a	GQR3060
F96005-2 [a]	QR070770.D	1	08/21/12	MM	n/a	n/a	GQR3060

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-3

CAS No.	Compound	F96005-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		27.3	22.8	84	24.3	89	6	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	0%*	56-136%
98-08-8	aaa-Trifluorotoluene	104%	102%	0%*	61-121%

(a) Confirmation run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F95942-7MS	QR070804.D	1	08/22/12	MM	n/a	n/a	GQR3061
F95942-7MSD	QR070805.D	1	08/22/12	MM	n/a	n/a	GQR3061
F95942-7	QR070785.D	1	08/21/12	MM	n/a	n/a	GQR3061

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-2

CAS No.	Compound	F95942-7 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	6.6	U	26.3	21.9	83	23.1	88	5	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F95942-7	Limits
460-00-4	4-Bromofluorobenzene	102%	105%	103%	56-136%
98-08-8	aaa-Trifluorotoluene	100%	104%	104%	61-121%

8.3.2

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* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109619.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109645.D	1	08/23/12	MV	08/22/12	OP43235	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	105%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43273-MB	ST109677.D	1	08/27/12	MV	08/24/12	OP43273	GST2643

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-2, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	108%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43273-MB	ST109704.D	1	08/29/12	MV	08/24/12	OP43273	GST2644

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-2, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	108%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MB	NN001138.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-2, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	58%	49-108%

Method Blank Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MB	NN001187.D	1	09/05/12	NJ	08/27/12	OP43296	GNN57

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-2, F96005-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	49-108%

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-BS	ST109618.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	132	99	69-117
11096-82-5	Aroclor 1260	133	137	103	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	99%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43273-BS	ST109676.D	1	08/27/12	MV	08/24/12	OP43273	GST2643

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-2, F96005-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	129	97	69-117
11096-82-5	Aroclor 1260	133	132	99	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	96%	44-126%
2051-24-3	Decachlorobiphenyl	104%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-BS	NN001147.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-2, F96005-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	25.8	77	64-102
	TPH (> C22-C36)	33.3	27.8	83	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	84%	49-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MS	ST109622.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
OP43235-MSD	ST109623.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
F96003-3	ST109621.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-1

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		191	171	90	183	95	7	69-117/26
11096-82-5	Aroclor 1260	ND		191	171	90	186	96	8	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
877-09-8	Tetrachloro-m-xylene	97%	98%	83%	44-126%
2051-24-3	Decachlorobiphenyl	99%	103%	87%	39-157%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43273-MS	ST109680.D	1	08/27/12	MV	08/24/12	OP43273	GST2643
OP43273-MSD	ST109681.D	1	08/27/12	MV	08/24/12	OP43273	GST2643
F96005-2	ST109679.D	1	08/27/12	MV	08/24/12	OP43273	GST2643

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96005-2, F96005-3

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		170	172	101	152	89	12	69-117/26
11096-82-5	Aroclor 1260	ND		170	163	96	161	95	1	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
877-09-8	Tetrachloro-m-xylene	95%	88%	93%	44-126%
2051-24-3	Decachlorobiphenyl	101%	97%	95%	39-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96005
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43296-MS	NN001145.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
OP43296-MSD	NN001146.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55
F96005-2	NN001144.D	1	08/31/12	NMC	08/27/12	OP43296	GNN55

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96005-1, F96005-2, F96005-3

CAS No.	Compound	F96005-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		42.3	27.9	66	29.1	70	4	64-102/32
	TPH (> C22-C36)	ND		42.3	28.1	66	29.5	71	5	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
84-15-1	o-Terphenyl	74%	80%	74%	49-108%

9.3.3

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1.2	1.2	0.24	<10
Antimony	1.0	.05	.1	-0.010	<1.0
Arsenic	0.50	.05	.1	-0.075	<0.50
Barium	10	.2	.5	-0.010	<10
Beryllium	0.25	.005	.05	-0.010	<0.25
Cadmium	0.20	.005	.05	-0.0050	<0.20
Calcium	250	2.5	5	25.1	<250
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.05	.05	-0.0050	<2.5
Copper	1.3	.05	.1	-0.090	<1.3
Iron	15	1.2	1.7	1.3	<15
Lead	1.0	.05	.05	0.0	<1.0
Magnesium	250	2.5	5	0.23	<250
Manganese	0.75	.05	.05	0.020	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.020	<2.0
Potassium	500	2.5	25	0.23	<500
Selenium	1.0	.1	.2	-0.035	<1.0
Silver	0.50	.05	.05	-0.010	<0.50
Sodium	500	43	55	0.44	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.075	.13	-0.080	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.05	.1		
Vanadium	2.5	.05	.05	0.0	<2.5
Zinc	1.0	.05	.25	0.13	<1.0

Associated samples MP23523: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			08/22/12					08/22/12	
Metal	F96005-2 Original	DUP	RPD	QC Limits	F96005-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	5820	5150 (a)	12.2	0-20	5820	6790 (a)	1350	71.9 (d)	80-120
Antimony	0.0	0.0 (b)	NC	0-20	0.0	10.2 (b)	25	40.8N(e)	80-120
Arsenic	1.9	1.5 (a)	23.5 (c)	0-20	1.9	110 (a)	99.9	108.2	80-120
Barium	56.4	52.1 (a)	7.9	0-20	56.4	169 (a)	99.9	112.7	80-120
Beryllium	0.22	0.22 (a)	0.0	0-20	0.22	2.7 (a)	2.5	99.3	80-120
Cadmium	0.0	0.0 (b)	NC	0-20	0.0	2.3 (b)	2.5	92.1	80-120
Calcium	171000	162000	5.4	0-20	171000	175000	1250	320.2(d)	80-120
Chromium	5.6	5.2 (b)	7.4	0-20	5.6	16.3 (b)	9.99	107.1	80-120
Cobalt	1.7	1.5 (a)	12.5	0-20	1.7	27.2 (a)	25	102.1	80-120
Copper	2.4	2.2 (a)	8.7	0-20	2.4	15.5 (a)	12.5	104.9	80-120
Iron	5210	4660 (a)	11.1	0-20	5210	5930 (a)	1300	55.4 (d)	80-120
Lead	0.0	1.2 (b)	200.0(c)	0-20	0.0	25.7 (b)	25	102.9	80-120
Magnesium	3520	3030 (a)	15.0	0-20	3520	4210 (a)	1250	55.2N(e)	80-120
Manganese	71.0	61.2 (a)	14.8	0-20	71.0	95.3 (a)	25	97.3	80-120
Molybdenum									
Nickel	5.0	4.4 (a)	12.8	0-20	5.0	29.8 (a)	25	99.3	80-120
Potassium	1330	1200 (a)	10.3	0-20	1330	2650 (a)	1250	105.7	80-120
Selenium	0.0	0.0 (b)	NC	0-20	0.0	106 (b)	99.9	106.1	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.4 (a)	2.5	96.1	80-120
Sodium	0.00	220 (a)	200.0(c)	0-20	0.00	1720 (a)	1250	137.7N(e	80-120
Strontium									
Thallium	0.0	0.0 (b)	NC	0-20	0.0	87.5 (b)	99.9	87.6	80-120
Tin									
Titanium									
Vanadium	13.3	12.2 (a)	8.6	0-20	13.3	37.0 (a)	25	94.9	80-120
Zinc	11.3	10.2 (b)	10.2	0-20	11.3	37.3 (b)	25	104.1	80-120

Associated samples MP23523: F96005-1, F96005-2, F96005-3

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F96005-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	5820	7730 (a)	1620	118.2	12.9	20
Antimony	0.0	9.7 (b)	29.9	32.4N(c)	5.0	20
Arsenic	1.9	119 (a)	120	97.8	7.9	20
Barium	56.4	162 (a)	120	88.2	4.2	20
Beryllium	0.22	3.0 (a)	2.99	92.9	10.5	20
Cadmium	0.0	2.2 (b)	2.99	73.5N(c)	4.4	20
Calcium	171000	162000	1500	-601.4(d	7.7	20
Chromium	5.6	15.6 (b)	12	83.5	4.4	20
Cobalt	1.7	30.0 (a)	29.9	94.6	9.8	20
Copper	2.4	17.0 (a)	15	97.6	9.2	20
Iron	5210	6760 (a)	1560	99.6	13.1	20
Lead	0.0	22.7 (b)	29.9	75.8N(c)	12.4	20
Magnesium	3520	5110 (a)	1500	106.2	19.3	20
Manganese	71.0	102 (a)	29.9	103.6	6.8	20
Molybdenum						
Nickel	5.0	33.1 (a)	29.9	93.9	10.5	20
Potassium	1330	3050 (a)	1500	114.9	14.0	20
Selenium	0.0	97.2 (b)	120	81.2	8.7	20
Silver	0.0	2.5 (a)	2.99	83.5	4.1	20
Sodium	0.00	2000 (a)	1500	133.6N(c	15.1	20
Strontium						
Thallium	0.0	81.2 (b)	120	67.8N(c)	7.5	20
Tin						
Titanium						
Vanadium	13.3	41.2 (a)	29.9	93.2	10.7	20
Zinc	11.3	34.6 (b)	29.9	77.8N(c)	7.5	20

Associated samples MP23523: F96005-1, F96005-2, F96005-3

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(d) 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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1380	1350	102.2	80-120
Antimony	24.3	25	97.2	80-120
Arsenic	97.5	100	97.5	80-120
Barium	106	100	106.0	80-120
Beryllium	2.5	2.5	100.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1300	1250	104.0	80-120
Chromium	10.5	10	105.0	80-120
Cobalt	25.7	25	102.8	80-120
Copper	12.7	12.5	101.6	80-120
Iron	1270	1300	97.7	80-120
Lead	23.4	25	93.6	80-120
Magnesium	1210	1250	96.8	80-120
Manganese	26.0	25	104.0	80-120
Molybdenum				
Nickel	25.7	25	102.8	80-120
Potassium	1240	1250	99.2	80-120
Selenium	96.5	100	96.5	80-120
Silver	2.3	2.5	92.0	80-120
Sodium	1270	1250	101.6	80-120
Strontium				
Thallium	96.7	100	96.7	80-120
Tin				
Titanium				
Vanadium	24.8	25	99.2	80-120
Zinc	25.1	25	100.4	80-120

Associated samples MP23523: F96005-1, F96005-2, F96005-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F96005-2 Original	SDL 5:25	%DIF	QC Limits
Aluminum	96300	88400	8.2	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	31.2	0.00	100.0(a)	0-10
Barium	933	866	7.3	0-10
Beryllium	3.60	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2830000	3270000	15.6*(b)	0-10
Chromium	93.3	120	28.6 (a)	0-10
Cobalt	28.9	0.00	100.0(a)	0-10
Copper	39.4	31.4	20.3 (a)	0-10
Iron	86300	81900	5.1	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	58200	56400	3.2	0-10
Manganese	1180	1120	4.6	0-10
Molybdenum				
Nickel	83.2	74.4	10.6 (a)	0-10
Potassium	22100	18500	16.1*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	221	201	8.9	0-10
Zinc	187	175	6.5	0-10

Associated samples MP23523: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F96005-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	96290	94364.2	87720	0.2	125	2500	-265.8*a	80-120
Antimony	9.8	10	0	0	131.6	0.2	5	100	131.6*(a	80-120
Arsenic	9.8	10	31.2	30.576	132.8	0.2	5	100	102.2	80-120
Barium	9.8	10	933.4	914.732	1106	0.2	12.5	250	76.5*(a)	80-120
Beryllium	9.8	10	3.6	3.528	54.8	0.2	2.5	50	102.5	80-120
Cadmium	9.8	10	0	0	65.9	0.2	2.5	50	131.8*(a	80-120
Calcium	9.8	10	2828000	2771440	2676000	0.2	250	5000	-1908.8*a	80-120
Chromium	9.8	10	93.3	91.434	157.9	0.2	2.5	50	132.9*(a	80-120
Cobalt	9.8	10	28.9	28.322	78	0.2	2.5	50	99.4	80-120
Copper	9.8	10	39.4	38.612	141.4	0.2	5	100	102.8	80-120
Iron	9.8	10	86250	84525	79170	0.2	150	3000	-178.5*a	80-120
Lead	9.8	10	0	0	61.4	0.2	2.5	50	122.8*(a	80-120
Magnesium	9.8	10	58240	57075.2	56460	0.2	250	5000	-12.3*(a	80-120
Manganese	9.8	10	1175	1151.5	1095	0.2	2.5	50	-113.0*a	80-120
Molybdenum										
Nickel	9.8	10	83.2	81.536	176.4	0.2	5	100	94.9	80-120
Potassium	9.8	10	22050	21609	30950	0.2	500	10000	93.4	80-120
Selenium	9.8	10	0	0	134	0.2	5	100	134.0*(a	80-120
Silver	9.8	10	0	0	48.2	0.2	2.5	50	96.4	80-120
Sodium	9.8	10	0	0	15080	0.2	500	10000	150.8*(a	80-120
Strontium										
Thallium	9.8	10	0	0	122.6	0.2	5	100	122.6*(a	80-120
Tin										
Titanium										
Vanadium	9.8	10	220.9	216.482	248.2	0.2	2.5	50	63.4*(a)	80-120
Zinc	9.8	10	187.2	183.456	544.9	0.2	12.5	250	144.6*(a	80-120

Associated samples MP23523: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23551: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96005-2 Original	DUP	RPD	QC Limits	F96005-2 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0064	0.024	115.8(a)	0-20	0.0064	0.36	0.307	115.2	80-120

Associated samples MP23551: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96005-2 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0064	0.34	0.293	113.9	5.7	20

Associated samples MP23551: F96005-1, F96005-2, F96005-3

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: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23551: F96005-1, F96005-2, F96005-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96005
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96005-2 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0628	0.00	100.0(a)	0-10

Associated samples MP23551: F96005-1, F96005-2, F96005-3

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

09/06/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020

Accutest Job Number: F96080

Sampling Date: 08/17/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **99**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96080

Holloman AFB; SS18
Project No: 11-0020

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96080-1	08/17/12	08:20	ZBBP	08/18/12	SO	Soil	SS18-DP41-7
F96080-2	08/17/12	11:00	ZBBP	08/18/12	SO	Soil	SS18-DP45-8
F96080-3	08/17/12	00:00	ZBBP	08/18/12	SO	Trip Blank Soil	TRIP BLANK
F96080-4	08/17/12	13:30	ZBBP	08/18/12	SO	Soil	SS18-DP46-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96080

Site: Holloman AFB; SS18 **Report Date** 9/6/2012 12:47:09 PM

3 Samples and 1 Trip Blank were collected on 08/17/2012 and were received at Accutest on 08/18/2012 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F96080. 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:** VH2880

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96080-1MS, F96080-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1-Chlorohexane, Benzyl Chloride, Bromobenzene, Chlorobenzene, Ethylbenzene, Hexachlorobutadiene, Isopropylbenzene, m,p-Xylene, m-Dichlorobenzene, n-Butylbenzene, o-Chlorotoluene, o-Dichlorobenzene, o-Xylene, p-Dichlorobenzene, p-Isopropyltoluene, sec-Butylbenzene, Styrene, tert-Butylbenzene, Tetrachloroethylene, Toluene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Dibromochloromethane, Methyl methacrylate are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-Dichloropropane, 1-Chlorohexane, 2,2-Dichloropropane, 2-Chloroethyl vinyl ether, 2-Hexanone, 4-Methyl-2-pentanone, Acrylonitrile, Allyl chloride, Benzene, Benzyl Chloride, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, cis-1,4-Dichloro-2-Butene, Dibromochloromethane, Dichlorodifluoromethane, Ethyl methacrylate, Ethylbenzene, Freon 113, Hexachlorobutadiene, Hexane, Isopropylbenzene, m,p-Xylene, m-Dichlorobenzene, Methacrylonitrile, Methyl ethyl ketone, Methyl iodide, Methyl methacrylate, Methyl Tert Butyl Ether, Methylene bromide, Methylene chloride, n-Butylbenzene, n-Propylbenzene, Naphthalene, o-Chlorotoluene, o-Dichlorobenzene, o-Xylene, p-Chlorotoluene, p-Dichlorobenzene, p-Isopropyltoluene, Pentachloroethane, Propionitrile, sec-Butylbenzene, Styrene, tert-Butylbenzene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trans-1,4-Dichloro-2-Butene, Trichloroethylene, Trichlorofluoromethane, Vinyl chloride are outside control limits for sample F96080-1MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP43294

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) F96005-2MS, F96005-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzoic Acid, Isophorone are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 3-Nitroaniline are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

F96080-2: Dilution required due to matrix interference.

Volatiles by GC By Method SW846 8015C

Matrix: SO **Batch ID:** GQR3076

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96310-2MS, F96310-2MSD were used as the QC samples indicated.

Sample(s) F96080-2 has surrogates outside control limits. Probable cause due to matrix interference.

F96080-2 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

F96080-2 for 4-Bromofluorobenzene: Result reported from PID.

Extractables by GC By Method SW846 8015C

Matrix: SO **Batch ID:** OP43297

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) F96258-1MS, F96258-1MSD were used as the QC samples indicated.

Sample(s) F96080-1, F96080-2, OP43297-MB have surrogates outside control limits.

F96080-1 for o-Terphenyl: Outside control limits. However, sample was ND.

F96080-2 for o-Terphenyl: Outside control limits due to dilution.

OP43297-MB for o-Terphenyl: Outside control limits. However, sample was ND.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP43235

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) F96003-3MS, F96003-3MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

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) F96005-2DUP, F96005-2MS, F96005-2MSD, F96005-2PS, F96005-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Magnesium, Sodium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Antimony, Cadmium, Lead, Sodium, Thallium, Zinc are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Recovery(s) for Aluminum, Calcium, Iron 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 Arsenic, Lead, Sodium are outside control limits for sample MP23523-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Beryllium, Chromium, Cobalt, Copper, Nickel are outside control limits for sample MP23523-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23523-SD1 for Calcium: Serial dilution indicates possible matrix interference.

MP23523-SD1 for Potassium: Serial dilution indicates possible matrix interference.

MP23523-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Antimony: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

MP23523-PS1 for Cadmium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Thallium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Vanadium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23523-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F96080-1 for Aluminum: Sample dilution required due to sample matrix.

F96080-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Arsenic: Sample dilution required due to sample matrix.

F96080-1 for Barium: Sample dilution required due to sample matrix.

F96080-1 for Beryllium: Sample dilution required due to sample matrix.

F96080-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Cobalt: Sample dilution required due to sample matrix.

F96080-1 for Copper: Sample dilution required due to sample matrix.

F96080-1 for Iron: Sample dilution required due to sample matrix.

F96080-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Magnesium: Sample dilution required due to sample matrix.

F96080-1 for Manganese: Sample dilution required due to sample matrix.

F96080-1 for Nickel: Sample dilution required due to sample matrix.

F96080-1 for Potassium: Sample dilution required due to sample matrix.

F96080-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Silver: Sample dilution required due to sample matrix.

F96080-1 for Sodium: Sample dilution required due to sample matrix.

F96080-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96080-1 for Vanadium: Sample dilution required due to sample matrix.

F96080-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

F96080-2 for Aluminum: Sample dilution required due to sample matrix.

F96080-2 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96080-2 for Arsenic: Sample dilution required due to sample matrix.

F96080-2 for Barium: Sample dilution required due to sample matrix.

F96080-2 for Beryllium: Sample dilution required due to sample matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP23523

F96080-2 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96080-2 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96080-2 for Cobalt: Sample dilution required due to sample matrix.
F96080-2 for Copper: Sample dilution required due to sample matrix.
F96080-2 for Iron: Sample dilution required due to sample matrix.
F96080-2 for Lead: Elevated reporting limit(s) due to matrix interference.
F96080-2 for Magnesium: Sample dilution required due to sample matrix.
F96080-2 for Manganese: Sample dilution required due to sample matrix.
F96080-2 for Nickel: Sample dilution required due to sample matrix.
F96080-2 for Potassium: Sample dilution required due to sample matrix.
F96080-2 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96080-2 for Silver: Sample dilution required due to sample matrix.
F96080-2 for Sodium: Sample dilution required due to sample matrix.
F96080-2 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96080-2 for Vanadium: Sample dilution required due to sample matrix.
F96080-2 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Aluminum: Sample dilution required due to sample matrix.
F96080-4 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Arsenic: Sample dilution required due to sample matrix.
F96080-4 for Barium: Sample dilution required due to sample matrix.
F96080-4 for Beryllium: Sample dilution required due to sample matrix.
F96080-4 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Cobalt: Sample dilution required due to sample matrix.
F96080-4 for Copper: Sample dilution required due to sample matrix.
F96080-4 for Iron: Sample dilution required due to sample matrix.
F96080-4 for Lead: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Magnesium: Sample dilution required due to sample matrix.
F96080-4 for Manganese: Sample dilution required due to sample matrix.
F96080-4 for Nickel: Sample dilution required due to sample matrix.
F96080-4 for Potassium: Sample dilution required due to sample matrix.
F96080-4 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Silver: Sample dilution required due to sample matrix.
F96080-4 for Sodium: Sample dilution required due to sample matrix.
F96080-4 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96080-4 for Vanadium: Sample dilution required due to sample matrix.
F96080-4 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP23551

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) F96005-2MS, F96005-2MSD, F96005-2SDL, F96005-2DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Mercury are outside control limits for sample MP23551-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23551-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN51478

Sample(s) F96080-1DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN51494

Sample(s) F96039-1DUP was used as the QC samples for Solids, Percent.

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: September 6, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96080
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/17/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96080-1	**SS18-DP41-7**					
Aluminum [a]		5440	44	5.3	mg/kg	SW846 6010C
Arsenic [a]		3.1	2.2	0.44	mg/kg	SW846 6010C
Barium [a]		68.6	44	2.2	mg/kg	SW846 6010C
Calcium		127000	2200	44	mg/kg	SW846 6010C
Chromium [b]		4.9	4.4	0.44	mg/kg	SW846 6010C
Cobalt [a]		1.7 J	11	0.22	mg/kg	SW846 6010C
Copper [a]		3.2 J	5.5	0.44	mg/kg	SW846 6010C
Iron [a]		4580	66	7.3	mg/kg	SW846 6010C
Lead [b]		1.2 J	8.8	0.44	mg/kg	SW846 6010C
Magnesium [a]		1780	1100	22	mg/kg	SW846 6010C
Manganese [a]		71.7	3.3	0.22	mg/kg	SW846 6010C
Nickel [a]		3.9 J	8.8	0.22	mg/kg	SW846 6010C
Potassium [a]		1400 J	2200	110	mg/kg	SW846 6010C
Vanadium [a]		12.0	11	0.22	mg/kg	SW846 6010C
Zinc [b]		12.6	8.8	2.2	mg/kg	SW846 6010C
F96080-2	**SS18-DP45-8**					
n-Butylbenzene		10.0	5.3	1.4	ug/kg	SW846 8260B
sec-Butylbenzene		107	5.3	1.7	ug/kg	SW846 8260B
Carbon disulfide		7.6	5.3	2.1	ug/kg	SW846 8260B
Isopropylbenzene		48.4	5.3	1.2	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		1440	380	190	mg/kg	SW846 8015C
TPH (C10-C22)		1590	570	230	mg/kg	SW846 8015C
TPH (> C22-C36)		356 J	570	230	mg/kg	SW846 8015C
Aluminum [a]		3710	46	5.5	mg/kg	SW846 6010C
Arsenic [a]		2.8	2.3	0.46	mg/kg	SW846 6010C
Barium [a]		42.1 J	46	2.3	mg/kg	SW846 6010C
Calcium		203000	2300	46	mg/kg	SW846 6010C
Chromium [b]		3.1 J	4.6	0.46	mg/kg	SW846 6010C
Cobalt [a]		1.2 J	11	0.23	mg/kg	SW846 6010C
Copper [a]		1.6 J	5.7	0.46	mg/kg	SW846 6010C
Iron [a]		3050	69	7.6	mg/kg	SW846 6010C
Lead [b]		0.83 J	9.2	0.46	mg/kg	SW846 6010C
Magnesium [a]		3240	1100	23	mg/kg	SW846 6010C
Manganese [a]		102	3.4	0.23	mg/kg	SW846 6010C
Nickel [a]		3.0 J	9.2	0.23	mg/kg	SW846 6010C
Potassium [a]		1050 J	2300	110	mg/kg	SW846 6010C
Sodium [a]		449 J	2300	250	mg/kg	SW846 6010C
Vanadium [a]		8.8 J	11	0.23	mg/kg	SW846 6010C
Zinc [b]		8.6 J	9.2	2.3	mg/kg	SW846 6010C

Summary of Hits

Job Number: F96080
Account: Nation View
Project: Holloman AFB; SS18
Collected: 08/17/12

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96080-3	**TRIP BLANK**					
Hexane		4.4 J	5.0	1.9	ug/kg	SW846 8260B
F96080-4	**SS18-DP46-8**					
Aluminum [a]		4660	59	7.0	mg/kg	SW846 6010C
Arsenic [a]		0.78 J	2.9	0.59	mg/kg	SW846 6010C
Barium [a]		45.6 J	59	2.9	mg/kg	SW846 6010C
Calcium		150000	2900	59	mg/kg	SW846 6010C
Chromium [b]		4.2 J	5.9	0.59	mg/kg	SW846 6010C
Cobalt [a]		1.2 J	15	0.29	mg/kg	SW846 6010C
Copper [a]		1.7 J	7.3	0.59	mg/kg	SW846 6010C
Iron [a]		3690	88	9.7	mg/kg	SW846 6010C
Magnesium [a]		3370	1500	29	mg/kg	SW846 6010C
Manganese [a]		40.5	4.4	0.29	mg/kg	SW846 6010C
Nickel [a]		2.8 J	12	0.29	mg/kg	SW846 6010C
Potassium [a]		1130 J	2900	150	mg/kg	SW846 6010C
Sodium [a]		1560 J	2900	320	mg/kg	SW846 6010C
Vanadium [a]		8.2 J	15	0.29	mg/kg	SW846 6010C
Zinc [b]		9.6 J	12	2.9	mg/kg	SW846 6010C

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077480.D	1	08/18/12	EP	n/a	n/a	VH2880
Run #2							

	Initial Weight
Run #1	6.76 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	19	ug/kg	
75-05-8	Acetonitrile	ND	47	17	ug/kg	
107-02-8	Acrolein	ND	24	10	ug/kg	
107-13-1	Acrylonitrile	ND	24	11	ug/kg	
107-05-1	Allyl chloride	ND	24	4.7	ug/kg	
71-43-2	Benzene	ND	4.7	1.4	ug/kg	
100-44-7	Benzyl Chloride	ND	4.7	1.4	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	1.0	ug/kg	
75-25-2	Bromoform	ND	4.7	1.4	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	1.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	1.5	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	0.95	ug/kg	
75-00-3	Chloroethane	ND	4.7	1.9	ug/kg	
67-66-3	Chloroform	ND	4.7	1.1	ug/kg	
544-10-5	1-Chlorohexane	ND	4.7	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	1.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	9.5	ug/kg	
75-15-0	Carbon disulfide	ND	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.7	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	0.95	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	0.95	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	0.95	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	1.3	ug/kg	

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.7	0.95	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	0.95	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	24	4.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	1.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	0.95	ug/kg	
97-63-2	Ethyl methacrylate	ND	24	4.7	ug/kg	
76-13-1	Freon 113	ND	4.7	1.6	ug/kg	
591-78-6	2-Hexanone	ND	24	5.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.7	1.9	ug/kg	
110-54-3	Hexane	ND	4.7	1.8	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	5.2	ug/kg	
126-98-7	Methacrylonitrile	ND	24	8.7	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.5	1.0	ug/kg	
80-62-6	Methyl methacrylate	ND	4.7	1.7	ug/kg	
74-95-3	Methylene bromide	ND	4.7	1.4	ug/kg	
75-09-2	Methylene chloride	ND	9.5	4.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	24	5.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	24	4.7	ug/kg	
107-12-0	Propionitrile	ND	47	15	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.3	ug/kg	
100-42-5	Styrene	ND	4.7	2.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.7	0.95	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.95	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	1.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.1	ug/kg	

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	1.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	0.95	ug/kg	
108-88-3	Toluene	ND	4.7	1.1	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	24	4.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	24	13	ug/kg	
	m,p-Xylene	ND	9.5	2.1	ug/kg	
95-47-6	o-Xylene	ND	4.7	0.95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		80-121%
2037-26-5	Toluene-D8	107%		71-130%
460-00-4	4-Bromofluorobenzene	112%		59-148%
17060-07-0	1,2-Dichloroethane-D4	120%		77-123%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U033347.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	380	ug/kg	
95-57-8	2-Chlorophenol	ND	210	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	27	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	430	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	430	85	ug/kg	
95-48-7	2-Methylphenol	ND	210	21	ug/kg	
	3&4-Methylphenol	ND	210	31	ug/kg	
88-75-5	2-Nitrophenol	ND	210	21	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	170	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	260	ug/kg	
108-95-2	Phenol	ND	210	21	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	21	ug/kg	
83-32-9	Acenaphthene	ND	210	21	ug/kg	
208-96-8	Acenaphthylene	ND	210	21	ug/kg	
120-12-7	Anthracene	ND	210	21	ug/kg	
92-87-5	Benzidine	ND	2100	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	21	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	210	43	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	43	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	43	ug/kg	
106-47-8	4-Chloroaniline	ND	210	21	ug/kg	
218-01-9	Chrysene	ND	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	21	ug/kg	

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	43	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	43	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	43	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	430	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	21	ug/kg	
132-64-9	Dibenzofuran	ND	210	21	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	430	85	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	210	43	ug/kg	
84-66-2	Diethyl phthalate	ND	430	85	ug/kg	
131-11-3	Dimethyl phthalate	ND	210	43	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	430	85	ug/kg	
206-44-0	Fluoranthene	ND	210	21	ug/kg	
86-73-7	Fluorene	ND	210	21	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	43	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	94	ug/kg	
67-72-1	Hexachloroethane	ND	210	43	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	21	ug/kg	
78-59-1	Isophorone	ND	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	21	ug/kg	
88-74-4	2-Nitroaniline	ND	210	43	ug/kg	
99-09-2	3-Nitroaniline	ND	210	43	ug/kg	
100-01-6	4-Nitroaniline	ND	210	43	ug/kg	
91-20-3	Naphthalene	ND	210	34	ug/kg	
98-95-3	Nitrobenzene	ND	210	21	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	21	ug/kg	
85-01-8	Phenanthrene	ND	210	21	ug/kg	
129-00-0	Pyrene	ND	210	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		40-102%
4165-62-2	Phenol-d5	58%		41-100%
118-79-6	2,4,6-Tribromophenol	62%		42-108%

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	46%		40-105%
321-60-8	2-Fluorobiphenyl	48%		43-107%
1718-51-0	Terphenyl-d14	72%		45-119%

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR071139.D	1	08/31/12	MM	n/a	n/a	GQR3076
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.98 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.8	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	107%		61-121%

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109632.D	1	08/23/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	21	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	21	11	ug/kg	
11141-16-5	Aroclor 1232	ND	21	11	ug/kg	
53469-21-9	Aroclor 1242	ND	21	8.5	ug/kg	
12672-29-6	Aroclor 1248	ND	21	8.5	ug/kg	
11097-69-1	Aroclor 1254	ND	21	8.5	ug/kg	
11096-82-5	Aroclor 1260	ND	21	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	97%		39-157%

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:	SS18-DP41-7		
Lab Sample ID:	F96080-1	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	78.0
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY31584.D	1	08/30/12	SJL	08/27/12	OP43297	GYY1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.2	mg/kg	
	TPH (> C22-C36)	ND	11	4.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%		49-108%

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: SS18-DP41-7
Lab Sample ID: F96080-1
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/17/12
Date Received: 08/18/12
Percent Solids: 78.0

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	5440	44	5.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	0.88 U	8.8	0.88	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	3.1	2.2	0.44	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	68.6	44	2.2	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.22 U	1.1	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.44 U	1.8	0.44	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	127000	2200	44	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	4.9	4.4	0.44	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.7 J	11	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	3.2 J	5.5	0.44	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	4580	66	7.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	1.2 J	8.8	0.44	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	1780	1100	22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	71.7	3.3	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.0099 U	0.099	0.0099	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	3.9 J	8.8	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1400 J	2200	110	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	1.8 U	8.8	1.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.22 U	2.2	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	240 U	2200	240	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.1 U	4.4	1.1	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	12.0	11	0.22	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	12.6	8.8	2.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10087
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23523
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077483.D	1	08/18/12	EP	n/a	n/a	VH2880
Run #2							

	Initial Weight
Run #1	6.56 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	21	ug/kg	
75-05-8	Acetonitrile	ND	53	19	ug/kg	
107-02-8	Acrolein	ND	27	12	ug/kg	
107-13-1	Acrylonitrile	ND	27	12	ug/kg	
107-05-1	Allyl chloride	ND	27	5.3	ug/kg	
71-43-2	Benzene	ND	5.3	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	5.3	1.6	ug/kg	
108-86-1	Bromobenzene	ND	5.3	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.2	ug/kg	
75-25-2	Bromoform	ND	5.3	1.6	ug/kg	
104-51-8	n-Butylbenzene	10.0	5.3	1.4	ug/kg	
135-98-8	sec-Butylbenzene	107	5.3	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	1.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
544-10-5	1-Chlorohexane	ND	5.3	1.5	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	1.3	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	1.3	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	27	11	ug/kg	
75-15-0	Carbon disulfide	7.6	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	1.5	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.3	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	1.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	1.5	ug/kg	

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:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	1.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	27	5.3	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.3	1.3	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.3	1.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.3	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.1	ug/kg	
97-63-2	Ethyl methacrylate	ND	27	5.3	ug/kg	
76-13-1	Freon 113	ND	5.3	1.8	ug/kg	
591-78-6	2-Hexanone	ND	27	5.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.3	2.1	ug/kg	
110-54-3	Hexane	ND	5.3	2.0	ug/kg	
98-82-8	Isopropylbenzene	48.4	5.3	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	1.3	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	5.8	ug/kg	
126-98-7	Methacrylonitrile	ND	27	9.8	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
74-88-4	Methyl iodide	ND	11	1.2	ug/kg	
80-62-6	Methyl methacrylate	ND	5.3	1.9	ug/kg	
74-95-3	Methylene bromide	ND	5.3	1.6	ug/kg	
75-09-2	Methylene chloride	ND	11	4.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	6.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
76-01-7	Pentachloroethane	ND	27	5.3	ug/kg	
107-12-0	Propionitrile	ND	53	17	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	1.5	ug/kg	
100-42-5	Styrene	ND	5.3	2.8	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.3	ug/kg	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	1.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	1.1	ug/kg	
108-88-3	Toluene	ND	5.3	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.1	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	27	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	1.6	ug/kg	
108-05-4	Vinyl Acetate	ND	27	15	ug/kg	
	m,p-Xylene	ND	11	2.3	ug/kg	
95-47-6	o-Xylene	ND	5.3	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		80-121%
2037-26-5	Toluene-D8	105%		71-130%
460-00-4	4-Bromofluorobenzene	81%		59-148%
17060-07-0	1,2-Dichloroethane-D4	122%		77-123%

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Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L059248.D	5	08/29/12	NAF	08/27/12	OP43294	SL3016
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	5700	2000	ug/kg	
95-57-8	2-Chlorophenol	ND	1100	110	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1100	110	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1100	110	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	140	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5700	2300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2300	460	ug/kg	
95-48-7	2-Methylphenol	ND	1100	110	ug/kg	
	3&4-Methylphenol	ND	1100	160	ug/kg	
88-75-5	2-Nitrophenol	ND	1100	110	ug/kg	
100-02-7	4-Nitrophenol	ND	5700	910	ug/kg	
87-86-5	Pentachlorophenol	ND	5700	1400	ug/kg	
108-95-2	Phenol	ND	1100	110	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1100	110	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1100	110	ug/kg	
83-32-9	Acenaphthene	ND	1100	110	ug/kg	
208-96-8	Acenaphthylene	ND	1100	110	ug/kg	
120-12-7	Anthracene	ND	1100	110	ug/kg	
92-87-5	Benzidine	ND	11000	2300	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1100	110	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1100	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1100	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1100	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1100	110	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1100	110	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1100	230	ug/kg	
100-51-6	Benzyl Alcohol	ND	1100	230	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1100	230	ug/kg	
106-47-8	4-Chloroaniline	ND	1100	110	ug/kg	
218-01-9	Chrysene	ND	1100	110	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1100	110	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1100	110	ug/kg	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	1100	110	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1100	110	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1100	230	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1100	230	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1100	230	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1100	110	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1100	130	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2300	230	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1100	110	ug/kg	
132-64-9	Dibenzofuran	ND	1100	110	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2300	460	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1100	230	ug/kg	
84-66-2	Diethyl phthalate	ND	2300	460	ug/kg	
131-11-3	Dimethyl phthalate	ND	1100	230	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2300	460	ug/kg	
206-44-0	Fluoranthene	ND	1100	110	ug/kg	
86-73-7	Fluorene	ND	1100	110	ug/kg	
118-74-1	Hexachlorobenzene	ND	1100	110	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1100	230	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1100	500	ug/kg	
67-72-1	Hexachloroethane	ND	1100	230	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1100	110	ug/kg	
78-59-1	Isophorone	ND	1100	110	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1100	110	ug/kg	
88-74-4	2-Nitroaniline	ND	1100	230	ug/kg	
99-09-2	3-Nitroaniline	ND	1100	230	ug/kg	
100-01-6	4-Nitroaniline	ND	1100	230	ug/kg	
91-20-3	Naphthalene	ND	1100	180	ug/kg	
98-95-3	Nitrobenzene	ND	1100	110	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1100	110	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1100	110	ug/kg	
85-01-8	Phenanthrene	ND	1100	110	ug/kg	
129-00-0	Pyrene	ND	1100	110	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1100	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		40-102%
4165-62-2	Phenol-d5	67%		41-100%
118-79-6	2,4,6-Tribromophenol	72%		42-108%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	107%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

(a) Dilution required due to matrix interference.

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:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR071140.D	10	08/31/12	MM	n/a	n/a	GQR3076
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.18 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1440	380	190	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94% [a]		56-136%
460-00-4	4-Bromofluorobenzene	175% [b]		56-136%
98-08-8	aaa-Trifluorotoluene	103%		61-121%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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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:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109646.D	1	08/23/12	MV	08/22/12	OP43235	GST2641
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	23	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	23	12	ug/kg	
11141-16-5	Aroclor 1232	ND	23	12	ug/kg	
53469-21-9	Aroclor 1242	ND	23	9.3	ug/kg	
12672-29-6	Aroclor 1248	ND	23	9.3	ug/kg	
11097-69-1	Aroclor 1254	ND	23	9.3	ug/kg	
11096-82-5	Aroclor 1260	ND	23	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	99%		39-157%

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Report of Analysis

Client Sample ID:	SS18-DP45-8		
Lab Sample ID:	F96080-2	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	71.8
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR448.D	50	08/30/12	SJL	08/27/12	OP43297	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1590	570	230	mg/kg	
	TPH (> C22-C36)	356	570	230	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		49-108%

(a) Outside control limits due to dilution.

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SS18-DP45-8
Lab Sample ID: F96080-2
Matrix: SO - Soil
Project: Holloman AFB; SS18

Date Sampled: 08/17/12
Date Received: 08/18/12
Percent Solids: 71.8

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	3710	46	5.5	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	0.92 U	9.2	0.92	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	2.8	2.3	0.46	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	42.1 J	46	2.3	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.23 U	1.1	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.46 U	1.8	0.46	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	203000	2300	46	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	3.1 J	4.6	0.46	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.2 J	11	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	1.6 J	5.7	0.46	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	3050	69	7.6	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.83 J	9.2	0.46	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3240	1100	23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	102	3.4	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	3.0 J	9.2	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1050 J	2300	110	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	1.8 U	9.2	1.8	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.23 U	2.3	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	449 J	2300	250	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.2 U	4.6	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	8.8 J	11	0.23	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	8.6 J	9.2	2.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10087
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23523
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96080-3	**Date Sampled:**	08/17/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077484.D	1	08/18/12	EP	n/a	n/a	VH2880
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/kg	
75-05-8	Acetonitrile	ND	50	18	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
107-05-1	Allyl chloride	ND	25	5.0	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.5	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	5.0	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96080-3	**Date Sampled:**	08/17/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
97-63-2	Ethyl methacrylate	ND	25	5.0	ug/kg	
76-13-1	Freon 113	ND	5.0	1.7	ug/kg	
591-78-6	2-Hexanone	ND	25	5.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/kg	
110-54-3	Hexane	4.4	5.0	1.9	ug/kg	J
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.5	ug/kg	
126-98-7	Methacrylonitrile	ND	25	9.2	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-88-4	Methyl iodide	ND	10	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	5.0	1.8	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.5	ug/kg	
75-09-2	Methylene chloride	ND	10	4.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
76-01-7	Pentachloroethane	ND	25	5.0	ug/kg	
107-12-0	Propionitrile	ND	50	16	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.4	ug/kg	
100-42-5	Styrene	ND	5.0	2.6	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	

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:	TRIP BLANK		
Lab Sample ID:	F96080-3	**Date Sampled:**	08/17/12
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	25	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	25	14	ug/kg	
	m,p-Xylene	ND	10	2.2	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-121%
2037-26-5	Toluene-D8	110%		71-130%
460-00-4	4-Bromofluorobenzene	103%		59-148%
17060-07-0	1,2-Dichloroethane-D4	104%		77-123%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H0077485.D	1	08/18/12	EP	n/a	n/a	VH2880
Run #2							

	Initial Weight
Run #1	6.85 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49	19	ug/kg	
75-05-8	Acetonitrile	ND	49	18	ug/kg	
107-02-8	Acrolein	ND	24	11	ug/kg	
107-13-1	Acrylonitrile	ND	24	11	ug/kg	
107-05-1	Allyl chloride	ND	24	4.9	ug/kg	
71-43-2	Benzene	ND	4.9	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	4.9	1.5	ug/kg	
108-86-1	Bromobenzene	ND	4.9	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	1.1	ug/kg	
75-25-2	Bromoform	ND	4.9	1.5	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	1.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	1.6	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	1.2	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.97	ug/kg	
75-00-3	Chloroethane	ND	4.9	1.9	ug/kg	
67-66-3	Chloroform	ND	4.9	1.2	ug/kg	
544-10-5	1-Chlorohexane	ND	4.9	1.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	24	9.7	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	1.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	0.97	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	0.97	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	1.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	0.97	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	1.4	ug/kg	

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
124-48-1	Dibromochloromethane	ND	4.9	0.97	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.97	ug/kg	
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	24	4.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	0.97	ug/kg	
97-63-2	Ethyl methacrylate	ND	24	4.9	ug/kg	
76-13-1	Freon 113	ND	4.9	1.7	ug/kg	
591-78-6	2-Hexanone	ND	24	5.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	4.9	1.9	ug/kg	
110-54-3	Hexane	ND	4.9	1.9	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	1.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	5.4	ug/kg	
126-98-7	Methacrylonitrile	ND	24	9.0	ug/kg	
74-83-9	Methyl bromide	ND	4.9	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	1.9	ug/kg	
74-88-4	Methyl iodide	ND	9.7	1.1	ug/kg	
80-62-6	Methyl methacrylate	ND	4.9	1.8	ug/kg	
74-95-3	Methylene bromide	ND	4.9	1.5	ug/kg	
75-09-2	Methylene chloride	ND	9.7	4.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	24	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	1.9	ug/kg	
76-01-7	Pentachloroethane	ND	24	4.9	ug/kg	
107-12-0	Propionitrile	ND	49	15	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	1.4	ug/kg	
100-42-5	Styrene	ND	4.9	2.5	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.9	0.97	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.97	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	1.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.2	ug/kg	

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8260B	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	1.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	0.97	ug/kg	
108-88-3	Toluene	ND	4.9	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	1.9	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	24	4.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	1.5	ug/kg	
108-05-4	Vinyl Acetate	ND	24	14	ug/kg	
	m,p-Xylene	ND	9.7	2.1	ug/kg	
95-47-6	o-Xylene	ND	4.9	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-121%
2037-26-5	Toluene-D8	111%		71-130%
460-00-4	4-Bromofluorobenzene	115%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U033349.D	1	08/28/12	NAF	08/27/12	OP43294	SU1583
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1100	390	ug/kg	
95-57-8	2-Chlorophenol	ND	220	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	22	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	28	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	450	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	450	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	22	ug/kg	
	3&4-Methylphenol	ND	220	32	ug/kg	
88-75-5	2-Nitrophenol	ND	220	22	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	180	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	270	ug/kg	
108-95-2	Phenol	ND	220	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	22	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	22	ug/kg	
83-32-9	Acenaphthene	ND	220	22	ug/kg	
208-96-8	Acenaphthylene	ND	220	22	ug/kg	
120-12-7	Anthracene	ND	220	22	ug/kg	
92-87-5	Benzidine	ND	2200	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	22	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	22	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	22	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	220	45	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	45	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	45	ug/kg	
106-47-8	4-Chloroaniline	ND	220	22	ug/kg	
218-01-9	Chrysene	ND	220	22	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	22	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	22	ug/kg	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	22	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	45	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	45	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	45	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	22	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	26	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	45	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	22	ug/kg	
132-64-9	Dibenzofuran	ND	220	22	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	89	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	220	45	ug/kg	
84-66-2	Diethyl phthalate	ND	450	89	ug/kg	
131-11-3	Dimethyl phthalate	ND	220	45	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	89	ug/kg	
206-44-0	Fluoranthene	ND	220	22	ug/kg	
86-73-7	Fluorene	ND	220	22	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	22	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	45	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	98	ug/kg	
67-72-1	Hexachloroethane	ND	220	45	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	22	ug/kg	
78-59-1	Isophorone	ND	220	22	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	22	ug/kg	
88-74-4	2-Nitroaniline	ND	220	45	ug/kg	
99-09-2	3-Nitroaniline	ND	220	45	ug/kg	
100-01-6	4-Nitroaniline	ND	220	45	ug/kg	
91-20-3	Naphthalene	ND	220	36	ug/kg	
98-95-3	Nitrobenzene	ND	220	22	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	22	ug/kg	
85-01-8	Phenanthrene	ND	220	22	ug/kg	
129-00-0	Pyrene	ND	220	22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		40-102%
4165-62-2	Phenol-d5	68%		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		40-105%
321-60-8	2-Fluorobiphenyl	58%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR071141.D	1	08/31/12	MM	n/a	n/a	GQR3076
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.39 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.9	3.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		56-136%
98-08-8	aaa-Trifluorotoluene	107%		61-121%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8082A SW846 3550C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST109634.D	1	08/23/12	MV	08/22/12	OP43235	GST2640
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	22	8.9	ug/kg	
11104-28-2	Aroclor 1221	ND	22	11	ug/kg	
11141-16-5	Aroclor 1232	ND	22	11	ug/kg	
53469-21-9	Aroclor 1242	ND	22	8.9	ug/kg	
12672-29-6	Aroclor 1248	ND	22	8.9	ug/kg	
11097-69-1	Aroclor 1254	ND	22	8.9	ug/kg	
11096-82-5	Aroclor 1260	ND	22	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		44-126%
2051-24-3	Decachlorobiphenyl	105%		39-157%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	74.9
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YR449.D	1	08/30/12	SJL	08/27/12	OP43297	GYR9
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	11	4.4	mg/kg	
	TPH (> C22-C36)	ND	11	4.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-108%

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:	SS18-DP46-8		
Lab Sample ID:	F96080-4	**Date Sampled:**	08/17/12
Matrix:	SO - Soil	**Date Received:**	08/18/12
		Percent Solids:	74.9
Project:	Holloman AFB; SS18		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum [a]	4660	59	7.0	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Antimony [b]	1.2 U	12	1.2	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Arsenic [a]	0.78 J	2.9	0.59	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Barium [a]	45.6 J	59	2.9	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Beryllium [a]	0.29 U	1.5	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Cadmium [b]	0.59 U	2.3	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Calcium	150000	2900	59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Chromium [b]	4.2 J	5.9	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Cobalt [a]	1.2 J	15	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Copper [a]	1.7 J	7.3	0.59	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Iron [a]	3690	88	9.7	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Lead [b]	0.59 U	12	0.59	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Magnesium [a]	3370	1500	29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Manganese [a]	40.5	4.4	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.010 U	0.10	0.010	mg/kg	1	08/27/12	08/27/12	JL	SW846 7471B [3]	SW846 7471B [5]
Nickel [a]	2.8 J	12	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Potassium [a]	1130 J	2900	150	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Selenium [b]	2.3 U	12	2.3	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Silver [a]	0.29 U	2.9	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Sodium [a]	1560 J	2900	320	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Thallium [b]	1.5 U	5.9	1.5	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]
Vanadium [a]	8.2 J	15	0.29	mg/kg	5	08/22/12	08/23/12	LM	SW846 6010C [1]	SW846 3050B [4]
Zinc [b]	9.6 J	12	2.9	mg/kg	10	08/22/12	08/24/12	LM	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA10081
(2) Instrument QC Batch: MA10087
(3) Instrument QC Batch: MA10090
(4) Prep QC Batch: MP23523
(5) Prep QC Batch: MP23551

(a) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96080

Page: 1 of 1

Project No: 11-0020

COC Number(1): 08172012 - 1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: HAFB

Project/Site Name: SS-18 Supplemental ACM

Client Name: USACE Omaha District

Collected by: Z. Beck, B. Parrish

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC (8260B)	SVOC (8270C)	PCB (8082)	TAL Metals (6010B/7471A)	TPH-GRO (8015C)	TPH DRO/ORO (8015C)	Moisture Content (2540B)		Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-DP41-7		17-08-2012	0820	5 - 7	N		SO	6	X	X	X	X	X	X	X					
2	SS18-DP45-8		17-08-2012	1100	6 - 8	N		SO	6	X	X	X	X	X	X	X					
3	Trip Blank				-	TB		SQ												2-059-001	
4	SS18-DP46-8		17-08-2012	1330		N		SO	6	X	X	X	X	X	X	X					
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Tomm	08/17/2012	1400	1. FX		09:30
2. FX			2. J. Crane (AISE)	8-18-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped No.: ____

Method of Shipment: Fed Ex Airbill Number: 798769742234

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.6

5.1

5

F96080: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96080 CLIENT: NATION VIEW PROJECT: SS-18

DATE/TIME RECEIVED: 8-18-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7987 6974 2234

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 ? 3+TB

NUMBER OF LAB FILTERED METALS ? ____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

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 JC 8-18-12 REVIEWER SIGNATURE/DATE R. Wille 08/18/12

NF 12/10 receipt confirmation 122910.xls

F96080: 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

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-MB	H0077477.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
75-05-8	Acetonitrile	ND	20	5.0	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
107-05-1	Allyl chloride	ND	2.0	0.30	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
544-10-5	1-Chlorohexane	ND	2.0	0.25	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-MB	H0077477.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1476-11-5	cis-1,4-Dichloro-2-Butene	ND	10	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
97-63-2	Ethyl methacrylate	ND	5.0	1.0	ug/l	
76-13-1	Freon 113	ND	1.0	0.47	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
110-54-3	Hexane	ND	2.0	0.59	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
126-98-7	Methacrylonitrile	ND	20	5.0	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	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
80-62-6	Methyl methacrylate	ND	5.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
76-01-7	Pentachloroethane	ND	10	2.0	ug/l	
107-12-0	Propionitrile	ND	20	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-MB	H0077477.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	108%	86-112%
460-00-4	4-Bromofluorobenzene	111%	84-120%

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-BS	H0077476.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	306	122	61-144
75-05-8	Acetonitrile	500	475	95	59-139
107-02-8	Acrolein	250	285	114	27-156
107-13-1	Acrylonitrile	250	250	100	55-144
107-05-1	Allyl chloride	50	49.8	100	41-152
71-43-2	Benzene	50	47.6	95	78-130
100-44-7	Benzyl Chloride	50	47.0	94	74-130
108-86-1	Bromobenzene	50	44.2	88	78-123
74-97-5	Bromochloromethane	50	42.2	84	72-122
75-27-4	Bromodichloromethane	50	48.4	97	73-122
75-25-2	Bromoform	50	47.2	94	70-139
104-51-8	n-Butylbenzene	50	51.7	103	80-138
135-98-8	sec-Butylbenzene	50	51.6	103	82-132
98-06-6	tert-Butylbenzene	50	50.9	102	79-130
108-90-7	Chlorobenzene	50	50.7	101	83-122
75-00-3	Chloroethane	50	46.6	93	61-153
67-66-3	Chloroform	50	45.5	91	79-129
544-10-5	1-Chlorohexane	50	49.8	100	85-137
95-49-8	o-Chlorotoluene	50	48.3	97	77-123
106-43-4	p-Chlorotoluene	50	51.0	102	78-129
110-75-8	2-Chloroethyl vinyl ether	250	244	98	52-142
75-15-0	Carbon disulfide	50	47.7	95	61-142
56-23-5	Carbon tetrachloride	50	51.4	103	79-135
75-34-3	1,1-Dichloroethane	50	47.5	95	77-132
75-35-4	1,1-Dichloroethylene	50	53.3	107	66-132
563-58-6	1,1-Dichloropropene	50	53.0	106	81-133
96-12-8	1,2-Dibromo-3-chloropropane	50	44.7	89	67-129
106-93-4	1,2-Dibromoethane	50	47.7	95	77-126
107-06-2	1,2-Dichloroethane	50	47.1	94	78-129
78-87-5	1,2-Dichloropropane	50	45.9	92	74-127
142-28-9	1,3-Dichloropropane	50	46.5	93	78-118
594-20-7	2,2-Dichloropropane	50	50.6	101	80-137
124-48-1	Dibromochloromethane	50	47.8	96	78-117
75-71-8	Dichlorodifluoromethane	50	59.7	119	35-162
156-59-2	cis-1,2-Dichloroethylene	50	47.5	95	74-123
10061-01-5	cis-1,3-Dichloropropene	50	45.9	92	79-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-BS	H0077476.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1476-11-5	cis-1,4-Dichloro-2-Butene	50	51.1	102	71-126
541-73-1	m-Dichlorobenzene	50	49.9	100	82-126
95-50-1	o-Dichlorobenzene	50	47.2	94	83-123
106-46-7	p-Dichlorobenzene	50	46.1	92	84-124
156-60-5	trans-1,2-Dichloroethylene	50	47.6	95	77-129
10061-02-6	trans-1,3-Dichloropropene	50	47.1	94	87-131
100-41-4	Ethylbenzene	50	48.5	97	82-124
97-63-2	Ethyl methacrylate	50	50.6	101	78-118
76-13-1	Freon 113	50	51.2	102	62-147
591-78-6	2-Hexanone	250	266	106	67-130
87-68-3	Hexachlorobutadiene	50	49.6	99	77-150
110-54-3	Hexane	50	52.6	105	65-147
98-82-8	Isopropylbenzene	50	54.2	108	82-133
99-87-6	p-Isopropyltoluene	50	50.6	101	82-132
108-10-1	4-Methyl-2-pentanone	250	247	99	69-125
126-98-7	Methacrylonitrile	500	501	100	70-138
74-83-9	Methyl bromide	50	41.5	83	60-146
74-87-3	Methyl chloride	50	48.0	96	58-163
74-88-4	Methyl iodide	50	44.7	89	66-128
80-62-6	Methyl methacrylate	50	55.3	111	73-125
74-95-3	Methylene bromide	50	46.7	93	75-128
75-09-2	Methylene chloride	50	47.9	96	62-140
78-93-3	Methyl ethyl ketone	250	268	107	66-134
1634-04-4	Methyl Tert Butyl Ether	50	43.2	86	70-131
91-20-3	Naphthalene	50	45.2	90	59-143
76-01-7	Pentachloroethane	50	59.3	119	64-156
107-12-0	Propionitrile	500	486	97	73-133
103-65-1	n-Propylbenzene	50	52.0	104	78-129
100-42-5	Styrene	50	48.7	97	79-123
630-20-6	1,1,1,2-Tetrachloroethane	50	47.7	95	81-121
71-55-6	1,1,1-Trichloroethane	50	48.3	97	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	45.5	91	70-128
79-00-5	1,1,2-Trichloroethane	50	46.4	93	76-118
87-61-6	1,2,3-Trichlorobenzene	50	43.1	86	78-136
96-18-4	1,2,3-Trichloropropane	50	48.5	97	74-125
120-82-1	1,2,4-Trichlorobenzene	50	47.7	95	82-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH2880-BS	H0077476.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-63-6	1,2,4-Trimethylbenzene	50	45.7	91	77-129
108-67-8	1,3,5-Trimethylbenzene	50	45.8	92	79-129
127-18-4	Tetrachloroethylene	50	48.6	97	79-132
108-88-3	Toluene	50	48.2	96	80-123
79-01-6	Trichloroethylene	50	49.4	99	78-132
75-69-4	Trichlorofluoromethane	50	53.4	107	67-149
110-57-6	Trans-1,4-Dichloro-2-Butene	50	47.5	95	74-138
75-01-4	Vinyl chloride	50	49.9	100	60-145
108-05-4	Vinyl Acetate	250	248	99	25-164
	m,p-Xylene	100	104	104	82-128
95-47-6	o-Xylene	50	51.6	103	82-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	80-121%
2037-26-5	Toluene-D8	109%	71-130%
460-00-4	4-Bromofluorobenzene	106%	59-148%
17060-07-0	1,2-Dichloroethane-D4	111%	77-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96080-1MS	H0077481.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1MSD	H0077482.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1	H0077480.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	F96080-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		334	296	89	396	117	29	61-144/29
75-05-8	Acetonitrile	ND		668	502	75	620	92	21	59-139/30
107-02-8	Acrolein	ND		334	298	89	407	121	31	27-156/39
107-13-1	Acrylonitrile	ND		334	228	68	319	95	33*	55-144/24
107-05-1	Allyl chloride	ND		66.8	53.7	80	77.2	114	36*	41-152/24
71-43-2	Benzene	ND		66.8	52.6	79	73.0	108	32*	78-130/25
100-44-7	Benzyl Chloride	ND		66.8	41.9	63*	63.6	94	41*	74-130/28
108-86-1	Bromobenzene	ND		66.8	51.2	77*	74.1	110	37*	78-123/30
74-97-5	Bromochloromethane	ND		66.8	50.1	75	66.2	98	28*	72-122/23
75-27-4	Bromodichloromethane	ND		66.8	58.1	87	78.3	116	30*	73-122/25
75-25-2	Bromoform	ND		66.8	52.0	78	75.8	112	37*	70-139/26
104-51-8	n-Butylbenzene	ND		66.8	44.7	67*	77.4	115	54*	80-138/31
135-98-8	sec-Butylbenzene	ND		66.8	48.3	72*	77.9	115	47*	82-132/29
98-06-6	tert-Butylbenzene	ND		66.8	51.9	78*	79.0	117	41*	79-130/29
108-90-7	Chlorobenzene	ND		66.8	53.9	81*	79.4	118	38*	83-122/23
75-00-3	Chloroethane	ND		66.8	50.4	75	67.2	100	29	61-153/31
67-66-3	Chloroform	ND		66.8	54.2	81	75.7	112	33*	79-129/27
544-10-5	1-Chlorohexane	ND		66.8	44.1	66*	68.8	102	44*	85-137/29
95-49-8	o-Chlorotoluene	ND		66.8	50.8	76*	78.1	116	42*	77-123/31
106-43-4	p-Chlorotoluene	ND		66.8	52.9	79	83.2	123	45*	78-129/29
110-75-8	2-Chloroethyl vinyl ether	ND		334	259	78	370	110	35*	52-142/25
75-15-0	Carbon disulfide	ND		66.8	47.5	71	66.3	98	33*	61-142/27
56-23-5	Carbon tetrachloride	ND		66.8	53.4	80	74.6	111	33*	79-135/29
75-34-3	1,1-Dichloroethane	ND		66.8	52.4	78	72.8	108	33*	77-132/26
75-35-4	1,1-Dichloroethylene	ND		66.8	54.0	81	74.5	110	32*	66-132/27
563-58-6	1,1-Dichloropropene	ND		66.8	53.4	80*	73.5	109	32*	81-133/26
96-12-8	1,2-Dibromo-3-chloropropane	ND		66.8	52.5	79	75.5	112	36*	67-129/29
106-93-4	1,2-Dibromoethane	ND		66.8	54.9	82	76.0	113	32*	77-126/24
107-06-2	1,2-Dichloroethane	ND		66.8	57.3	86	78.3	116	31*	78-129/24
78-87-5	1,2-Dichloropropane	ND		66.8	55.2	83	75.6	112	31*	74-127/27
142-28-9	1,3-Dichloropropane	ND		66.8	52.6	79	77.4	115	38*	78-118/26
594-20-7	2,2-Dichloropropane	ND		66.8	53.8	81	72.4	107	29*	80-137/28
124-48-1	Dibromochloromethane	ND		66.8	55.4	83	79.9	118*	36*	78-117/27
75-71-8	Dichlorodifluoromethane	ND		66.8	55.4	83	76.8	114	32*	35-162/30
156-59-2	cis-1,2-Dichloroethylene	ND		66.8	53.2	80	72.9	108	31*	74-123/26
10061-01-5	cis-1,3-Dichloropropene	ND		66.8	52.7	79	73.9	110	33*	79-130/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96080-1MS	H0077481.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1MSD	H0077482.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1	H0077480.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	F96080-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1476-11-5	cis-1,4-Dichloro-2-Butene	ND		66.8	58.4	87	81.1	120	33*	71-126/28
541-73-1	m-Dichlorobenzene	ND		66.8	51.5	77*	79.0	117	42*	82-126/29
95-50-1	o-Dichlorobenzene	ND		66.8	51.5	77*	78.6	116	42*	83-123/28
106-46-7	p-Dichlorobenzene	ND		66.8	48.7	73*	75.7	112	43*	84-124/28
156-60-5	trans-1,2-Dichloroethylene	ND		66.8	51.3	77	73.9	110	36*	77-129/27
10061-02-6	trans-1,3-Dichloropropene	ND		66.8	52.9	79*	74.8	111	34*	87-131/27
100-41-4	Ethylbenzene	ND		66.8	49.3	74*	74.3	110	40*	82-124/25
97-63-2	Ethyl methacrylate	ND		66.8	54.5	82	76.8	114	34*	78-118/30
76-13-1	Freon 113	ND		66.8	48.6	73	68.4	101	34*	62-147/29
591-78-6	2-Hexanone	ND		334	264	79	382	113	37*	67-130/29
87-68-3	Hexachlorobutadiene	ND		66.8	39.6	59*	71.1	105	57*	77-150/36
110-54-3	Hexane	ND		66.8	44.7	67	61.3	91	31*	65-147/27
98-82-8	Isopropylbenzene	ND		66.8	52.1	78*	80.0	119	42*	82-133/27
99-87-6	p-Isopropyltoluene	ND		66.8	46.6	70*	77.7	115	50*	82-132/29
108-10-1	4-Methyl-2-pentanone	ND		334	262	78	380	113	37*	69-125/24
126-98-7	Methacrylonitrile	ND		668	554	83	736	109	28*	70-138/22
74-83-9	Methyl bromide	ND		66.8	47.8	72	65.5	97	31	60-146/31
74-87-3	Methyl chloride	ND		66.8	54.7	82	70.8	105	26	58-163/26
74-88-4	Methyl iodide	ND		66.8	49.2	74	67.6	100	32*	66-128/27
80-62-6	Methyl methacrylate	ND		66.8	54.6	82	87.0	129*	46*	73-125/24
74-95-3	Methylene bromide	ND		66.8	53.4	80	71.2	106	29*	75-128/26
75-09-2	Methylene chloride	ND		66.8	52.8	79	74.0	110	33*	62-140/25
78-93-3	Methyl ethyl ketone	ND		334	265	79	367	109	32*	66-134/23
1634-04-4	Methyl Tert Butyl Ether	ND		66.8	52.0	78	70.6	105	30*	70-131/25
91-20-3	Naphthalene	ND		66.8	47.6	71	74.4	110	44*	59-143/31
76-01-7	Pentachloroethane	ND		66.8	57.4	86	84.9	126	39*	64-156/37
107-12-0	Propionitrile	ND		668	513	77	698	103	31*	73-133/23
103-65-1	n-Propylbenzene	ND		66.8	51.8	78	79.3	118	42*	78-129/29
100-42-5	Styrene	ND		66.8	50.4	75*	77.2	114	42*	79-123/28
630-20-6	1,1,1,2-Tetrachloroethane	ND		66.8	53.9	81	77.5	115	36*	81-121/25
71-55-6	1,1,1-Trichloroethane	ND		66.8	52.4	78*	71.8	106	31*	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		66.8	53.6	80	74.8	111	33*	70-128/30
79-00-5	1,1,2-Trichloroethane	ND		66.8	54.3	81	76.3	113	34*	76-118/28
87-61-6	1,2,3-Trichlorobenzene	ND		66.8	45.6	68*	72.1	107	45*	78-136/34
96-18-4	1,2,3-Trichloropropane	ND		66.8	52.1	78	78.8	117	41*	74-125/30
120-82-1	1,2,4-Trichlorobenzene	ND		66.8	47.2	71*	75.1	111	46*	82-137/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96080-1MS	H0077481.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1MSD	H0077482.D	1	08/18/12	EP	n/a	n/a	VH2880
F96080-1	H0077480.D	1	08/18/12	EP	n/a	n/a	VH2880

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96080-1, F96080-2, F96080-3, F96080-4

CAS No.	Compound	F96080-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-63-6	1,2,4-Trimethylbenzene	ND		66.8	48.7	73*	76.1	113	44*	77-129/29
108-67-8	1,3,5-Trimethylbenzene	ND		66.8	47.2	71*	75.2	111	46*	79-129/31
127-18-4	Tetrachloroethylene	ND		66.8	52.0	78*	76.1	113	38*	79-132/27
108-88-3	Toluene	ND		66.8	52.0	78*	74.4	110	35*	80-123/26
79-01-6	Trichloroethylene	ND		66.8	52.4	78	72.6	108	32*	78-132/28
75-69-4	Trichlorofluoromethane	ND		66.8	55.2	83	75.5	112	31*	67-149/29
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		66.8	52.1	78	74.5	110	35*	74-138/30
75-01-4	Vinyl chloride	ND		66.8	52.4	78	72.6	108	32*	60-145/29
108-05-4	Vinyl Acetate	ND		334	189	57	241	71	24	25-164/35
	m,p-Xylene	ND		134	104	78*	157	116	41*	82-128/25
95-47-6	o-Xylene	ND		66.8	53.8	81*	80.3	119	40*	82-126/25

CAS No.	Surrogate Recoveries	MS	MSD	F96080-1	Limits
1868-53-7	Dibromofluoromethane	108%	110%	112%	80-121%
2037-26-5	Toluene-D8	108%	110%	107%	71-130%
460-00-4	4-Bromofluorobenzene	111%	108%	112%	59-148%
17060-07-0	1,2-Dichloroethane-D4	110%	114%	120%	77-123%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	40-102%
4165-62-2	Phenol-d5	62%	41-100%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	U033329.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	68%	42-108%
4165-60-0	Nitrobenzene-d5	54%	40-105%
321-60-8	2-Fluorobiphenyl	53%	43-107%
1718-51-0	Terphenyl-d14	77%	45-119%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	40-102%
4165-62-2	Phenol-d5	60%	41-100%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059229.D	1	08/28/12	NAF	08/27/12	OP43294	SL3015

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	70%	42-108%
4165-60-0	Nitrobenzene-d5	58%	40-105%
321-60-8	2-Fluorobiphenyl	60%	43-107%
1718-51-0	Terphenyl-d14	75%	45-119%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	830	290	ug/kg	
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	24	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	40-102%
4165-62-2	Phenol-d5	57%	41-100%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MB	L059246.D	1	08/29/12	NAF	08/27/12	OP43294	SL3016

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	71%	42-108%
4165-60-0	Nitrobenzene-d5	58%	40-105%
321-60-8	2-Fluorobiphenyl	62%	43-107%
1718-51-0	Terphenyl-d14	76%	45-119%

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic Acid	3330	2240	67	44-116
95-57-8	2-Chlorophenol	1670	1190	71	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1310	79	59-102
120-83-2	2,4-Dichlorophenol	1670	1230	74	60-101
105-67-9	2,4-Dimethylphenol	1670	1080	65	49-89
51-28-5	2,4-Dinitrophenol	3330	2480	74	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	2700	81	58-109
95-48-7	2-Methylphenol	1670	1140	68	53-94
	3&4-Methylphenol	3330	2360	71	54-95
88-75-5	2-Nitrophenol	1670	1170	70	55-96
100-02-7	4-Nitrophenol	3330	2800	84	56-106
87-86-5	Pentachlorophenol	3330	2580	77	50-115
108-95-2	Phenol	1670	1180	71	55-99
95-95-4	2,4,5-Trichlorophenol	1670	1200	72	60-101
88-06-2	2,4,6-Trichlorophenol	1670	1150	69	60-100
83-32-9	Acenaphthene	1670	1230	74	59-97
208-96-8	Acenaphthylene	1670	1240	74	58-98
120-12-7	Anthracene	1670	1360	82	61-104
56-55-3	Benzo(a)anthracene	1670	1410	85	60-106
50-32-8	Benzo(a)pyrene	1670	1330	80	59-102
205-99-2	Benzo(b)fluoranthene	1670	1430	86	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1540	92	56-103
207-08-9	Benzo(k)fluoranthene	1670	1390	83	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1240	74	60-104
85-68-7	Butyl benzyl phthalate	1670	1670	100	57-110
100-51-6	Benzyl Alcohol	1670	1200	72	51-102
91-58-7	2-Chloronaphthalene	1670	1160	70	57-95
106-47-8	4-Chloroaniline	1670	1200	72	19-85
218-01-9	Chrysene	1670	1350	81	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1220	73	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1140	68	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1310	79	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1170	70	60-101
95-50-1	1,2-Dichlorobenzene	1670	1080	65	47-91
541-73-1	1,3-Dichlorobenzene	1670	1070	64	45-86
106-46-7	1,4-Dichlorobenzene	1670	1060	64	45-88

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1320	79	59-103
606-20-2	2,6-Dinitrotoluene	1670	1280	77	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1240	74	34-88
53-70-3	Dibenzo(a,h)anthracene	1670	1520	91	57-105
132-64-9	Dibenzofuran	1670	1230	74	58-103
84-74-2	Di-n-butyl phthalate	1670	1520	91	59-105
117-84-0	Di-n-octyl phthalate	1670	1610	97	59-117
84-66-2	Diethyl phthalate	1670	1440	86	59-106
131-11-3	Dimethyl phthalate	1670	1330	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1620	97	57-111
206-44-0	Fluoranthene	1670	1370	82	60-110
86-73-7	Fluorene	1670	1300	78	60-99
118-74-1	Hexachlorobenzene	1670	1240	74	58-103
87-68-3	Hexachlorobutadiene	1670	966	58	49-95
77-47-4	Hexachlorocyclopentadiene	1670	954	57	36-94
67-72-1	Hexachloroethane	1670	1140	68	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1590	95	57-104
78-59-1	Isophorone	1670	1010	61	58-97
91-57-6	2-Methylnaphthalene	1670	1180	71	57-103
88-74-4	2-Nitroaniline	1670	1450	87	53-106
99-09-2	3-Nitroaniline	1670	1300	78	29-85
100-01-6	4-Nitroaniline	1670	1550	93	49-104
91-20-3	Naphthalene	1670	1110	67	54-93
98-95-3	Nitrobenzene	1670	1100	66	53-92
621-64-7	N-Nitroso-di-n-propylamine	1670	1110	67	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1300	78	53-107
85-01-8	Phenanthrene	1670	1390	83	61-103
129-00-0	Pyrene	1670	1430	86	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1060	64	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	66%	40-102%
4165-62-2	Phenol-d5	69%	41-100%
118-79-6	2,4,6-Tribromophenol	77%	42-108%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-BS	U033328.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	62%	40-105%
321-60-8	2-Fluorobiphenyl	63%	43-107%
1718-51-0	Terphenyl-d14	82%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		4220	1660	39*	1850	44	11	44-116/36
95-57-8	2-Chlorophenol	ND		2110	1430	68	1660	79	15	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND		2110	1490	71	1730	83	15	59-102/27
120-83-2	2,4-Dichlorophenol	ND		2110	1460	69	1670	80	13	60-101/30
105-67-9	2,4-Dimethylphenol	ND		2110	1310	62	1480	71	12	49-89/31
51-28-5	2,4-Dinitrophenol	ND		4220	2290	54	2600	62	13	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND		4220	2950	70	3340	80	12	58-109/37
95-48-7	2-Methylphenol	ND		2110	1350	64	1590	76	16	53-94/29
	3&4-Methylphenol	ND		4220	2750	65	3200	76	15	54-95/31
88-75-5	2-Nitrophenol	ND		2110	1430	68	1660	79	15	55-96/30
100-02-7	4-Nitrophenol	ND		4220	3050	72	3590	86	16	56-106/29
87-86-5	Pentachlorophenol	ND		4220	2830	67	3140	75	10	50-115/33
108-95-2	Phenol	ND		2110	1420	67	1640	78	14	55-99/28
95-95-4	2,4,5-Trichlorophenol	ND		2110	1400	66	1620	77	15	60-101/28
88-06-2	2,4,6-Trichlorophenol	ND		2110	1370	65	1590	76	15	60-100/27
83-32-9	Acenaphthene	ND		2110	1460	69	1660	79	13	59-97/29
208-96-8	Acenaphthylene	ND		2110	1470	70	1690	81	14	58-98/30
120-12-7	Anthracene	ND		2110	1600	76	1780	85	11	61-104/29
56-55-3	Benzo(a)anthracene	ND		2110	1620	77	1830	87	12	60-106/31
50-32-8	Benzo(a)pyrene	ND		2110	1510	72	1700	81	12	59-102/32
205-99-2	Benzo(b)fluoranthene	ND		2110	1620	77	1800	86	11	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND		2110	1750	83	1940	93	10	56-103/32
207-08-9	Benzo(k)fluoranthene	ND		2110	1570	74	1800	86	14	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND		2110	1480	70	1650	79	11	60-104/26
85-68-7	Butyl benzyl phthalate	ND		2110	1920	91	2130	102	10	57-110/28
100-51-6	Benzyl Alcohol	ND		2110	1460	69	1700	81	15	51-102/34
91-58-7	2-Chloronaphthalene	ND		2110	1420	67	1600	76	12	57-95/28
106-47-8	4-Chloroaniline	ND		2110	1510	72	1710	82	12	19-85/34
218-01-9	Chrysene	ND		2110	1550	74	1760	84	13	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2110	1480	70	1700	81	14	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND		2110	1390	66	1630	78	16	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2110	1660	79	1890	90	13	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		2110	1380	65	1570	75	13	60-101/26
95-50-1	1,2-Dichlorobenzene	ND		2110	1340	64	1550	74	15	47-91/35
541-73-1	1,3-Dichlorobenzene	ND		2110	1330	63	1530	73	14	45-86/36
106-46-7	1,4-Dichlorobenzene	ND		2110	1330	63	1520	73	13	45-88/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Compound	F96005-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		2110	1430	68	1700	81	17	59-103/30
606-20-2	2,6-Dinitrotoluene	ND		2110	1460	69	1660	79	13	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND		2110	1560	74	1750	84	11	34-88/31
53-70-3	Dibenzo(a,h)anthracene	ND		2110	1700	81	1940	93	13	57-105/29
132-64-9	Dibenzofuran	ND		2110	1490	71	1720	82	14	58-103/27
84-74-2	Di-n-butyl phthalate	ND		2110	1710	81	1940	93	13	59-105/27
117-84-0	Di-n-octyl phthalate	ND		2110	1840	87	2050	98	11	59-117/28
84-66-2	Diethyl phthalate	ND		2110	1610	76	1860	89	14	59-106/27
131-11-3	Dimethyl phthalate	ND		2110	1520	72	1750	84	14	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2110	1890	90	2150	103	13	57-111/29
206-44-0	Fluoranthene	ND		2110	1520	72	1740	83	13	60-110/32
86-73-7	Fluorene	ND		2110	1490	71	1730	83	15	60-99/30
118-74-1	Hexachlorobenzene	ND		2110	1470	70	1630	78	10	58-103/27
87-68-3	Hexachlorobutadiene	ND		2110	1190	56	1350	64	13	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND		2110	1150	55	1330	64	15	36-94/41
67-72-1	Hexachloroethane	ND		2110	1410	67	1640	78	15	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2110	1770	84	2000	96	12	57-104/33
78-59-1	Isophorone	ND		2110	1200	57*	1390	66	15	58-97/30
91-57-6	2-Methylnaphthalene	ND		2110	1430	68	1670	80	15	57-103/32
88-74-4	2-Nitroaniline	ND		2110	1710	81	1980	95	15	53-106/29
99-09-2	3-Nitroaniline	ND		2110	1540	73	1810	86*	16	29-85/31
100-01-6	4-Nitroaniline	ND		2110	1750	83	2040	97	15	49-104/31
91-20-3	Naphthalene	ND		2110	1350	64	1540	74	13	54-93/32
98-95-3	Nitrobenzene	ND		2110	1320	63	1520	73	14	53-92/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2110	1350	64	1570	75	15	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND		2110	1520	72	1690	81	11	53-107/28
85-01-8	Phenanthrene	ND		2110	1630	77	1820	87	11	61-103/32
129-00-0	Pyrene	ND		2110	1700	81	1840	88	8	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND		2110	1320	63	1490	71	12	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
367-12-4	2-Fluorophenol	66%	76%	66%	40-102%
4165-62-2	Phenol-d5	68%	79%	73%	41-100%
118-79-6	2,4,6-Tribromophenol	72%	82%	81%	42-108%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43294-MS	U033331.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
OP43294-MSD	U033332.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583
F96005-2	U033330.D	1	08/27/12	NAF	08/27/12	OP43294	SU1583

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96080-1, F96080-2, F96080-4

CAS No.	Surrogate Recoveries	MS	MSD	F96005-2	Limits
4165-60-0	Nitrobenzene-d5	63%	71%	63%	40-105%
321-60-8	2-Fluorobiphenyl	62%	71%	64%	43-107%
1718-51-0	Terphenyl-d14	79%	87%	91%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3076-MB	QR071138.D	1	08/31/12	MM	n/a	n/a	GQR3076

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	56-136%
98-08-8	aaa-Trifluorotoluene	106%	61-121%

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR3076-BS	QR071137.D	1	08/31/12	MM	n/a	n/a	GQR3076

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.3	92	74-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	56-136%
98-08-8	aaa-Trifluorotoluene	107%	61-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96310-2MS	QR071150.D	1	08/31/12	MM	n/a	n/a	GQR3076
F96310-2MSD	QR071151.D	1	08/31/12	MM	n/a	n/a	GQR3076
F96310-2	QR071149.D	1	08/31/12	MM	n/a	n/a	GQR3076

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	F96310-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		26.6	22.7	85	22.9	86	1	74-121/17

CAS No.	Surrogate Recoveries	MS	MSD	F96310-2	Limits
460-00-4	4-Bromofluorobenzene	104%	107%	105%	56-136%
98-08-8	aaa-Trifluorotoluene	105%	105%	106%	61-121%

8.3.1

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* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109619.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	102%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MB	ST109645.D	1	08/23/12	MV	08/22/12	OP43235	GST2641

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	6.7	ug/kg	
11104-28-2	Aroclor 1221	ND	17	8.3	ug/kg	
11141-16-5	Aroclor 1232	ND	17	8.3	ug/kg	
53469-21-9	Aroclor 1242	ND	17	6.7	ug/kg	
12672-29-6	Aroclor 1248	ND	17	6.7	ug/kg	
11097-69-1	Aroclor 1254	ND	17	6.7	ug/kg	
11096-82-5	Aroclor 1260	ND	17	6.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	105%	44-126%
2051-24-3	Decachlorobiphenyl	109%	39-157%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43297-MB	YY31561.D	1	08/29/12	SJL	08/27/12	OP43297	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	101%	49-108%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43297-MB	YR446.D	1	08/30/12	SJL	08/27/12	OP43297	GYR9

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	97%	49-108%

Method Blank Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43297-MB	YR503.D	1	09/01/12	SJL	08/27/12	OP43297	GYR11

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	8.3	3.3	mg/kg	
	TPH (> C22-C36)	ND	8.3	3.3	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	114%* [a]	49-108%

(a) Outside control limits. However, sample was ND.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-BS	ST109618.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	132	99	69-117
11096-82-5	Aroclor 1260	133	137	103	71-121

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	99%	44-126%
2051-24-3	Decachlorobiphenyl	106%	39-157%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43297-BS	YY31560.D	1	08/29/12	SJL	08/27/12	OP43297	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	28.4	85	64-102
	TPH (> C22-C36)	33.3	26.7	80	52-131

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	94%	49-108%

9.2.2

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43235-MS	ST109622.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
OP43235-MSD	ST109623.D	1	08/22/12	MV	08/22/12	OP43235	GST2640
F96003-3	ST109621.D	1	08/22/12	MV	08/22/12	OP43235	GST2640

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96080-1, F96080-2, F96080-4

CAS No.	Compound	F96003-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		191	171	90	183	95	7	69-117/26
11096-82-5	Aroclor 1260	ND		191	171	90	186	96	8	71-121/30

CAS No.	Surrogate Recoveries	MS	MSD	F96003-3	Limits
877-09-8	Tetrachloro-m-xylene	97%	98%	83%	44-126%
2051-24-3	Decachlorobiphenyl	99%	103%	87%	39-157%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96080
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43297-MS	YY31563.D	1	08/29/12	SJL	08/27/12	OP43297	GYY1165
OP43297-MSD	YY31564.D	1	08/29/12	SJL	08/27/12	OP43297	GYY1165
F96258-1	YY31562.D	1	08/29/12	SJL	08/27/12	OP43297	GYY1165

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96080-1, F96080-2, F96080-4

CAS No.	Compound	F96258-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	8.6	U	34.4	33.3	97	32.1	94	4	64-102/32
	TPH (> C22-C36)	8.6	U	34.4	30.9	90	30.5	90	1	52-131/30

CAS No.	Surrogate Recoveries	MS	MSD	F96258-1	Limits
84-15-1	o-Terphenyl	102%	103%	97%	49-108%

9.3.2

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1.2	1.2	0.24	<10
Antimony	1.0	.05	.1	-0.010	<1.0
Arsenic	0.50	.05	.1	-0.075	<0.50
Barium	10	.2	.5	-0.010	<10
Beryllium	0.25	.005	.05	-0.010	<0.25
Cadmium	0.20	.005	.05	-0.0050	<0.20
Calcium	250	2.5	5	25.1	<250
Chromium	0.50	.05	.05	0.010	<0.50
Cobalt	2.5	.05	.05	-0.0050	<2.5
Copper	1.3	.05	.1	-0.090	<1.3
Iron	15	1.2	1.7	1.3	<15
Lead	1.0	.05	.05	0.0	<1.0
Magnesium	250	2.5	5	0.23	<250
Manganese	0.75	.05	.05	0.020	<0.75
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05	0.020	<2.0
Potassium	500	2.5	25	0.23	<500
Selenium	1.0	.1	.2	-0.035	<1.0
Silver	0.50	.05	.05	-0.010	<0.50
Sodium	500	43	55	0.44	<500
Strontium	0.50	.05	.05		
Thallium	0.50	.075	.13	-0.080	<0.50
Tin	2.5	.05	.05		
Titanium	0.50	.05	.1		
Vanadium	2.5	.05	.05	0.0	<2.5
Zinc	1.0	.05	.25	0.13	<1.0

Associated samples MP23523: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			08/22/12					08/22/12	
Metal	F96005-2 Original	DUP	RPD	QC Limits	F96005-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	5820	5150 (a)	12.2	0-20	5820	6790 (a)	1350	71.9 (d)	80-120
Antimony	0.0	0.0 (b)	NC	0-20	0.0	10.2 (b)	25	40.8N(e)	80-120
Arsenic	1.9	1.5 (a)	23.5 (c)	0-20	1.9	110 (a)	99.9	108.2	80-120
Barium	56.4	52.1 (a)	7.9	0-20	56.4	169 (a)	99.9	112.7	80-120
Beryllium	0.22	0.22 (a)	0.0	0-20	0.22	2.7 (a)	2.5	99.3	80-120
Cadmium	0.0	0.0 (b)	NC	0-20	0.0	2.3 (b)	2.5	92.1	80-120
Calcium	171000	162000	5.4	0-20	171000	175000	1250	320.2(d)	80-120
Chromium	5.6	5.2 (b)	7.4	0-20	5.6	16.3 (b)	9.99	107.1	80-120
Cobalt	1.7	1.5 (a)	12.5	0-20	1.7	27.2 (a)	25	102.1	80-120
Copper	2.4	2.2 (a)	8.7	0-20	2.4	15.5 (a)	12.5	104.9	80-120
Iron	5210	4660 (a)	11.1	0-20	5210	5930 (a)	1300	55.4 (d)	80-120
Lead	0.0	1.2 (b)	200.0(c)	0-20	0.0	25.7 (b)	25	102.9	80-120
Magnesium	3520	3030 (a)	15.0	0-20	3520	4210 (a)	1250	55.2N(e)	80-120
Manganese	71.0	61.2 (a)	14.8	0-20	71.0	95.3 (a)	25	97.3	80-120
Molybdenum									
Nickel	5.0	4.4 (a)	12.8	0-20	5.0	29.8 (a)	25	99.3	80-120
Potassium	1330	1200 (a)	10.3	0-20	1330	2650 (a)	1250	105.7	80-120
Selenium	0.0	0.0 (b)	NC	0-20	0.0	106 (b)	99.9	106.1	80-120
Silver	0.0	0.0 (a)	NC	0-20	0.0	2.4 (a)	2.5	96.1	80-120
Sodium	0.00	220 (a)	200.0(c)	0-20	0.00	1720 (a)	1250	137.7N(e	80-120
Strontium									
Thallium	0.0	0.0 (b)	NC	0-20	0.0	87.5 (b)	99.9	87.6	80-120
Tin									
Titanium									
Vanadium	13.3	12.2 (a)	8.6	0-20	13.3	37.0 (a)	25	94.9	80-120
Zinc	11.3	10.2 (b)	10.2	0-20	11.3	37.3 (b)	25	104.1	80-120

Associated samples MP23523: F96080-1, F96080-2, F96080-4

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) RPD acceptable due to low duplicate and sample concentrations.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(e) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	F96005-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	5820	7730 (a)	1620	118.2	12.9	20
Antimony	0.0	9.7 (b)	29.9	32.4N(c)	5.0	20
Arsenic	1.9	119 (a)	120	97.8	7.9	20
Barium	56.4	162 (a)	120	88.2	4.2	20
Beryllium	0.22	3.0 (a)	2.99	92.9	10.5	20
Cadmium	0.0	2.2 (b)	2.99	73.5N(c)	4.4	20
Calcium	171000	162000	1500	-601.4(d	7.7	20
Chromium	5.6	15.6 (b)	12	83.5	4.4	20
Cobalt	1.7	30.0 (a)	29.9	94.6	9.8	20
Copper	2.4	17.0 (a)	15	97.6	9.2	20
Iron	5210	6760 (a)	1560	99.6	13.1	20
Lead	0.0	22.7 (b)	29.9	75.8N(c)	12.4	20
Magnesium	3520	5110 (a)	1500	106.2	19.3	20
Manganese	71.0	102 (a)	29.9	103.6	6.8	20
Molybdenum						
Nickel	5.0	33.1 (a)	29.9	93.9	10.5	20
Potassium	1330	3050 (a)	1500	114.9	14.0	20
Selenium	0.0	97.2 (b)	120	81.2	8.7	20
Silver	0.0	2.5 (a)	2.99	83.5	4.1	20
Sodium	0.00	2000 (a)	1500	133.6N(c	15.1	20
Strontium						
Thallium	0.0	81.2 (b)	120	67.8N(c)	7.5	20
Tin						
Titanium						
Vanadium	13.3	41.2 (a)	29.9	93.2	10.7	20
Zinc	11.3	34.6 (b)	29.9	77.8N(c)	7.5	20

Associated samples MP23523: F96080-1, F96080-2, F96080-4

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) Sample dilution required due to sample matrix.
(b) Elevated reporting limit(s) due to matrix interference.
(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(d) 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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1380	1350	102.2	80-120
Antimony	24.3	25	97.2	80-120
Arsenic	97.5	100	97.5	80-120
Barium	106	100	106.0	80-120
Beryllium	2.5	2.5	100.0	80-120
Cadmium	2.5	2.5	100.0	80-120
Calcium	1300	1250	104.0	80-120
Chromium	10.5	10	105.0	80-120
Cobalt	25.7	25	102.8	80-120
Copper	12.7	12.5	101.6	80-120
Iron	1270	1300	97.7	80-120
Lead	23.4	25	93.6	80-120
Magnesium	1210	1250	96.8	80-120
Manganese	26.0	25	104.0	80-120
Molybdenum				
Nickel	25.7	25	102.8	80-120
Potassium	1240	1250	99.2	80-120
Selenium	96.5	100	96.5	80-120
Silver	2.3	2.5	92.0	80-120
Sodium	1270	1250	101.6	80-120
Strontium				
Thallium	96.7	100	96.7	80-120
Tin				
Titanium				
Vanadium	24.8	25	99.2	80-120
Zinc	25.1	25	100.4	80-120

Associated samples MP23523: F96080-1, F96080-2, F96080-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	F96005-2 Original	SDL 5:25	%DIF	QC Limits
Aluminum	96300	88400	8.2	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	31.2	0.00	100.0(a)	0-10
Barium	933	866	7.3	0-10
Beryllium	3.60	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	2830000	3270000	15.6*(b)	0-10
Chromium	93.3	120	28.6 (a)	0-10
Cobalt	28.9	0.00	100.0(a)	0-10
Copper	39.4	31.4	20.3 (a)	0-10
Iron	86300	81900	5.1	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	58200	56400	3.2	0-10
Manganese	1180	1120	4.6	0-10
Molybdenum				
Nickel	83.2	74.4	10.6 (a)	0-10
Potassium	22100	18500	16.1*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	221	201	8.9	0-10
Zinc	187	175	6.5	0-10

Associated samples MP23523: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23523
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/22/12

Metal	Sample ml	Final ml	F96005-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	96290	94364.2	87720	0.2	125	2500	-265.8*a	80-120
Antimony	9.8	10	0	0	131.6	0.2	5	100	131.6*(a	80-120
Arsenic	9.8	10	31.2	30.576	132.8	0.2	5	100	102.2	80-120
Barium	9.8	10	933.4	914.732	1106	0.2	12.5	250	76.5*(a)	80-120
Beryllium	9.8	10	3.6	3.528	54.8	0.2	2.5	50	102.5	80-120
Cadmium	9.8	10	0	0	65.9	0.2	2.5	50	131.8*(a	80-120
Calcium	9.8	10	2828000	2771440	2676000	0.2	250	5000	-1908.8*a	80-120
Chromium	9.8	10	93.3	91.434	157.9	0.2	2.5	50	132.9*(a	80-120
Cobalt	9.8	10	28.9	28.322	78	0.2	2.5	50	99.4	80-120
Copper	9.8	10	39.4	38.612	141.4	0.2	5	100	102.8	80-120
Iron	9.8	10	86250	84525	79170	0.2	150	3000	-178.5*a	80-120
Lead	9.8	10	0	0	61.4	0.2	2.5	50	122.8*(a	80-120
Magnesium	9.8	10	58240	57075.2	56460	0.2	250	5000	-12.3*(a	80-120
Manganese	9.8	10	1175	1151.5	1095	0.2	2.5	50	-113.0*a	80-120
Molybdenum										
Nickel	9.8	10	83.2	81.536	176.4	0.2	5	100	94.9	80-120
Potassium	9.8	10	22050	21609	30950	0.2	500	10000	93.4	80-120
Selenium	9.8	10	0	0	134	0.2	5	100	134.0*(a	80-120
Silver	9.8	10	0	0	48.2	0.2	2.5	50	96.4	80-120
Sodium	9.8	10	0	0	15080	0.2	500	10000	150.8*(a	80-120
Strontium										
Thallium	9.8	10	0	0	122.6	0.2	5	100	122.6*(a	80-120
Tin										
Titanium										
Vanadium	9.8	10	220.9	216.482	248.2	0.2	2.5	50	63.4*(a)	80-120
Zinc	9.8	10	187.2	183.456	544.9	0.2	12.5	250	144.6*(a	80-120

Associated samples MP23523: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0033	.0083	0.0028	<0.083

Associated samples MP23551: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12 08/27/12

Metal	F96005-2 Original	DUP	RPD	QC Limits	F96005-2 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0064	0.024	115.8(a)	0-20	0.0064	0.36	0.307	115.2	80-120

Associated samples MP23551: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	F96005-2 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0064	0.34	0.293	113.9	5.7	20

Associated samples MP23551: F96080-1, F96080-2, F96080-4

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: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/27/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	80-120

Associated samples MP23551: F96080-1, F96080-2, F96080-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96080
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23551
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/27/12

Metal	F96005-2 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.0628	0.00	100.0(a)	0-10

Associated samples MP23551: F96080-1, F96080-2, F96080-4

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

09/25/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F96736

Sampling Date: 09/10/12

Report to:

NationView
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Lakewood, CO 80228
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Total number of pages in report: **129**

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

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96736

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96736-1	09/10/12	09:50	BPL	09/11/12	AQ	Ground Water	SS18-MW23
F96736-1F	09/10/12	09:50	BPL	09/11/12	AQ	Groundwater Filtered	SS18-MW23
F96736-2	09/10/12	00:00	BPL	09/11/12	AQ	Trip Blank Water	TRIP BLANK
F96736-3	09/10/12	10:00	BPL	09/11/12	AQ	Ground Water	SS18-MW24
F96736-3F	09/10/12	10:00	BPL	09/11/12	AQ	Groundwater Filtered	SS18-MW24
F96736-4	09/10/12	00:00	BPL	09/11/12	AQ	Trip Blank Water	TRIP BLANK
F96736-5	09/10/12	11:40	BPL	09/11/12	AQ	Ground Water	SS18-MW25
F96736-5F	09/10/12	11:40	BPL	09/11/12	AQ	Groundwater Filtered	SS18-MW25
F96736-6	09/10/12	00:00	BPL	09/11/12	AQ	Trip Blank Water	TRIP BLANK
F96736-7	09/10/12	12:00	BPL	09/11/12	AQ	Ground Water	SS18-MW14
F96736-7F	09/10/12	12:00	BPL	09/11/12	AQ	Groundwater Filtered	SS18-MW14
F96736-8	09/10/12	00:00	BPL	09/11/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96736

Site: Holloman AFB; SS18 **Report Date** 9/25/2012 10:48:00

4 Samples and 4 Trip Blanks were collected on 09/10/2012 and were received at Accutest on 09/11/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F96736. 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:** VP409

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96733-18MS, F96733-18MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for 1,2,3-Trichloropropane, 2-Chloroethyl vinyl ether, Acetone, Carbon tetrachloride are outside control limits for sample F96733-18MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43496

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) F96699-7MS, F96699-7MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 4-Nitrophenol, Benzoic Acid are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GCD4788

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96736-3MS, F96736-3MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** GCD4793

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96736-1MS, F96736-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP43518

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) F96768-9MS, F96768-9MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for TPH (>C22-C36) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43503

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) F96736-1MS, F96736-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23656

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) F96736-1DUP, F96736-1MS, F96736-1MSD, F96736-1PS, F96736-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Arsenic, Potassium, Selenium, Silver are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for Potassium, Selenium are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD 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 Lead, Selenium, Thallium are outside control limits for sample MP23656-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Antimony, Arsenic, Chromium, Copper, Iron, Nickel, Selenium, Thallium, Zinc are outside control limits for sample MP23656-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23656-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23656-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23656-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23656-PS1 for Sodium: 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:** MP23651

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) F96701-1DUP, F96701-1MS, F96701-1MSD, F96701-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP23651-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN51735

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96736-3DUP was used as the QC samples for Solids, Total Dissolved.

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:

_____

Lovelie Metzgar, QA Assistant (signature on file)

Date: September 25, 2012

Summary of Hits

Job Number: F96736
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96736-1	**SS18-MW23**					
Chloroform		0.71 J	1.0	0.22	ug/l	SW846 8260B
Tetrachloroethylene		0.54 J	1.0	0.25	ug/l	SW846 8260B
TPH (C10-C22)		0.145 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.115 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		96.6 J	200	25	ug/l	SW846 6010C
Antimony		4.5 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		4.9 J	10	2.0	ug/l	SW846 6010C
Barium		49.5 J	200	5.0	ug/l	SW846 6010C
Calcium		585000	1000	100	ug/l	SW846 6010C
Chromium		14.1	10	1.0	ug/l	SW846 6010C
Copper		2.8 J	25	2.0	ug/l	SW846 6010C
Iron		41.2 J	300	35	ug/l	SW846 6010C
Magnesium		292000	5000	100	ug/l	SW846 6010C
Manganese		80.2	15	1.0	ug/l	SW846 6010C
Potassium		34600	10000	500	ug/l	SW846 6010C
Selenium		6.3 J	10	2.0	ug/l	SW846 6010C
Sodium		1020000	200000	38000	ug/l	SW846 6010C
Vanadium		74.7	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		6580	400	40	mg/l	SM19 2540C
F96736-1F	**SS18-MW23**					
Aluminum		46.0 J	200	25	ug/l	SW846 6010C
Antimony		4.1 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		4.6 J	10	2.0	ug/l	SW846 6010C
Barium		52.2 J	200	5.0	ug/l	SW846 6010C
Calcium		614000	1000	100	ug/l	SW846 6010C
Chromium		15.1	10	1.0	ug/l	SW846 6010C
Copper		2.9 J	25	2.0	ug/l	SW846 6010C
Magnesium		311000	5000	100	ug/l	SW846 6010C
Manganese		81.6	15	1.0	ug/l	SW846 6010C
Potassium		37200	10000	500	ug/l	SW846 6010C
Selenium		10.9	10	2.0	ug/l	SW846 6010C
Sodium		1100000	200000	38000	ug/l	SW846 6010C
Vanadium		78.8	50	1.0	ug/l	SW846 6010C
F96736-2	**TRIP BLANK**					
No hits reported in this sample.						
F96736-3	**SS18-MW24**					
1-Methylnaphthalene		0.60 J	4.8	0.48	ug/l	SW846 8270D

Summary of Hits

Job Number: F96736
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
TPH (C10-C22)	0.325	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)	0.210 J	0.24	0.095	mg/l	SW846 8015C
Aluminum	164 J	200	25	ug/l	SW846 6010C
Antimony	4.3 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	5.2 J	10	2.0	ug/l	SW846 6010C
Barium	55.9 J	200	5.0	ug/l	SW846 6010C
Calcium	543000	10000	1000	ug/l	SW846 6010C
Iron	76.3 J	300	35	ug/l	SW846 6010C
Magnesium	55300	5000	100	ug/l	SW846 6010C
Manganese	28.4	15	1.0	ug/l	SW846 6010C
Potassium	7010 J	10000	500	ug/l	SW846 6010C
Vanadium	32.1 J	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved	2720	200	20	mg/l	SM19 2540C
F96736-3F SS18-MW24					
Aluminum	47.6 J	200	25	ug/l	SW846 6010C
Arsenic	3.6 J	10	2.0	ug/l	SW846 6010C
Barium	48.9 J	200	5.0	ug/l	SW846 6010C
Calcium	536000	10000	1000	ug/l	SW846 6010C
Magnesium	49600	5000	100	ug/l	SW846 6010C
Manganese	21.4	15	1.0	ug/l	SW846 6010C
Potassium	6230 J	10000	500	ug/l	SW846 6010C
Vanadium	27.9 J	50	1.0	ug/l	SW846 6010C
F96736-4 TRIP BLANK					
No hits reported in this sample.					
F96736-5 SS18-MW25					
TPH (C10-C22)	1.08	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)	0.104 J	0.24	0.095	mg/l	SW846 8015C
Aluminum	458	200	25	ug/l	SW846 6010C
Antimony	4.0 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	16.4	10	2.0	ug/l	SW846 6010C
Barium	53.0 J	200	5.0	ug/l	SW846 6010C
Calcium	577000	10000	1000	ug/l	SW846 6010C
Cobalt	94.2	50	1.0	ug/l	SW846 6010C
Copper	6.0 J	25	2.0	ug/l	SW846 6010C
Iron	318	300	35	ug/l	SW846 6010C
Lead	2.2 J	5.0	1.0	ug/l	SW846 6010C
Magnesium	224000	5000	100	ug/l	SW846 6010C
Manganese	1350	15	1.0	ug/l	SW846 6010C
Nickel	148	40	2.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96736
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Potassium		17100	10000	500	ug/l	SW846 6010C
Vanadium		105	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		3780	200	20	mg/l	SM19 2540C
F96736-5F	**SS18-MW25**					
Aluminum		151 J	200	25	ug/l	SW846 6010C
Antimony		3.3 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		18.7	10	2.0	ug/l	SW846 6010C
Barium		47.8 J	200	5.0	ug/l	SW846 6010C
Calcium		538000	10000	1000	ug/l	SW846 6010C
Cobalt		90.0	50	1.0	ug/l	SW846 6010C
Copper		4.7 J	25	2.0	ug/l	SW846 6010C
Iron		82.7 J	300	35	ug/l	SW846 6010C
Magnesium		220000	5000	100	ug/l	SW846 6010C
Manganese		1260	15	1.0	ug/l	SW846 6010C
Nickel		142	40	2.0	ug/l	SW846 6010C
Potassium		16300	10000	500	ug/l	SW846 6010C
Vanadium		116	50	1.0	ug/l	SW846 6010C
F96736-6	**TRIP BLANK**					
No hits reported in this sample.						
F96736-7	**SS18-MW14**					
Chloroform		4.6	1.0	0.22	ug/l	SW846 8260B
Aluminum		221	200	25	ug/l	SW846 6010C
Antimony		2.4 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		7.2 J	10	2.0	ug/l	SW846 6010C
Barium		23.9 J	200	5.0	ug/l	SW846 6010C
Calcium		626000	10000	1000	ug/l	SW846 6010C
Chromium		1.1 J	10	1.0	ug/l	SW846 6010C
Iron		139 J	300	35	ug/l	SW846 6010C
Magnesium		145000	5000	100	ug/l	SW846 6010C
Manganese		5.3 J	15	1.0	ug/l	SW846 6010C
Potassium		7200 J	10000	500	ug/l	SW846 6010C
Selenium		4.2 J	10	2.0	ug/l	SW846 6010C
Sodium		123000	100000	19000	ug/l	SW846 6010C
Vanadium		64.5	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		3480	200	20	mg/l	SM19 2540C
F96736-7F	**SS18-MW14**					
Aluminum		55.7 J	200	25	ug/l	SW846 6010C

Summary of Hits

Job Number: F96736
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Antimony		4.2 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		6.1 J	10	2.0	ug/l	SW846 6010C
Barium		22.5 J	200	5.0	ug/l	SW846 6010C
Calcium		571000	10000	1000	ug/l	SW846 6010C
Iron		40.5 J	300	35	ug/l	SW846 6010C
Magnesium		151000	5000	100	ug/l	SW846 6010C
Manganese		5.5 J	15	1.0	ug/l	SW846 6010C
Potassium		7490 J	10000	500	ug/l	SW846 6010C
Sodium		112000	100000	19000	ug/l	SW846 6010C
Vanadium		65.4	50	1.0	ug/l	SW846 6010C

F96736-8 **TRIP BLANK**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10131.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.71	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.54	1.0	0.25	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025454.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
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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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117532.D	1	09/18/12	CP	n/a	n/a	GCD4793
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	100%		58-120%

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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110074.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		38-127%
2051-24-3	Decachlorobiphenyl	81%		25-137%

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:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32260.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.145	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.115	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	111%		42-114%

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: SS18-MW23
Lab Sample ID: F96736-1
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/11/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	96.6 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	4.5 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	4.9 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	49.5 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	585000	1000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Chromium	14.1	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.8 J	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	41.2 J	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	292000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	80.2	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	34600	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	6.3 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	1020000	200000	38000	ug/l	20	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	74.7	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW23		
Lab Sample ID:	F96736-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6580	400	40	mg/l	4	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW23		
Lab Sample ID:	F96736-1F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46.0 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	4.1 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	4.6 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	52.2 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	614000	1000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Chromium	15.1	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.9 J	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	311000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	81.6	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	37200	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	10.9	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	1100000	200000	38000	ug/l	20	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	78.8	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96736-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10127.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96736-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96736-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10132.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025455.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	0.60	4.8	0.48	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117410.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		57-129%
98-08-8	aaa-Trifluorotoluene	100%		58-120%

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110077.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		38-127%
2051-24-3	Decachlorobiphenyl	101%		25-137%

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:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32261.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.325	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.210	0.24	0.095	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	111%		42-114%

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: SS18-MW24
Lab Sample ID: F96736-3
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/11/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	164 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	4.3 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	5.2 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	55.9 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	543000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	76.3 J	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	55300	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	28.4	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	7010 J	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	79700	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	32.1 J	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW24		
Lab Sample ID:	F96736-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	2720	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW24		
Lab Sample ID:	F96736-3F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	47.6 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	3.6 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	48.9 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	536000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	49600	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	21.4	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	6230 J	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	80100	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	27.9 J	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96736-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10128.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96736-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96736-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10145.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025456.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117424.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	105%		58-120%

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110078.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	100%		25-137%

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:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32262.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.08	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.104	0.24	0.095	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		42-114%

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: SS18-MW25
Lab Sample ID: F96736-5
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/11/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	458	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	4.0 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	16.4	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	53.0 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	577000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	94.2	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	6.0 J	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	318	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	2.2 J	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	224000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	1350	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	148	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	17100	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	99200	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	105	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW25		
Lab Sample ID:	F96736-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3780	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW25		
Lab Sample ID:	F96736-5F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	151 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	3.3 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	18.7	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	47.8 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	538000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	90.0	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	4.7 J	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	82.7 J	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	220000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	1260	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	142	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	16300	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	99000	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	116	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96736-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10129.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96736-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96736-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10146.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	4.6	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004070.D	1	09/14/12	FS	09/12/12	OP43496	ST210
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117409.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		57-129%
98-08-8	aaa-Trifluorotoluene	100%		58-120%

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110079.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		38-127%
2051-24-3	Decachlorobiphenyl	85%		25-137%

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:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32263.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	ND	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	111%		42-114%

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: SS18-MW14
Lab Sample ID: F96736-7
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/11/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	221	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.4 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	7.2 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	23.9 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	626000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.1 J	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	139 J	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	145000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	5.3 J	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	7200 J	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	4.2 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	123000	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	64.5	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW14		
Lab Sample ID:	F96736-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3480	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW14		
Lab Sample ID:	F96736-7F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/11/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	55.7 J	200	25	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	4.2 J	6.0	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	6.1 J	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	22.5 J	200	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	571000	10000	1000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	40.5 J	300	35	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	151000	5000	100	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	5.5 J	15	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/12/12	09/12/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	7490 J	10000	500	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	112000	100000	19000	ug/l	10	09/12/12	09/14/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	65.4	50	1.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/12/12	09/13/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10131
(2) Instrument QC Batch: MA10135
(3) Instrument QC Batch: MA10141
(4) Prep QC Batch: MP23651
(5) Prep QC Batch: MP23656

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96736-8	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10130.D	1	09/13/12	EG	n/a	n/a	VP409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96736-8	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96736-8	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96736

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09102012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW23	SS18-MW23	9/10/2012	0950	-	N	1	WG	15	X	X	X	X	X	X	X	X				1
2	Trip Blank				-	TB	1	WQ	2	X											1
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/10/12	1400	FX		10:50
2.	FX			J. Conne (ASE)	9-11-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7989 2433 6271

Analytical Lab: Accutest Labs Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0 2.3 2.4 3.0

F96736: Chain of Custody

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F96736

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09102012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS18-MW24	SS18-MW24	9/10/2012	1000	-	N	1	WG	15	X	X	X	X	X	X	X	X				2
4	Trip Blank				-	TB	1	WQ	2	X											2
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/10/12	1400	TX		10:00
2.	TX			J. Crowe (AESE)	9-11-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798924335724

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

F96736: Chain of Custody

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NV Project No: 11-0020.01.030

COC Number(1): 09102012-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
5	SS18-MW25	SS18-MW25	9/10/2012	1140	-	N	1	WG	15	X	X	X	X	X	X	X	X				3
6	Trip Blank				-	TB	1	WQ	2	X											3
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/10/12	1400	[signature]		10:00
2.	[signature]			J. Cooper (ALSE)	9-11-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989 2433 5827

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0 2.8 2.1 3.0

5.1

5

F96736: Chain of Custody

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09102012-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW14	SS18-MW14	9/10/12	1200	-	N	1	WG	15	X	X	X	X	X	X	X	X				4
8	Trip Blank				-	TB	1	WQ	2	X											4
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[illegible]	9/10/12	1400	FX		10:00
2.	FX			[illegible] (A/SR)	9-11-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 7989 2433 6282

Analytical Lab: Accutest Labs

Delivery Location: Orlando, FL

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.0 2.8 2.4 3.0

5.1

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F96736: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96736 CLIENT: NATION VIEW PROJECT: SS-18

DATE/TIME RECEIVED: 9-11-12 10:50 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7989 2433 6271

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 4
- [ ] 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 2.4 2.0 2.6
- [ ] CORRECTED TEMPS: 3.0 2.8 2.4 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:

TECHNICIAN SIGNATURE/DATE JC 9-11-12 REVIEWER SIGNATURE/DATE R Willm 09-11-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F96736: Chain of Custody

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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

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-MB	P10124.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-MB	P10124.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-MB	P10124.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	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	103%	84-120%

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-BS	P10122.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	159	127	59-134
107-02-8	Acrolein	125	122	98	33-157
107-13-1	Acrylonitrile	125	121	97	62-124
71-43-2	Benzene	25	28.1	112	83-124
108-86-1	Bromobenzene	25	25.5	102	83-115
74-97-5	Bromochloromethane	25	22.5	90	78-112
75-27-4	Bromodichloromethane	25	26.7	107	76-116
75-25-2	Bromoform	25	24.7	99	68-128
104-51-8	n-Butylbenzene	25	27.3	109	84-124
135-98-8	sec-Butylbenzene	25	28.2	113	86-127
98-06-6	tert-Butylbenzene	25	30.0	120	83-126
108-90-7	Chlorobenzene	25	28.0	112	87-115
75-00-3	Chloroethane	25	21.4	86	54-166
67-66-3	Chloroform	25	25.8	103	85-123
95-49-8	o-Chlorotoluene	25	28.1	112	84-121
106-43-4	p-Chlorotoluene	25	28.9	116	84-120
110-75-8	2-Chloroethyl vinyl ether	125	114	91	63-125
75-15-0	Carbon disulfide	25	26.9	108	67-147
56-23-5	Carbon tetrachloride	25	27.7	111	74-139
75-34-3	1,1-Dichloroethane	25	27.9	112	82-127
75-35-4	1,1-Dichloroethylene	25	30.4	122	75-133
563-58-6	1,1-Dichloropropene	25	29.4	118	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	25.6	102	61-118
106-93-4	1,2-Dibromoethane	25	24.7	99	80-115
107-06-2	1,2-Dichloroethane	25	26.6	106	76-122
78-87-5	1,2-Dichloropropane	25	27.0	108	81-120
142-28-9	1,3-Dichloropropane	25	25.6	102	81-113
594-20-7	2,2-Dichloropropane	25	29.0	116	77-138
124-48-1	Dibromochloromethane	25	26.9	108	74-116
75-71-8	Dichlorodifluoromethane	25	19.4	78	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.6	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.7	99	83-119
541-73-1	m-Dichlorobenzene	25	27.9	112	86-115
95-50-1	o-Dichlorobenzene	25	27.6	110	85-115
106-46-7	p-Dichlorobenzene	25	25.3	101	87-113
156-60-5	trans-1,2-Dichloroethylene	25	29.1	116	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-BS	P10122.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	87-123
100-41-4	Ethylbenzene	25	27.3	109	87-118
591-78-6	2-Hexanone	125	126	101	58-125
87-68-3	Hexachlorobutadiene	25	25.0	100	71-133
98-82-8	Isopropylbenzene	25	28.0	112	87-131
99-87-6	p-Isopropyltoluene	25	29.3	117	83-125
108-10-1	4-Methyl-2-pentanone	125	121	97	62-125
74-83-9	Methyl bromide	25	21.9	88	55-151
74-87-3	Methyl chloride	25	22.7	91	55-173
74-95-3	Methylene bromide	25	25.4	102	81-116
75-09-2	Methylene chloride	25	26.8	107	69-125
78-93-3	Methyl ethyl ketone	125	131	105	61-127
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	75-116
91-20-3	Naphthalene	25	26.8	107	59-125
103-65-1	n-Propylbenzene	25	30.1	120	86-125
100-42-5	Styrene	25	27.4	110	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	26.0	104	81-119
71-55-6	1,1,1-Trichloroethane	25	28.2	113	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	71-120
79-00-5	1,1,2-Trichloroethane	25	25.0	100	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.5	106	64-126
96-18-4	1,2,3-Trichloropropane	25	24.4	98	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.6	106	68-123
95-63-6	1,2,4-Trimethylbenzene	25	26.7	107	82-120
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	83-123
127-18-4	Tetrachloroethylene	25	27.1	108	80-131
108-88-3	Toluene	25	27.8	111	86-116
79-01-6	Trichloroethylene	25	28.6	114	85-124
75-69-4	Trichlorofluoromethane	25	24.3	97	66-156
75-01-4	Vinyl chloride	25	26.5	106	57-153
108-05-4	Vinyl Acetate	125	137	110	38-159
	m,p-Xylene	50	57.8	116	86-121
95-47-6	o-Xylene	25	28.7	115	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP409-BS	P10122.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	101%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96733-18MS	P10135.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18MSD	P10136.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18	P10133.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	F96733-18 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	114	91	133	106	15*	59-134/14
107-02-8	Acrolein	25	U	125	137	110	114	91	18	33-157/21
107-13-1	Acrylonitrile	10	U	125	122	98	124	99	2	62-124/13
71-43-2	Benzene	1.0	U	25	28.2	113	27.7	111	2	83-124/11
108-86-1	Bromobenzene	1.0	U	25	26.3	105	26.7	107	2	83-115/10
74-97-5	Bromochloromethane	1.0	U	25	23.3	93	23.1	92	1	78-112/10
75-27-4	Bromodichloromethane	1.0	U	25	26.9	108	24.4	98	10	76-116/10
75-25-2	Bromoform	1.0	U	25	23.3	93	22.3	89	4	68-128/11
104-51-8	n-Butylbenzene	1.0	U	25	27.7	111	28.4	114	2	84-124/10
135-98-8	sec-Butylbenzene	1.0	U	25	28.0	112	28.3	113	1	86-127/10
98-06-6	tert-Butylbenzene	1.0	U	25	30.2	121	30.6	122	1	83-126/10
108-90-7	Chlorobenzene	1.0	U	25	28.5	114	28.1	112	1	87-115/9
75-00-3	Chloroethane	2.0	U	25	21.6	86	21.6	86	0	54-166/20
67-66-3	Chloroform	1.0	U	25	26.9	108	26.3	105	2	85-123/10
95-49-8	o-Chlorotoluene	1.0	U	25	28.5	114	28.3	113	1	84-121/10
106-43-4	p-Chlorotoluene	1.0	U	25	29.0	116	29.3	117	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0	U	125	24.3	19*	ND	0*	200*	63-125/24
75-15-0	Carbon disulfide	2.0	U	25	22.7	91	20.7	83	9	67-147/12
56-23-5	Carbon tetrachloride	1.0	U	25	27.4	110	23.0	92	17*	74-139/13
75-34-3	1,1-Dichloroethane	1.0	U	25	28.0	112	27.5	110	2	82-127/10
75-35-4	1,1-Dichloroethylene	1.0	U	25	31.4	126	31.7	127	1	75-133/13
563-58-6	1,1-Dichloropropene	1.0	U	25	30.1	120	30.3	121	1	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	25	24.4	98	26.2	105	7	61-118/15
106-93-4	1,2-Dibromoethane	1.0	U	25	25.9	104	26.0	104	0	80-115/10
107-06-2	1,2-Dichloroethane	1.0	U	25	27.3	109	26.9	108	1	76-122/11
78-87-5	1,2-Dichloropropane	1.0	U	25	27.2	109	26.7	107	2	81-120/11
142-28-9	1,3-Dichloropropane	1.0	U	25	25.9	104	25.8	103	0	81-113/11
594-20-7	2,2-Dichloropropane	1.0	U	25	30.6	122	29.5	118	4	77-138/12
124-48-1	Dibromochloromethane	1.0	U	25	25.0	100	23.2	93	7	74-116/11
75-71-8	Dichlorodifluoromethane	2.0	U	25	19.8	79	18.8	75	5	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	27.1	108	27.0	108	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0	U	25	24.1	96	22.1	88	9	83-119/10
541-73-1	m-Dichlorobenzene	1.0	U	25	28.3	113	27.8	111	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0	U	25	27.8	111	28.2	113	1	85-115/9
106-46-7	p-Dichlorobenzene	1.0	U	25	25.5	102	25.8	103	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0	U	25	29.6	118	28.2	113	5	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96733-18MS	P10135.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18MSD	P10136.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18	P10133.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Compound	F96733-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	26.2	105	24.6	98	6	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	28.0	112	27.8	111	1	87-118/10
591-78-6	2-Hexanone	10 U		125	116	93	130	104	11	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	25.2	101	27.1	108	7	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	27.9	112	27.4	110	2	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	29.2	117	29.8	119	2	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	120	96	130	104	8	62-125/13
74-83-9	Methyl bromide	2.0 U		25	21.2	85	20.6	82	3	55-151/21
74-87-3	Methyl chloride	2.0 U		25	22.4	90	21.2	85	6	55-173/22
74-95-3	Methylene bromide	2.0 U		25	25.0	100	25.8	103	3	81-116/10
75-09-2	Methylene chloride	5.0 U		25	27.5	110	27.1	108	1	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	116	93	129	103	11	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	23.2	93	23.8	95	3	75-116/10
91-20-3	Naphthalene	5.0 U		25	25.1	100	29.3	117	15	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	30.5	122	30.3	121	1	86-125/10
100-42-5	Styrene	1.0 U		25	26.9	108	27.0	108	0	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	27.6	110	24.9	100	10	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	28.5	114	28.1	112	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	24.9	100	25.9	104	4	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	26.1	104	26.3	105	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	25.5	102	28.1	112	10	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	24.5	98	28.0	112	13*	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	26.2	105	28.1	112	7	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	27.4	110	26.9	108	2	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	27.5	110	27.3	109	1	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	27.8	111	27.5	110	1	80-131/12
108-88-3	Toluene	1.0 U		25	27.9	112	27.9	112	0	86-116/10
79-01-6	Trichloroethylene	3.7		25	32.9	117	31.5	111	4	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	25.7	103	25.1	100	2	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	24.6	98	24.4	98	1	57-153/22
108-05-4	Vinyl Acetate	10 U		125	143	114	146	117	2	38-159/11
	m,p-Xylene	2.0 U		50	58.7	117	57.5	115	2	86-121/10
95-47-6	o-Xylene	1.0 U		25	28.8	115	28.9	116	0	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96733-18MS	P10135.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18MSD	P10136.D	1	09/13/12	EG	n/a	n/a	VP409
F96733-18	P10133.D	1	09/13/12	EG	n/a	n/a	VP409

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96736-1, F96736-2, F96736-3, F96736-4, F96736-5, F96736-6, F96736-7, F96736-8

CAS No.	Surrogate Recoveries	MS	MSD	F96733-18	Limits
1868-53-7	Dibromofluoromethane	101%	101%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	104%	107%	76-127%
2037-26-5	Toluene-D8	102%	102%	104%	86-112%
460-00-4	4-Bromofluorobenzene	99%	101%	101%	84-120%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	X025436.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	X025436.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	X025436.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-62%
4165-62-2	Phenol-d5	32%	10-40%
118-79-6	2,4,6-Tribromophenol	76%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	87%	39-121%

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	T004066.D	1	09/14/12	FS	09/12/12	OP43496	ST210

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	T004066.D	1	09/14/12	FS	09/12/12	OP43496	ST210

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MB	T004066.D	1	09/14/12	FS	09/12/12	OP43496	ST210

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-62%
4165-62-2	Phenol-d5	36%	10-40%
118-79-6	2,4,6-Tribromophenol	73%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-BS	X025435.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	49.1	49	10-50
95-57-8	2-Chlorophenol	50	31.4	63	44-103
59-50-7	4-Chloro-3-methyl phenol	50	35.6	71	53-105
120-83-2	2,4-Dichlorophenol	50	35.9	72	53-108
105-67-9	2,4-Dimethylphenol	50	29.4	59	37-91
51-28-5	2,4-Dinitrophenol	100	79.4	79	37-111
534-52-1	4,6-Dinitro-o-cresol	100	90.7	91	62-115
95-48-7	2-Methylphenol	50	26.7	53	35-91
	3&4-Methylphenol	100	51.1	51	32-85
88-75-5	2-Nitrophenol	50	35.3	71	49-111
100-02-7	4-Nitrophenol	100	37.9	38	13-55
87-86-5	Pentachlorophenol	100	94.2	94	57-118
108-95-2	Phenol	50	13.8	28	13-54
95-95-4	2,4,5-Trichlorophenol	50	40.5	81	59-106
88-06-2	2,4,6-Trichlorophenol	50	40.1	80	58-107
83-32-9	Acenaphthene	50	39.3	79	58-106
208-96-8	Acenaphthylene	50	40.1	80	58-105
62-53-3	Aniline	50	32.2	64	43-98
120-12-7	Anthracene	50	41.4	83	65-108
92-87-5	Benzidine	50	33.4	67	15-73
56-55-3	Benzo(a)anthracene	50	42.0	84	63-111
50-32-8	Benzo(a)pyrene	50	39.1	78	62-106
205-99-2	Benzo(b)fluoranthene	50	42.0	84	63-109
191-24-2	Benzo(g,h,i)perylene	50	41.3	83	61-111
207-08-9	Benzo(k)fluoranthene	50	42.1	84	64-111
101-55-3	4-Bromophenyl phenyl ether	50	41.9	84	64-107
85-68-7	Butyl benzyl phthalate	50	42.0	84	59-114
100-51-6	Benzyl Alcohol	50	30.5	61	34-98
91-58-7	2-Chloronaphthalene	50	38.1	76	54-105
106-47-8	4-Chloroaniline	50	36.6	73	53-103
86-74-8	Carbazole	50	41.1	82	66-109
218-01-9	Chrysene	50	42.1	84	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	33.8	68	48-101
111-44-4	bis(2-Chloroethyl)ether	50	32.2	64	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	31.4	63	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	39.4	79	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-BS	X025435.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	32.6	65	41-102
122-66-7	1,2-Diphenylhydrazine	50	41.9	84	61-110
541-73-1	1,3-Dichlorobenzene	50	31.3	63	38-100
106-46-7	1,4-Dichlorobenzene	50	31.8	64	40-100
121-14-2	2,4-Dinitrotoluene	50	38.0	76	60-109
606-20-2	2,6-Dinitrotoluene	50	39.5	79	58-104
91-94-1	3,3'-Dichlorobenzidine	50	36.4	73	57-105
53-70-3	Dibenzo(a,h)anthracene	50	40.0	80	62-112
132-64-9	Dibenzofuran	50	40.5	81	61-108
84-74-2	Di-n-butyl phthalate	50	39.8	80	62-109
117-84-0	Di-n-octyl phthalate	50	41.1	82	60-120
84-66-2	Diethyl phthalate	50	39.8	80	62-109
131-11-3	Dimethyl phthalate	50	40.2	80	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.0	82	59-116
206-44-0	Fluoranthene	50	39.3	79	65-114
86-73-7	Fluorene	50	39.1	78	61-106
118-74-1	Hexachlorobenzene	50	42.3	85	62-107
87-68-3	Hexachlorobutadiene	50	33.4	67	38-107
77-47-4	Hexachlorocyclopentadiene	50	35.8	72	19-84
67-72-1	Hexachloroethane	50	32.5	65	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.7	81	61-113
78-59-1	Isophorone	50	29.3	59	56-111
90-12-0	1-Methylnaphthalene	50	35.0	70	52-102
91-57-6	2-Methylnaphthalene	50	35.6	71	56-112
88-74-4	2-Nitroaniline	50	41.8	84	60-109
99-09-2	3-Nitroaniline	50	38.6	77	52-107
100-01-6	4-Nitroaniline	50	39.7	79	59-111
91-20-3	Naphthalene	50	34.0	68	50-104
98-95-3	Nitrobenzene	50	34.2	68	52-105
62-75-9	N-Nitrosodimethylamine	50	21.9	44	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	34.5	69	51-104
86-30-6	N-Nitrosodiphenylamine	50	42.2	84	57-110
85-01-8	Phenanthrene	50	41.8	84	65-108
129-00-0	Pyrene	50	43.7	87	60-113
110-86-1	Pyridine	50	19.9	40	15-67
120-82-1	1,2,4-Trichlorobenzene	50	33.5	67	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-BS	X025435.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-62%
4165-62-2	Phenol-d5	26%	10-40%
118-79-6	2,4,6-Tribromophenol	85%	33-118%
4165-60-0	Nitrobenzene-d5	66%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	87%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MS	X025441.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
OP43496-MSD	X025442.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
F96699-7	X025440.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	F96699-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	49 U		192	124	64*	134	70*	8	10-50/40
95-57-8	2-Chlorophenol	4.9 U		96.2	64.3	67	70.5	73	9	44-103/29
59-50-7	4-Chloro-3-methyl phenol	4.9 U		96.2	72.2	75	77.8	81	7	53-105/24
120-83-2	2,4-Dichlorophenol	4.9 U		96.2	71.2	74	78.0	81	9	53-108/26
105-67-9	2,4-Dimethylphenol	4.9 U		96.2	60.2	63	65.5	68	8	37-91/28
51-28-5	2,4-Dinitrophenol	24 U		192	145	75	158	82	9	37-111/30
534-52-1	4,6-Dinitro-o-cresol	9.7 U		192	169	88	188	98	11	62-115/26
95-48-7	2-Methylphenol	4.9 U		96.2	57.8	60	63.4	66	9	35-91/30
	3&4-Methylphenol	4.9 U		192	115	60	125	65	8	32-85/29
88-75-5	2-Nitrophenol	4.9 U		96.2	70.9	74	77.1	80	8	49-111/30
100-02-7	4-Nitrophenol	24 U		192	111	58*	118	61*	6	13-55/31
87-86-5	Pentachlorophenol	24 U		192	181	94	196	102	8	57-118/26
108-95-2	Phenol	4.9 U		96.2	39.4	41	42.6	44	8	13-54/34
95-95-4	2,4,5-Trichlorophenol	4.9 U		96.2	80.5	84	88.4	92	9	59-106/23
88-06-2	2,4,6-Trichlorophenol	4.9 U		96.2	77.0	80	84.3	88	9	58-107/24
83-32-9	Acenaphthene	4.9 U		96.2	76.4	79	83.2	87	9	58-106/21
208-96-8	Acenaphthylene	4.9 U		96.2	76.0	79	84.5	88	11	58-105/21
62-53-3	Aniline	4.9 U		96.2	67.4	70	74.7	78	10	43-98/28
120-12-7	Anthracene	4.9 U		96.2	78.7	82	88.1	92	11	65-108/19
92-87-5	Benzidine	24 U		96.2	49.3	51	59.8	62	19	15-73/23
56-55-3	Benzo(a)anthracene	4.9 U		96.2	80.9	84	88.6	92	9	63-111/19
50-32-8	Benzo(a)pyrene	4.9 U		96.2	76.4	79	84.9	88	11	62-106/20
205-99-2	Benzo(b)fluoranthene	4.9 U		96.2	80.1	83	85.1	89	6	63-109/20
191-24-2	Benzo(g,h,i)perylene	4.9 U		96.2	81.8	85	91.1	95	11	61-111/21
207-08-9	Benzo(k)fluoranthene	4.9 U		96.2	85.6	89	98.3	102	14	64-111/20
101-55-3	4-Bromophenyl phenyl ether	4.9 U		96.2	79.8	83	87.7	91	9	64-107/20
85-68-7	Butyl benzyl phthalate	4.9 U		96.2	82.2	85	92.0	96	11	59-114/20
100-51-6	Benzyl Alcohol	4.9 U		96.2	65.6	68	71.2	74	8	34-98/27
91-58-7	2-Chloronaphthalene	4.9 U		96.2	73.7	77	82.2	85	11	54-105/24
106-47-8	4-Chloroaniline	4.9 U		96.2	68.3	71	78.0	81	13	53-103/22
86-74-8	Carbazole	4.9 U		96.2	78.0	81	86.3	90	10	66-109/20
218-01-9	Chrysene	4.9 U		96.2	82.6	86	91.0	95	10	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	4.9 U		96.2	68.1	71	75.6	79	10	48-101/28
111-44-4	bis(2-Chloroethyl)ether	4.9 U		96.2	64.1	67	70.5	73	10	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	4.9 U		96.2	60.6	63	67.7	70	11	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	4.9 U		96.2	75.7	79	82.8	86	9	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MS	X025441.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
OP43496-MSD	X025442.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
F96699-7	X025440.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	F96699-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	4.9 U		96.2	65.2	68	70.9	74	8	41-102/28
122-66-7	1,2-Diphenylhydrazine	4.9 U		96.2	79.9	83	88.8	92	11	61-110/20
541-73-1	1,3-Dichlorobenzene	4.9 U		96.2	62.9	65	69.0	72	9	38-100/28
106-46-7	1,4-Dichlorobenzene	4.9 U		96.2	64.4	67	70.4	73	9	40-100/28
121-14-2	2,4-Dinitrotoluene	4.9 U		96.2	74.9	78	81.1	84	8	60-109/20
606-20-2	2,6-Dinitrotoluene	4.9 U		96.2	75.5	79	82.3	86	9	58-104/21
91-94-1	3,3'-Dichlorobenzidine	9.7 U		96.2	67.6	70	76.3	79	12	57-105/25
53-70-3	Dibenzo(a,h)anthracene	4.9 U		96.2	78.6	82	84.7	88	7	62-112/20
132-64-9	Dibenzofuran	4.9 U		96.2	77.3	80	84.6	88	9	61-108/20
84-74-2	Di-n-butyl phthalate	4.9 U		96.2	76.7	80	84.1	87	9	62-109/20
117-84-0	Di-n-octyl phthalate	4.9 U		96.2	80.2	83	87.6	91	9	60-120/24
84-66-2	Diethyl phthalate	4.9 U		96.2	77.2	80	84.1	87	9	62-109/19
131-11-3	Dimethyl phthalate	4.9 U		96.2	76.8	80	85.0	88	10	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	4.9 U		96.2	80.2	83	88.6	92	10	59-116/21
206-44-0	Fluoranthene	4.9 U		96.2	74.7	78	82.1	85	9	65-114/21
86-73-7	Fluorene	4.9 U		96.2	76.4	79	82.7	86	8	61-106/19
118-74-1	Hexachlorobenzene	4.9 U		96.2	79.2	82	88.9	92	12	62-107/20
87-68-3	Hexachlorobutadiene	4.9 U		96.2	67.1	70	74.9	78	11	38-107/30
77-47-4	Hexachlorocyclopentadiene	9.7 U		96.2	75.3	78	81.1	84	7	19-84/35
67-72-1	Hexachloroethane	4.9 U		96.2	63.0	66	70.1	73	11	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.9 U		96.2	79.4	83	87.7	91	10	61-113/20
78-59-1	Isophorone	4.9 U		96.2	57.4	60	63.6	66	10	56-111/26
90-12-0	1-Methylnaphthalene	4.9 U		96.2	69.7	72	76.7	80	10	52-102/25
91-57-6	2-Methylnaphthalene	4.9 U		96.2	69.4	72	76.0	79	9	56-112/26
88-74-4	2-Nitroaniline	4.9 U		96.2	79.6	83	86.7	90	9	60-109/20
99-09-2	3-Nitroaniline	4.9 U		96.2	70.3	73	77.7	81	10	52-107/21
100-01-6	4-Nitroaniline	4.9 U		96.2	75.5	79	83.4	87	10	59-111/21
91-20-3	Naphthalene	4.9 U		96.2	68.3	71	75.5	79	10	50-104/28
98-95-3	Nitrobenzene	4.9 U		96.2	68.4	71	75.0	78	9	52-105/28
62-75-9	N-Nitrosodimethylamine	4.9 U		96.2	54.4	57	58.9	61	8	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	4.9 U		96.2	66.0	69	74.2	77	12	51-104/28
86-30-6	N-Nitrosodiphenylamine	4.9 U		96.2	82.3	86	89.8	93	9	57-110/19
85-01-8	Phenanthrene	4.9 U		96.2	80.2	83	88.7	92	10	65-108/20
129-00-0	Pyrene	4.9 U		96.2	85.7	89	96.3	100	12	60-113/20
110-86-1	Pyridine	9.7 U		96.2	49.6	52	55.5	58	11	15-67/40
120-82-1	1,2,4-Trichlorobenzene	4.9 U		96.2	68.1	71	75.1	78	10	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43496-MS	X025441.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
OP43496-MSD	X025442.D	1	09/13/12	FS	09/12/12	OP43496	SX1232
F96699-7	X025440.D	1	09/13/12	FS	09/12/12	OP43496	SX1232

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Surrogate Recoveries	MS	MSD	F96699-7	Limits
367-12-4	2-Fluorophenol	52%	55%	41%	14-62%
4165-62-2	Phenol-d5	39%	40%	25%	10-40%
118-79-6	2,4,6-Tribromophenol	83%	92%	81%	33-118%
4165-60-0	Nitrobenzene-d5	68%	75%	70%	42-108%
321-60-8	2-Fluorobiphenyl	73%	83%	72%	40-106%
1718-51-0	Terphenyl-d14	88%	97%	91%	39-121%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4788-MB	CD117405.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	57-129%
98-08-8	aaa-Trifluorotoluene	98%	58-120%

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4793-MB	CD117531.D	1	09/18/12	CP	n/a	n/a	GCD4793

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	57-129%
98-08-8	aaa-Trifluorotoluene	100%	58-120%

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4788-BS	CD117404.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-3, F96736-5, F96736-7

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.453	113	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

8.2.1

8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4793-BS	CD117530.D	1	09/18/12	CP	n/a	n/a	GCD4793

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.457	114	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	107%	57-129%
98-08-8	aaa-Trifluorotoluene	118%	58-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96736-3MS	CD117412.D	1	09/13/12	CP	n/a	n/a	GCD4788
F96736-3MSD	CD117413.D	1	09/13/12	CP	n/a	n/a	GCD4788
F96736-3	CD117410.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-3, F96736-5, F96736-7

CAS No.	Compound	F96736-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.434	109	0.432	108	0	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96736-3	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	106%	57-129%
98-08-8	aaa-Trifluorotoluene	117%	116%	100%	58-120%

8.3.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96736-1MS	CD117542.D	1	09/18/12	CP	n/a	n/a	GCD4793
F96736-1MSD	CD117543.D	1	09/18/12	CP	n/a	n/a	GCD4793
F96736-1	CD117532.D	1	09/18/12	CP	n/a	n/a	GCD4793

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1

CAS No.	Compound	F96736-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.420	105	0.411	103	2	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96736-1	Limits
460-00-4	4-Bromofluorobenzene	106%	110%	105%	57-129%
98-08-8	aaa-Trifluorotoluene	115%	115%	100%	58-120%

8.3.2

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43503-MB	ST110071.D	1	09/13/12	MV	09/12/12	OP43503	GST2653

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	104%	38-127%
2051-24-3	Decachlorobiphenyl	103%	25-137%

Method Blank Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-MB	YY32253.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	100%	42-114%

9.1.2

9

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43503-BS	ST110070.D	1	09/13/12	MV	09/12/12	OP43503	GST2653

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.8	95	76-117
11096-82-5	Aroclor 1260	4	3.8	95	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	96%	38-127%
2051-24-3	Decachlorobiphenyl	100%	25-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-BS	YY32252.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	1.08	108	60-140
	TPH (> C22-C36)	1	1.40	140	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	114%	42-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43503-MS	ST110075.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
OP43503-MSD	ST110076.D	1	09/13/12	MV	09/12/12	OP43503	GST2653
F96736-1	ST110074.D	1	09/13/12	MV	09/12/12	OP43503	GST2653

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	F96736-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		7.69	7.3	95	7.3	95	0	76-117/16
11096-82-5	Aroclor 1260	ND		7.69	7.9	103	7.9	103	0	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96736-1	Limits
877-09-8	Tetrachloro-m-xylene	95%	95%	96%	38-127%
2051-24-3	Decachlorobiphenyl	109%	107%	81%	25-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96736
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-MS	YY32255.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
OP43518-MSD	YY32256.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
F96768-9	YY32254.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96736-1, F96736-3, F96736-5, F96736-7

CAS No.	Compound	F96768-9 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		1.92	1.97	102	2.10	109	6	60-140/30
	TPH (> C22-C36)	ND		1.92	2.77	144*	2.80	146*	1	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	F96768-9	Limits
84-15-1	o-Terphenyl	107%	112%	93%	42-114%

9.3.2

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23651
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/12/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.027	<1.0

Associated samples MP23651: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23651
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/12/12 09/12/12

Metal	F96701-1 Original	DUP	RPD	QC Limits	F96701-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.68	0.65	4.5	0-20	0.68	3.3	3	87.3	80-120

Associated samples MP23651: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23651
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/12/12

Metal	F96701-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.68	3.2	3	84.0	3.1	20

Associated samples MP23651: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23651
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/12/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.1	3	103.3	80-120

Associated samples MP23651: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23651
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/12/12

Metal	F96701-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.677	0.546	19.3 (a)	0-10

Associated samples MP23651: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25	3.3	<200
Antimony	6.0	1	2	0.20	<6.0
Arsenic	10	1	2	-1.3	<10
Barium	200	1	5	0.10	<200
Beryllium	4.0	.1	1	0.10	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100	5.5	<1000
Chromium	10	1	1	0.40	<10
Cobalt	50	1	1	0.10	<50
Copper	25	1	2	-0.10	<25
Iron	300	34	35	0.80	<300
Lead	5.0	1	1	1.1	<5.0
Magnesium	5000	50	100	8.6	<5000
Manganese	15	1	1	0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2	0.0	<40
Potassium	10000	50	500	-8.2	<10000
Selenium	10	2	2	1.1	<10
Silver	10	1	1	0.0	<10
Sodium	10000	750	1900	-8.7	<10000
Strontium	10	1	1		
Thallium	10	1	1.9	0.80	<10
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	0.10	<50
Zinc	20	1	5	-0.20	<20

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12 09/12/12

Metal	F96736-1 Original	DUP	RPD	QC Limits	F96736-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	96.6	105	8.3	0-20	96.6	31500	27000	116.3	80-120
Antimony	4.5	4.1	9.3	0-20	4.5	591	500	117.3	80-120
Arsenic	4.9	4.2	15.4	0-20	4.9	2410	2000	120.3N(b	80-120
Barium	49.5	51.0	3.0	0-20	49.5	2340	2000	114.5	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	55.2	50	110.4	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	48.7	50	97.4	80-120
Calcium	585000	604000	3.2	0-20	585000	660000	25000	300.0(c)	80-120
Chromium	14.1	14.1	0.0	0-20	14.1	229	200	107.5	80-120
Cobalt	0.0	0.0	NC	0-20	0.0	508	500	101.6	80-120
Copper	2.8	2.7	3.6	0-20	2.8	302	250	119.7	80-120
Iron	41.2	38.7	6.3	0-20	41.2	28400	26000	109.1	80-120
Lead	0.0	1.2	200.0(a)	0-20	0.0	524	500	104.8	80-120
Magnesium	292000	304000	4.0	0-20	292000	352000	25000	240.0(c)	80-120
Manganese	80.2	82.4	2.7	0-20	80.2	629	500	109.8	80-120
Molybdenum									
Nickel	1.6	1.5	6.5	0-20	1.6	511	500	101.9	80-120
Potassium	34600	35900	3.7	0-20	34600	67900	25000	133.2N(b	80-120
Selenium	6.3	8.2	26.2 (a)	0-20	6.3	2560	2000	127.7N(b	80-120
Silver	0.0	0.0	NC	0-20	0.0	60.3	50	120.6N(b	80-120
Sodium	1020000	1090000	6.6	0-20	1020000	1170000	25000	600.0(c)	80-120
Strontium									
Thallium	1.3	0.0	200.0(a)	0-20	1.3	1980	2000	98.9	80-120
Tin									
Titanium									
Vanadium	74.7	76.3	2.1	0-20	74.7	653	500	115.7	80-120
Zinc	2.6	2.6	0.0	0-20	2.6	521	500	103.7	80-120

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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 recovery indicates possible matrix interference.
(c) 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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12

Metal	F96736-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	96.6	31300	27000	115.6	0.6	20
Antimony	4.5	575	500	114.1	2.7	20
Arsenic	4.9	2350	2000	117.3	2.5	20
Barium	49.5	2300	2000	112.5	1.7	20
Beryllium	0.0	54.5	50	109.0	1.3	20
Cadmium	0.0	47.3	50	94.6	2.9	20
Calcium	585000	678000	25000	372.0(a)	2.7	20
Chromium	14.1	224	200	105.0	2.2	20
Cobalt	0.0	495	500	99.0	2.6	20
Copper	2.8	298	250	118.1	1.3	20
Iron	41.2	28200	26000	108.3	0.7	20
Lead	0.0	513	500	102.6	2.1	20
Magnesium	292000	358000	25000	264.0(a)	1.7	20
Manganese	80.2	619	500	107.8	1.6	20
Molybdenum						
Nickel	1.6	500	500	99.7	2.2	20
Potassium	34600	68900	25000	137.2N(b	1.5	20
Selenium	6.3	2500	2000	124.7N(b	2.4	20
Silver	0.0	58.2	50	116.4	3.5	20
Sodium	1020000	1190000	25000	680.0(a)	1.7	20
Strontium						
Thallium	1.3	1940	2000	96.9	2.0	20
Tin						
Titanium						
Vanadium	74.7	646	500	114.3	1.1	20
Zinc	2.6	509	500	101.3	2.3	20

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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.
(b) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29300	27000	108.5	80-120
Antimony	535	500	107.0	80-120
Arsenic	2110	2000	105.5	80-120
Barium	2200	2000	110.0	80-120
Beryllium	54.8	50	109.6	80-120
Cadmium	52.4	50	104.8	80-120
Calcium	26900	25000	107.6	80-120
Chromium	218	200	109.0	80-120
Cobalt	545	500	109.0	80-120
Copper	271	250	108.4	80-120
Iron	28400	26000	109.2	80-120
Lead	511	500	102.2	80-120
Magnesium	26400	25000	105.6	80-120
Manganese	550	500	110.0	80-120
Molybdenum				
Nickel	553	500	110.6	80-120
Potassium	26900	25000	107.6	80-120
Selenium	2100	2000	105.0	80-120
Silver	50.9	50	101.8	80-120
Sodium	27100	25000	108.4	80-120
Strontium				
Thallium	2110	2000	105.5	80-120
Tin				
Titanium				
Vanadium	558	500	111.6	80-120
Zinc	541	500	108.2	80-120

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12

Metal	F96736-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	96.6	185	91.3 (a)	0-10
Antimony	4.50	5.30	17.8 (a)	0-10
Arsenic	4.90	5.50	12.2 (a)	0-10
Barium	49.5	50.6	2.2	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	585000	626000	7.0	0-10
Chromium	14.1	15.6	10.6 (a)	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	2.80	0.00	100.0(a)	0-10
Iron	41.2	0.00	100.0(a)	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	292000	289000	1.3	0-10
Manganese	80.2	83.6	4.2	0-10
Molybdenum				
Nickel	1.60	0.00	100.0(a)	0-10
Potassium	34600	33700	2.7	0-10
Selenium	6.30	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1020000	1010000	0.7	0-10
Strontium				
Thallium	1.30	0.00	100.0(a)	0-10
Tin				
Titanium				
Vanadium	74.7	75.5	1.1	0-10
Zinc	2.60	0.00	100.0(a)	0-10

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23656
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/12/12

Metal	Sample ml	Final ml	F96736-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	96.6	94.668	2817	0.2	125	2500	108.9	80-120
Antimony	9.8	10	4.5	4.41	116	0.2	5	100	111.6	80-120
Arsenic	9.8	10	4.9	4.802	118.2	0.2	5	100	113.4	80-120
Barium	9.8	10	49.5	48.51	313.6	0.2	12.5	250	106.0	80-120
Beryllium	9.8	10	0	0	52.3	0.2	2.5	50	104.6	80-120
Cadmium	9.8	10	0	0	49.8	0.2	2.5	50	99.6	80-120
Calcium	9.8	10	585100	573398	559300	0.2	250	5000	-282.0*a	80-120
Chromium	9.8	10	14.1	13.818	64.8	0.2	2.5	50	102.0	80-120
Cobalt	9.8	10	0	0	50.5	0.2	2.5	50	101.0	80-120
Copper	9.8	10	2.8	2.744	115.1	0.2	5	100	112.4	80-120
Iron	9.8	10	41.2	40.376	3146	0.2	150	3000	103.5	80-120
Lead	9.8	10	0	0	49.9	0.2	2.5	50	99.8	80-120
Magnesium	9.8	10	292400	286552	284800	0.2	250	5000	-35.0*(a	80-120
Manganese	9.8	10	80.2	78.596	129.3	0.2	2.5	50	101.4	80-120
Molybdenum										
Nickel	9.8	10	1.6	1.568	99.4	0.2	5	100	97.8	80-120
Potassium	9.8	10	34570	33878.6	44020	0.2	500	10000	101.4	80-120
Selenium	9.8	10	6.3	6.174	129.8	0.2	5	100	123.6*(a	80-120
Silver	9.8	10	0	0	54.9	0.2	2.5	50	109.8	80-120
Sodium	9.8	10	1018000	997640	1052000	0.2	500	10000	543.6*(a	80-120
Strontium										
Thallium	9.8	10	1.3	1.274	93.7	0.2	5	100	92.4	80-120
Tin										
Titanium										
Vanadium	9.8	10	74.7	73.206	124	0.2	2.5	50	101.6	80-120
Zinc	9.8	10	2.6	2.548	288.6	0.2	12.5	250	114.4	80-120

Associated samples MP23656: F96736-1, F96736-3, F96736-5, F96736-7, F96736-1F, F96736-3F, F96736-5F, F96736-7F

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.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN51735	100	33.0	mg/l				

Associated Samples:
Batch GN51735: F96736-1, F96736-3, F96736-5, F96736-7
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96736
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN51735	F96736-3	mg/l	2720	2770	1.8	0-5%

Associated Samples:
Batch GN51735: F96736-1, F96736-3, F96736-5, F96736-7
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

09/25/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F96768

Sampling Dates: 09/10/12 - 09/11/12

Report to:

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Lakewood, CO 80228
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ATTN: Marcia Olive

Total number of pages in report: **206**

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: Jean Dent-Smith 407-425-6700

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96768

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96768-1	09/10/12	16:00	BPL	09/12/12	AQ	Ground Water	SS18-MW07
F96768-1F	09/10/12	16:00	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW07
F96768-2	09/10/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-3	09/10/12	13:40	BPL	09/12/12	AQ	Ground Water	SS18-MW15
F96768-3F	09/10/12	13:40	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW15
F96768-4	09/10/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-5	09/10/12	15:30	BPL	09/12/12	AQ	Ground Water	SS18-MW08
F96768-5F	09/10/12	15:30	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW08
F96768-6	09/10/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-7	09/11/12	08:30	BPL	09/12/12	AQ	Ground Water	SS18-MW12
F96768-7F	09/11/12	08:30	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW12
F96768-8	09/11/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-9	09/11/12	08:30	BPL	09/12/12	AQ	Ground Water	SS18-MW09

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96768

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96768-9F	09/11/12	08:30	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW09
F96768-10	09/11/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-11	09/11/12	10:40	BPL	09/12/12	AQ	Ground Water	SS18-MW10
F96768-11F	09/11/12	10:40	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW10
F96768-12	09/11/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK
F96768-13	09/11/12	10:00	BPL	09/12/12	AQ	Ground Water	SS18-MW11
F96768-13F	09/11/12	10:00	BPL	09/12/12	AQ	Groundwater Filtered	SS18-MW11
F96768-14	09/11/12	00:00	BPL	09/12/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96768

Site: Holloman AFB; SS18 **Report Date** 9/25/2012 12:42:47

7 Samples and 7 Trip Blanks were collected between 09/10/2012 and 09/11/2012 and were received at Accutest on 09/12/2012 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F96768. 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:** VB3521

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96611-2MS, F96611-2MSD were used as the QC samples indicated.

F96768-4: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VB3522

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96643-7MS, F96643-7MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acetone are outside control limits. SB recovery is biased high. Analyte is non-detect in associated samples; therefore data integrity is not compromised.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Chloroform are outside control limits. Probable cause due to matrix interference.

F96768-6 for Acetone: Associated BS recovery outside control limits.

F96768-7 for Acetone: Associated BS recovery outside control limits.

F96768-8 for Acetone: Associated BS recovery outside control limits.

F96768-9 for Acetone: Associated BS recovery outside control limits.

F96768-10 for Acetone: Associated BS recovery outside control limits.

F96768-11 for Acetone: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VP411

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96793-2MS, F96793-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acetone are outside control limits. SB recovery is biased high. Analyte is non-detect in associated samples; therefore data integrity is not compromised.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Chlorobenzene, p-Chlorotoluene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for cis-1,3-Dichloropropene, Styrene are outside control limits for sample F96793-2MSD. Probable cause due to sample non-homogeneity.

F96768-12 for Acetone: Associated BS recovery outside control limits.

F96768-13 for Acetone: Associated BS recovery outside control limits.

F96768-14 for Acetone: Associated BS recovery outside control limits.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43510

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) F96766-29MS, F96766-29MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzoic Acid are outside control limits. SB recovery is biased high. Analyte is non-detect in associated samples; therefore data integrity is not comrpomised.

Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Chloroaniline, 4-Nitrophenol, Benzoic Acid are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitrophenol, Benzoic Acid are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for 3,3'-Dichlorobenzidine are outside control limits for sample OP43510-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP43510-MS has surrogates outside control limits. Probable cause due to matrix interference.

F96768-1 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-3 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-5 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-7 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-9 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-11 for Benzoic Acid: Associated BS recovery outside control limits.

F96768-13 for Benzoic Acid: Associated BS recovery outside control limits.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GCD4788

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96736-3MS, F96736-3MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP43518

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) F96768-9MS, F96768-9MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for TPH (>C22-C36) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43519

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) F96768-11MS, F96768-11MSD were used as the QC samples indicated.

Metals By Method EPA 200.7

Matrix: AQ **Batch ID:** MP23665

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) F96768-1DUP, F96768-1MS, F96768-1MSD, F96768-1PS, F96768-1SDL, F96768-1FDUP, F96768-1FMS, F96768-1FMSD, F96768-1FPS, F96768-1FSDL were used as the QC samples for metals.

Metals By Method EPA 200.7

Matrix: AQ **Batch ID:** MP23665

Matrix Spike Recovery(s) for Selenium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD Recovery(s) for Calcium, 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, Chromium are outside control limits for sample MP23665-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Duplicate for Arsenic, Selenium, Zinc are outside control limits for sample MP23665-D2. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Antimony, Arsenic, Chromium are outside control limits for sample MP23665-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

RPD(s) for Serial Dilution for Aluminum, Antimony, Arsenic, Selenium, Vanadium, Zinc are outside control limits for sample MP23665-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23665-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23665-PS2 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method EPA 245.1

Matrix: AQ **Batch ID:** MP23666

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) F96768-1DUP, F96768-1MS, F96768-1MSD, F96768-1SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23667

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) F96768-7FDUP, F96768-7FMS, F96768-7FMSD, F96768-7FSDL were used as the QC samples for metals.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN51735

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96768-1DUP was used as the QC samples for Solids, Total Dissolved.

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: September 25, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96768-1	**SS18-MW07**					
sec-Butylbenzene		6.6	1.0	0.22	ug/l	SW846 8260B
tert-Butylbenzene		1.4	1.0	0.27	ug/l	SW846 8260B
1,1-Dichloroethane		0.29 J	1.0	0.25	ug/l	SW846 8260B
Dibenzofuran		1.4 J	4.8	0.48	ug/l	SW846 8270D
TPH-GRO (C6-C10)		0.0736 J	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		1.10	0.24	0.097	mg/l	SW846 8015C
TPH (> C22-C36)		0.128 J	0.24	0.097	mg/l	SW846 8015C
Aluminum		161 J	200	25	ug/l	EPA 200.7
Arsenic		36.3	10	2.0	ug/l	EPA 200.7
Barium		24.5 J	200	5.0	ug/l	EPA 200.7
Calcium		656000	5000	500	ug/l	EPA 200.7
Chromium		1.7 J	10	1.0	ug/l	EPA 200.7
Copper		48.6	25	2.0	ug/l	EPA 200.7
Iron		270 J	300	35	ug/l	EPA 200.7
Magnesium		107000	5000	100	ug/l	EPA 200.7
Manganese		92.4	15	1.0	ug/l	EPA 200.7
Nickel		19.9 J	40	2.0	ug/l	EPA 200.7
Potassium		7490 J	10000	500	ug/l	EPA 200.7
Sodium		179000	50000	9500	ug/l	EPA 200.7
Vanadium		8.3 J	50	1.0	ug/l	EPA 200.7
Zinc		1790	20	5.0	ug/l	EPA 200.7
Solids, Total Dissolved		3510	200	20	mg/l	SM19 2540C
F96768-1F	**SS18-MW07**					
Aluminum		74.4 J	200	25	ug/l	EPA 200.7
Antimony		3.1 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		3.5 J	10	2.0	ug/l	EPA 200.7
Barium		23.3 J	200	5.0	ug/l	EPA 200.7
Calcium		642000	5000	500	ug/l	EPA 200.7
Magnesium		108000	5000	100	ug/l	EPA 200.7
Manganese		83.0	15	1.0	ug/l	EPA 200.7
Potassium		7520 J	10000	500	ug/l	EPA 200.7
Selenium		2.4 J	10	2.0	ug/l	EPA 200.7
Sodium		180000	50000	9500	ug/l	EPA 200.7
Vanadium		5.6 J	50	1.0	ug/l	EPA 200.7
F96768-2	**TRIP BLANK**					

No hits reported in this sample.

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96768-3	**SS18-MW15**					
Chloroform		0.61 J	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethylene		1.0	1.0	0.23	ug/l	SW846 8260B
Aluminum		871	200	25	ug/l	EPA 200.7
Antimony		4.4 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		17.3	10	2.0	ug/l	EPA 200.7
Barium		25.9 J	200	5.0	ug/l	EPA 200.7
Calcium		547000	1000	100	ug/l	EPA 200.7
Chromium		11.9	10	1.0	ug/l	EPA 200.7
Iron		1030	300	35	ug/l	EPA 200.7
Magnesium		366000	5000	100	ug/l	EPA 200.7
Manganese		12.8 J	15	1.0	ug/l	EPA 200.7
Potassium		17200	10000	500	ug/l	EPA 200.7
Selenium		8.7 J	10	2.0	ug/l	EPA 200.7
Sodium		1140000	200000	38000	ug/l	EPA 200.7
Vanadium		76.2	50	1.0	ug/l	EPA 200.7
Zinc		5.9 J	20	5.0	ug/l	EPA 200.7
Solids, Total Dissolved		6950	400	40	mg/l	SM19 2540C
F96768-3F	**SS18-MW15**					
Aluminum		64.2 J	200	25	ug/l	EPA 200.7
Antimony		3.8 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		17.8	10	2.0	ug/l	EPA 200.7
Barium		12.0 J	200	5.0	ug/l	EPA 200.7
Calcium		510000	1000	100	ug/l	EPA 200.7
Chromium		6.3 J	10	1.0	ug/l	EPA 200.7
Magnesium		353000	5000	100	ug/l	EPA 200.7
Nickel		3.0 J	40	2.0	ug/l	EPA 200.7
Potassium		16000	10000	500	ug/l	EPA 200.7
Selenium		5.4 J	10	2.0	ug/l	EPA 200.7
Sodium		1120000	200000	38000	ug/l	EPA 200.7
Vanadium		68.9	50	1.0	ug/l	EPA 200.7
F96768-4	**TRIP BLANK**					
No hits reported in this sample.						
F96768-5	**SS18-MW08**					
Bromodichloromethane		0.24 J	1.0	0.20	ug/l	SW846 8260B
Chloroform		3.3	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		27.2	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		95.5	5.0	1.2	ug/l	SW846 8260B

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,2-Dichloroethane	0.90 J	1.0	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.36 J	1.0	0.26	ug/l	SW846 8260B
Tetrachloroethylene	28.2	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene	6.5	1.0	0.26	ug/l	SW846 8260B
Aluminum	75.5 J	200	25	ug/l	EPA 200.7
Antimony	7.7	6.0	2.0	ug/l	EPA 200.7
Arsenic	18.7	10	2.0	ug/l	EPA 200.7
Barium	15.6 J	200	5.0	ug/l	EPA 200.7
Calcium	812000	5000	500	ug/l	EPA 200.7
Magnesium	1050000	25000	500	ug/l	EPA 200.7
Potassium	20800	10000	500	ug/l	EPA 200.7
Selenium	7.6 J	10	2.0	ug/l	EPA 200.7
Sodium	4620000	1000000	190000	ug/l	EPA 200.7
Vanadium	70.8	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved	13600	2500	250	mg/l	SM19 2540C
F96768-5F SS18-MW08					
Aluminum	73.5 J	200	25	ug/l	EPA 200.7
Antimony	6.7	6.0	2.0	ug/l	EPA 200.7
Arsenic	18.0	10	2.0	ug/l	EPA 200.7
Barium	15.7 J	200	5.0	ug/l	EPA 200.7
Calcium	785000	5000	500	ug/l	EPA 200.7
Magnesium	1020000	25000	500	ug/l	EPA 200.7
Potassium	20800	10000	500	ug/l	EPA 200.7
Selenium	7.8 J	10	2.0	ug/l	EPA 200.7
Sodium	4560000	1000000	190000	ug/l	EPA 200.7
Vanadium	70.6	50	1.0	ug/l	EPA 200.7
F96768-6 TRIP BLANK					
No hits reported in this sample.					
F96768-7 SS18-MW12					
Chloroform	1.0	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane	9.0	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene	0.70 J	1.0	0.23	ug/l	SW846 8260B
Methylene chloride	3.0 J	5.0	2.0	ug/l	SW846 8260B
1,1,1-Trichloroethane	1.2	1.0	0.20	ug/l	SW846 8260B
Aluminum	60.4 J	200	25	ug/l	EPA 200.7
Antimony	3.6 J	6.0	2.0	ug/l	EPA 200.7
Arsenic	20.1	10	2.0	ug/l	EPA 200.7
Barium	17.0 J	200	5.0	ug/l	EPA 200.7
Calcium	666000	5000	500	ug/l	EPA 200.7

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		106000	5000	100	ug/l	EPA 200.7
Manganese		597	15	1.0	ug/l	EPA 200.7
Potassium		5080 J	10000	500	ug/l	EPA 200.7
Sodium		143000	50000	9500	ug/l	EPA 200.7
Vanadium		92.3	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		3500	200	20	mg/l	SM19 2540C
F96768-7F	**SS18-MW12**					
Aluminum		58.5 J	200	25	ug/l	EPA 200.7
Antimony		3.4 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		21.0	10	2.0	ug/l	EPA 200.7
Barium		17.2 J	200	5.0	ug/l	EPA 200.7
Calcium		750000	5000	500	ug/l	EPA 200.7
Cobalt		1.1 J	50	1.0	ug/l	EPA 200.7
Magnesium		107000	5000	100	ug/l	EPA 200.7
Manganese		583	15	1.0	ug/l	EPA 200.7
Potassium		4990 J	10000	500	ug/l	EPA 200.7
Selenium		4.7 J	10	2.0	ug/l	EPA 200.7
Sodium		161000	50000	9500	ug/l	EPA 200.7
Vanadium		89.4	50	1.0	ug/l	EPA 200.7
F96768-8	**TRIP BLANK**					
No hits reported in this sample.						
F96768-9	**SS18-MW09**					
1,1-Dichloroethylene		1.2	1.0	0.23	ug/l	SW846 8260B
Aluminum		175 J	200	25	ug/l	EPA 200.7
Antimony		4.0 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		10.7	10	2.0	ug/l	EPA 200.7
Barium		27.4 J	200	5.0	ug/l	EPA 200.7
Calcium		516000	1000	100	ug/l	EPA 200.7
Chromium		2.9 J	10	1.0	ug/l	EPA 200.7
Copper		2.1 J	25	2.0	ug/l	EPA 200.7
Iron		141 J	300	35	ug/l	EPA 200.7
Magnesium		304000	5000	100	ug/l	EPA 200.7
Manganese		78.7	15	1.0	ug/l	EPA 200.7
Nickel		5.5 J	40	2.0	ug/l	EPA 200.7
Potassium		11400	10000	500	ug/l	EPA 200.7
Selenium		8.1 J	10	2.0	ug/l	EPA 200.7
Sodium		758000	200000	38000	ug/l	EPA 200.7
Vanadium		76.1	50	1.0	ug/l	EPA 200.7
Zinc		11.2 J	20	5.0	ug/l	EPA 200.7

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Solids, Total Dissolved		6180	400	40	mg/l	SM19 2540C
F96768-9F	**SS18-MW09**					
Aluminum		51.3 J	200	25	ug/l	EPA 200.7
Antimony		3.1 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		10.3	10	2.0	ug/l	EPA 200.7
Barium		27.5 J	200	5.0	ug/l	EPA 200.7
Calcium		531000	1000	100	ug/l	EPA 200.7
Magnesium		323000	5000	100	ug/l	EPA 200.7
Manganese		77.7	15	1.0	ug/l	EPA 200.7
Nickel		4.9 J	40	2.0	ug/l	EPA 200.7
Potassium		11600	10000	500	ug/l	EPA 200.7
Selenium		8.0 J	10	2.0	ug/l	EPA 200.7
Sodium		769000	200000	38000	ug/l	EPA 200.7
Vanadium		76.3	50	1.0	ug/l	EPA 200.7
F96768-10	**TRIP BLANK**					
No hits reported in this sample.						
F96768-11	**SS18-MW10**					
Aluminum		1590	200	25	ug/l	EPA 200.7
Antimony		4.4 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		16.6	10	2.0	ug/l	EPA 200.7
Barium		37.3 J	200	5.0	ug/l	EPA 200.7
Calcium		512000	1000	100	ug/l	EPA 200.7
Chromium		3.8 J	10	1.0	ug/l	EPA 200.7
Copper		3.4 J	25	2.0	ug/l	EPA 200.7
Iron		1180	300	35	ug/l	EPA 200.7
Magnesium		296000	5000	100	ug/l	EPA 200.7
Manganese		98.8	15	1.0	ug/l	EPA 200.7
Potassium		6470 J	10000	500	ug/l	EPA 200.7
Selenium		5.7 J	10	2.0	ug/l	EPA 200.7
Sodium		355000	100000	19000	ug/l	EPA 200.7
Vanadium		104	50	1.0	ug/l	EPA 200.7
Zinc		16.4 J	20	5.0	ug/l	EPA 200.7
Solids, Total Dissolved		4930	400	40	mg/l	SM19 2540C
F96768-11F	**SS18-MW10**					
Aluminum		58.5 J	200	25	ug/l	EPA 200.7
Antimony		2.6 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		15.4	10	2.0	ug/l	EPA 200.7

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		19.0 J	200	5.0	ug/l	EPA 200.7
Calcium		521000	1000	100	ug/l	EPA 200.7
Magnesium		299000	5000	100	ug/l	EPA 200.7
Manganese		63.3	15	1.0	ug/l	EPA 200.7
Potassium		6870 J	10000	500	ug/l	EPA 200.7
Selenium		4.8 J	10	2.0	ug/l	EPA 200.7
Sodium		335000	100000	19000	ug/l	EPA 200.7
Vanadium		99.5	50	1.0	ug/l	EPA 200.7
F96768-12	**TRIP BLANK**					
No hits reported in this sample.						
F96768-13	**SS18-MW11**					
Chloroform		1.1	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethylene		0.27 J	1.0	0.23	ug/l	SW846 8260B
TPH (C10-C22)		0.0999 J	0.24	0.095	mg/l	SW846 8015C
TPH (> C22-C36)		0.101 J	0.24	0.095	mg/l	SW846 8015C
Aluminum		301	200	25	ug/l	EPA 200.7
Antimony		2.8 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		8.7 J	10	2.0	ug/l	EPA 200.7
Barium		30.1 J	200	5.0	ug/l	EPA 200.7
Calcium		678000	5000	500	ug/l	EPA 200.7
Iron		154 J	300	35	ug/l	EPA 200.7
Magnesium		85300	5000	100	ug/l	EPA 200.7
Manganese		44.6	15	1.0	ug/l	EPA 200.7
Potassium		5510 J	10000	500	ug/l	EPA 200.7
Selenium		5.1 J	10	2.0	ug/l	EPA 200.7
Sodium		167000	50000	9500	ug/l	EPA 200.7
Vanadium		89.9	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		2990	200	20	mg/l	SM19 2540C
F96768-13F	**SS18-MW11**					
Aluminum		55.3 J	200	25	ug/l	EPA 200.7
Antimony		3.5 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		6.3 J	10	2.0	ug/l	EPA 200.7
Barium		27.6 J	200	5.0	ug/l	EPA 200.7
Calcium		616000	5000	500	ug/l	EPA 200.7
Magnesium		77900	5000	100	ug/l	EPA 200.7
Manganese		34.5	15	1.0	ug/l	EPA 200.7
Potassium		5250 J	10000	500	ug/l	EPA 200.7
Selenium		3.2 J	10	2.0	ug/l	EPA 200.7
Sodium		141000	50000	9500	ug/l	EPA 200.7

Summary of Hits

Job Number: F96768
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/11/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		78.7	50	1.0	ug/l	EPA 200.7

F96768-14 **TRIP BLANK**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085686.D	1	09/14/12	WV	n/a	n/a	VB3521
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	6.6	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	1.4	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.29	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

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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:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025467.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	1.4	4.8	0.48	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

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RL = Reporting Limit
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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:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

(a) Associated BS recovery outside control limits.

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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:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117411.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0736	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		57-129%
98-08-8	aaa-Trifluorotoluene	106%		58-120%

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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:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110127.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		38-127%
2051-24-3	Decachlorobiphenyl	81%		25-137%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32264.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	1.10	0.24	0.097	mg/l	
	TPH (> C22-C36)	0.128	0.24	0.097	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		42-114%

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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: SS18-MW07
Lab Sample ID: F96768-1
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	161 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	36.3	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	24.5 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	656000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.7 J	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	48.6	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	270 J	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	107000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	92.4	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	19.9 J	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	7490 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	179000	50000	9500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	8.3 J	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	1790	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW07		
Lab Sample ID:	F96768-1	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3510	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW07
Lab Sample ID: F96768-1F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/12/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	74.4 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.1 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	3.5 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	23.3 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	642000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	108000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	83.0	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	7520 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	2.4 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	180000	50000	9500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	5.6 J	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085687.D	1	09/14/12	WV	n/a	n/a	VB3521
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-2	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085688.D	1	09/14/12	WV	n/a	n/a	VB3521
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.61	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	1.0	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025468.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117417.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	100%		58-120%

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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110117.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		38-127%
2051-24-3	Decachlorobiphenyl	97%		25-137%

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:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32265.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	ND	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		42-114%

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: SS18-MW15
Lab Sample ID: F96768-3
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	871	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	4.4 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	17.3	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	25.9 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	547000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	11.9	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	1030	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	366000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	12.8 J	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	17200	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	8.7 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	1140000	200000	38000	ug/l	20	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	76.2	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.9 J	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW15		
Lab Sample ID:	F96768-3	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6950	400	40	mg/l	4	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW15
Lab Sample ID: F96768-3F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/12/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	64.2 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.8 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	17.8	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	12.0 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	510000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	6.3 J	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	353000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	1.0 U	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	3.0 J	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	16000	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	5.4 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	1120000	200000	38000	ug/l	20	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	68.9	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B085689.D	1	09/14/12	WV	n/a	n/a	VB3521
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-4	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

(a) Sample was not preserved to a pH < 2.

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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085690.D	1	09/14/12	WV	n/a	n/a	VB3521
Run #2	B085712.D	5	09/17/12	WV	n/a	n/a	VB3522

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.24	1.0	0.20	ug/l	J
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	3.3	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	27.2	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	95.5 [a]	5.0	1.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.90	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.36	1.0	0.26	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	28.2	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	6.5	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	97%	76-127%
2037-26-5	Toluene-D8	97%	100%	86-112%
460-00-4	4-Bromofluorobenzene	99%	95%	84-120%

(a) Result is from Run# 2

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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025469.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117418.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110118.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		38-127%
2051-24-3	Decachlorobiphenyl	83%		25-137%

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:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32266.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	ND	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%		42-114%

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: SS18-MW08
Lab Sample ID: F96768-5
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	75.5 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	7.7	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	18.7	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	15.6 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	812000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	1050000	25000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [6]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	20800	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	7.6 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	4620000	1000000	190000	ug/l	100	09/14/12	09/18/12	LM	EPA 200.7 [4]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	70.8	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Instrument QC Batch: MA10150
(5) Prep QC Batch: MP23665
(6) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW08		
Lab Sample ID:	F96768-5	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	13600	2500	250	mg/l	25	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW08		
Lab Sample ID:	F96768-5F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	73.5 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	6.7	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	18.0	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	15.7 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	785000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	1020000	25000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [6]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	20800	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	7.8 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	4560000	1000000	190000	ug/l	100	09/14/12	09/18/12	LM	EPA 200.7 [4]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	70.6	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Instrument QC Batch: MA10150
(5) Prep QC Batch: MP23665
(6) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085702.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-6	**Date Sampled:**	09/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085703.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	1.0	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	9.0	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.70	1.0	0.23	ug/l	J
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	3.0	5.0	2.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025482.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117419.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110119.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		38-127%
2051-24-3	Decachlorobiphenyl	104%		25-137%

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:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32267.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	ND	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		42-114%

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: SS18-MW12
Lab Sample ID: F96768-7
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	60.4 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.6 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	20.1	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	17.0 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	666000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	106000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	597	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	5080 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	143000	50000	9500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	92.3	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW12		
Lab Sample ID:	F96768-7	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3500	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW12		
Lab Sample ID:	F96768-7F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	58.5 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.4 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	21.0	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	17.2 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	750000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.1 J	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	107000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	583	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	4990 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	4.7 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	161000	50000	9500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	89.4	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23667

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085705.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085706.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	1.2	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025483.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117420.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110120.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		38-127%
2051-24-3	Decachlorobiphenyl	97%		25-137%

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:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32254.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		42-114%

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: SS18-MW09
Lab Sample ID: F96768-9
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	175 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	4.0 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	10.7	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	27.4 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	516000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	2.9 J	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.1 J	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	141 J	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	304000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	78.7	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	5.5 J	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	11400	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	8.1 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	758000	200000	38000	ug/l	20	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	76.1	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	11.2 J	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW09		
Lab Sample ID:	F96768-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6180	400	40	mg/l	4	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW09
Lab Sample ID: F96768-9F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	51.3 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.1 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	10.3	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	27.5 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	531000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	323000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	77.7	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	4.9 J	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	11600	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	8.0 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	769000	200000	38000	ug/l	20	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	76.3	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23667

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085707.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085708.D	1	09/17/12	WV	n/a	n/a	VB3522
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025484.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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RL = Reporting Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117421.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	103%		58-120%

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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110121.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		38-127%
2051-24-3	Decachlorobiphenyl	93%		25-137%

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:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32270.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		42-114%

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: SS18-MW10
Lab Sample ID: F96768-11
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1590	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	4.4 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	16.6	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	37.3 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	512000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	3.8 J	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	3.4 J	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	1180	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	296000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	98.8	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	6470 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	5.7 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	355000	100000	19000	ug/l	10	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	104	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	16.4 J	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW10		
Lab Sample ID:	F96768-11	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	4930	400	40	mg/l	4	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW10		
Lab Sample ID:	F96768-11F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	58.5 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	2.6 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	15.4	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	19.0 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	521000	1000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	299000	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	63.3	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	6870 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	4.8 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	335000	100000	19000	ug/l	10	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	99.5	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23667

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-12	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10186.D	1	09/15/12	EG	n/a	n/a	VP411
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-12	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-12	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10207.D	1	09/15/12	EG	n/a	n/a	VP411
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	1.1	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.27	1.0	0.23	ug/l	J
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025507.D	1	09/17/12	FS	09/13/12	OP43510	SX1234
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117422.D	1	09/13/12	CP	n/a	n/a	GCD4788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		57-129%
98-08-8	aaa-Trifluorotoluene	107%		58-120%

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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110126.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		38-127%
2051-24-3	Decachlorobiphenyl	100%		25-137%

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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YY32271.D	1	09/21/12	SJL	09/13/12	OP43518	GYY1180
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.0999	0.24	0.095	mg/l	J
	TPH (> C22-C36)	0.101	0.24	0.095	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%		42-114%

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:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	301	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	2.8 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	8.7 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	30.1 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	678000	5000	500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	154 J	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	85300	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	44.6	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	5510 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	5.1 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	167000	50000	9500	ug/l	5	09/14/12	09/17/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	89.9	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10145
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23666

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW11		
Lab Sample ID:	F96768-13	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	2990	200	20	mg/l	2	09/12/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW11		
Lab Sample ID:	F96768-13F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/12/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	55.3 J	200	25	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Antimony	3.5 J	6.0	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Arsenic	6.3 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Barium	27.6 J	200	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Calcium	616000	5000	500	ug/l	5	09/14/12	09/18/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Copper	2.0 U	25	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Iron	35 U	300	35	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Magnesium	77900	5000	100	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Manganese	34.5	15	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/14/12	09/14/12	JL	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Potassium	5250 J	10000	500	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Selenium	3.2 J	10	2.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Silver	1.0 U	10	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Sodium	141000	50000	9500	ug/l	5	09/14/12	09/18/12	LM	EPA 200.7 [3]	EPA 200.7 [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Vanadium	78.7	50	1.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/14/12	09/14/12	LM	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA10136
(2) Instrument QC Batch: MA10140
(3) Instrument QC Batch: MA10150
(4) Prep QC Batch: MP23665
(5) Prep QC Batch: MP23667

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96768-14	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P10187.D	1	09/15/12	EG	n/a	n/a	VP411
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96768-14	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96768-14	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Associated BS recovery outside 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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

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Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09112012-01
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Coder ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW07	SS18-MW07	9/10/2012	1600	-	N	1	WG	15	X	X	X	X	X	X	X	X				1
2	Trip Blank				-	TB	1	WQ	2	X											1
					-																
					-																
					-																
					-																
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					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JHMoore	9/11/12	1400	1. FX		09:30
2. FX			2. Connie Alsup	9-12-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989 3477 5178
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.6 2.8 3.0 2.4 2.6 2.8 2.6

5.1 5

F96768: Chain of Custody
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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 911 2012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS18-MW15	SS18-MW15	9/10/2012	1340	-	N	1	WG	15	X	X	X	X	X	X	X	X				2
4	Trip Blank				-	TB	1	WQ	2	X											2
					-																
					-																
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					-																
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					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/11/12	1400	FX		09:30
2.	FX			[signature]	9-12-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989347747789

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 9112012-03
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Coder ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
5	SS18-MW08	SS18-MW08	9/10/2012	1530	-	N	1	WG	15	X	X	X	X	X	X	X	X				3
6	Trip Blank				-	TB	1	WQ	2	X											3
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/11/12	1400	FX		09:30
2.	FX			J. Coppe (ALS E)	9-12-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798934774995
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 9112012-05
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Coder ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW12	SS18-MW12	9/11/12	0830	-	N	1	WG	15	X	X	X	X	X	X	X	X				5
3	Trip Blank				-	TB	1	WQ	2	X											5
					-																
					-																
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					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JT Moore	9/11/12	1400	FX		09:30
2.	FX			Leonne (NVSE)	9-12-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798934774734
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 9112012-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
SS18-MW09	SS18-MW09	9/11/12	0830	-	N	1	WG	14	X	X	X	X	X	X	X	X				6
Trip Blank				-	TB	1	WQ	2	X											6
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	9/11/12	1400	1. FX		09:30
2. FX			2. J. Cosme (AISE)	9-12-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798934774260

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 9112012-07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW10	SS18-MW10	9/11/12	1040	-	N	1	WG	15	X	X	X	X	X	X	X	X				7
2	Trip Blank				-	TB	1	WQ	2	X											7
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/11/12	1400	FX		09:30
2.	FX			[signature] (AISE)	9-12-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798934774907

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96768

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NV Project No: 11-0020.01.030

COC Number(1): 9112012-08

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS18-MW11	SS18-MW11	9/11/12	1030	-	N	1	WG	15	X	X	X	X	X	X	X	X				8
4	Trip Blank				-	TB	1	WQ	2	X											8
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/11/12	1400	FX		09:30
2.	FX			[signature] (AL/FX)	9-12-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798934774399

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96768 CLIENT: NATIONVIEW PROJECT: SS-18 ACM

DATE/TIME RECEIVED: 9-12-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 7

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7989 3477 5178

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 7
- [ ] 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 2.4 2.6 2.0 2.2 2.4 2.2
- [ ] CORRECTED TEMPS: 2.6 2.8 3.0 2.4 2.6 2.8 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] 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: RECEIVED ONLY 1 AMBER (8082) FOR SAMPLE #9

TECHNICIAN SIGNATURE/DATE [signature] 9-12-12 REVIEWER SIGNATURE/DATE [signature] 09-12-12

NF 12/10

receipt confirmation 122910.xls

5.1

5

F96768: Chain of Custody

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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

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-MB	B085674.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-MB	B085674.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.74	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-MB	B085674.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-MB	P10185.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-MB	P10185.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-MB	P10185.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-MB	B085701.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-MB	B085701.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.69	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-MB	B085701.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-BS	B085673.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	150	120	59-134
107-02-8	Acrolein	125	144	115	33-157
107-13-1	Acrylonitrile	125	121	97	62-124
71-43-2	Benzene	25	28.5	114	83-124
108-86-1	Bromobenzene	25	25.0	100	83-115
74-97-5	Bromochloromethane	25	23.7	95	78-112
75-27-4	Bromodichloromethane	25	26.9	108	76-116
75-25-2	Bromoform	25	24.0	96	68-128
104-51-8	n-Butylbenzene	25	27.9	112	84-124
135-98-8	sec-Butylbenzene	25	29.3	117	86-127
98-06-6	tert-Butylbenzene	25	28.1	112	83-126
108-90-7	Chlorobenzene	25	28.3	113	87-115
75-00-3	Chloroethane	25	27.7	111	54-166
67-66-3	Chloroform	25	25.6	102	85-123
95-49-8	o-Chlorotoluene	25	28.2	113	84-121
106-43-4	p-Chlorotoluene	25	28.1	112	84-120
110-75-8	2-Chloroethyl vinyl ether	125	120	96	63-125
75-15-0	Carbon disulfide	25	26.7	107	67-147
56-23-5	Carbon tetrachloride	25	28.5	114	74-139
75-34-3	1,1-Dichloroethane	25	27.8	111	82-127
75-35-4	1,1-Dichloroethylene	25	30.3	121	75-133
563-58-6	1,1-Dichloropropene	25	29.8	119	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	22.6	90	61-118
106-93-4	1,2-Dibromoethane	25	25.7	103	80-115
107-06-2	1,2-Dichloroethane	25	25.8	103	76-122
78-87-5	1,2-Dichloropropane	25	27.4	110	81-120
142-28-9	1,3-Dichloropropane	25	25.8	103	81-113
594-20-7	2,2-Dichloropropane	25	29.5	118	77-138
124-48-1	Dibromochloromethane	25	26.4	106	74-116
75-71-8	Dichlorodifluoromethane	25	30.0	120	34-158
156-59-2	cis-1,2-Dichloroethylene	25	27.4	110	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.6	106	83-119
541-73-1	m-Dichlorobenzene	25	27.5	110	86-115
95-50-1	o-Dichlorobenzene	25	27.2	109	85-115
106-46-7	p-Dichlorobenzene	25	25.3	101	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.4	114	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-BS	B085673.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	27.1	108	87-123
100-41-4	Ethylbenzene	25	27.4	110	87-118
591-78-6	2-Hexanone	125	122	98	58-125
87-68-3	Hexachlorobutadiene	25	27.5	110	71-133
98-82-8	Isopropylbenzene	25	28.8	115	87-131
99-87-6	p-Isopropyltoluene	25	27.8	111	83-125
108-10-1	4-Methyl-2-pentanone	125	117	94	62-125
74-83-9	Methyl bromide	25	29.0	116	55-151
74-87-3	Methyl chloride	25	27.1	108	55-173
74-95-3	Methylene bromide	25	25.3	101	81-116
75-09-2	Methylene chloride	25	30.7	123	69-125
78-93-3	Methyl ethyl ketone	125	124	99	61-127
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	75-116
91-20-3	Naphthalene	25	26.9	108	59-125
103-65-1	n-Propylbenzene	25	28.3	113	86-125
100-42-5	Styrene	25	27.8	111	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	27.0	108	81-119
71-55-6	1,1,1-Trichloroethane	25	27.8	111	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	71-120
79-00-5	1,1,2-Trichloroethane	25	25.2	101	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.8	107	64-126
96-18-4	1,2,3-Trichloropropane	25	22.8	91	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.9	108	68-123
95-63-6	1,2,4-Trimethylbenzene	25	26.0	104	82-120
108-67-8	1,3,5-Trimethylbenzene	25	26.3	105	83-123
127-18-4	Tetrachloroethylene	25	27.6	110	80-131
108-88-3	Toluene	25	27.2	109	86-116
79-01-6	Trichloroethylene	25	28.2	113	85-124
75-69-4	Trichlorofluoromethane	25	30.6	122	66-156
75-01-4	Vinyl chloride	25	30.5	122	57-153
108-05-4	Vinyl Acetate	125	141	113	38-159
	m,p-Xylene	50	56.8	114	86-121
95-47-6	o-Xylene	25	29.1	116	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3521-BS	B085673.D	1	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	95%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-BS	P10183.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	183	146*	59-134
107-02-8	Acrolein	125	135	108	33-157
107-13-1	Acrylonitrile	125	123	98	62-124
71-43-2	Benzene	25	28.8	115	83-124
108-86-1	Bromobenzene	25	25.9	104	83-115
74-97-5	Bromochloromethane	25	23.4	94	78-112
75-27-4	Bromodichloromethane	25	27.5	110	76-116
75-25-2	Bromoform	25	24.2	97	68-128
104-51-8	n-Butylbenzene	25	27.8	111	84-124
135-98-8	sec-Butylbenzene	25	28.0	112	86-127
98-06-6	tert-Butylbenzene	25	30.1	120	83-126
108-90-7	Chlorobenzene	25	28.4	114	87-115
75-00-3	Chloroethane	25	26.1	104	54-166
67-66-3	Chloroform	25	27.0	108	85-123
95-49-8	o-Chlorotoluene	25	28.0	112	84-121
106-43-4	p-Chlorotoluene	25	29.4	118	84-120
110-75-8	2-Chloroethyl vinyl ether	125	115	92	63-125
75-15-0	Carbon disulfide	25	27.5	110	67-147
56-23-5	Carbon tetrachloride	25	27.8	111	74-139
75-34-3	1,1-Dichloroethane	25	28.2	113	82-127
75-35-4	1,1-Dichloroethylene	25	32.4	130	75-133
563-58-6	1,1-Dichloropropene	25	30.4	122	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	25.2	101	61-118
106-93-4	1,2-Dibromoethane	25	24.9	100	80-115
107-06-2	1,2-Dichloroethane	25	27.4	110	76-122
78-87-5	1,2-Dichloropropane	25	27.8	111	81-120
142-28-9	1,3-Dichloropropane	25	25.7	103	81-113
594-20-7	2,2-Dichloropropane	25	29.9	120	77-138
124-48-1	Dibromochloromethane	25	25.5	102	74-116
75-71-8	Dichlorodifluoromethane	25	23.4	94	34-158
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.9	100	83-119
541-73-1	m-Dichlorobenzene	25	28.1	112	86-115
95-50-1	o-Dichlorobenzene	25	27.4	110	85-115
106-46-7	p-Dichlorobenzene	25	25.1	100	87-113
156-60-5	trans-1,2-Dichloroethylene	25	29.4	118	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-BS	P10183.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	87-123
100-41-4	Ethylbenzene	25	27.3	109	87-118
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	25.2	101	71-133
98-82-8	Isopropylbenzene	25	27.5	110	87-131
99-87-6	p-Isopropyltoluene	25	29.3	117	83-125
108-10-1	4-Methyl-2-pentanone	125	119	95	62-125
74-83-9	Methyl bromide	25	24.6	98	55-151
74-87-3	Methyl chloride	25	23.2	93	55-173
74-95-3	Methylene bromide	25	25.8	103	81-116
75-09-2	Methylene chloride	25	27.8	111	69-125
78-93-3	Methyl ethyl ketone	125	138	110	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.1	92	75-116
91-20-3	Naphthalene	25	26.0	104	59-125
103-65-1	n-Propylbenzene	25	30.5	122	86-125
100-42-5	Styrene	25	27.1	108	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	26.3	105	81-119
71-55-6	1,1,1-Trichloroethane	25	29.1	116	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	71-120
79-00-5	1,1,2-Trichloroethane	25	24.3	97	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.1	104	64-126
96-18-4	1,2,3-Trichloropropane	25	24.8	99	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.8	107	68-123
95-63-6	1,2,4-Trimethylbenzene	25	26.2	105	82-120
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	83-123
127-18-4	Tetrachloroethylene	25	27.4	110	80-131
108-88-3	Toluene	25	28.0	112	86-116
79-01-6	Trichloroethylene	25	29.5	118	85-124
75-69-4	Trichlorofluoromethane	25	26.3	105	66-156
75-01-4	Vinyl chloride	25	28.5	114	57-153
108-05-4	Vinyl Acetate	125	139	111	38-159
	m,p-Xylene	50	57.6	115	86-121
95-47-6	o-Xylene	25	28.8	115	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP411-BS	P10183.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-BS	B085700.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	184	147*	59-134
107-02-8	Acrolein	125	123	98	33-157
107-13-1	Acrylonitrile	125	126	101	62-124
71-43-2	Benzene	25	29.7	119	83-124
108-86-1	Bromobenzene	25	25.8	103	83-115
74-97-5	Bromochloromethane	25	24.5	98	78-112
75-27-4	Bromodichloromethane	25	27.0	108	76-116
75-25-2	Bromoform	25	24.7	99	68-128
104-51-8	n-Butylbenzene	25	28.1	112	84-124
135-98-8	sec-Butylbenzene	25	30.4	122	86-127
98-06-6	tert-Butylbenzene	25	28.8	115	83-126
108-90-7	Chlorobenzene	25	28.5	114	87-115
75-00-3	Chloroethane	25	26.4	106	54-166
67-66-3	Chloroform	25	26.0	104	85-123
95-49-8	o-Chlorotoluene	25	28.4	114	84-121
106-43-4	p-Chlorotoluene	25	28.6	114	84-120
110-75-8	2-Chloroethyl vinyl ether	125	124	99	63-125
75-15-0	Carbon disulfide	25	27.7	111	67-147
56-23-5	Carbon tetrachloride	25	29.2	117	74-139
75-34-3	1,1-Dichloroethane	25	28.3	113	82-127
75-35-4	1,1-Dichloroethylene	25	32.1	128	75-133
563-58-6	1,1-Dichloropropene	25	30.1	120	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.2	93	61-118
106-93-4	1,2-Dibromoethane	25	26.1	104	80-115
107-06-2	1,2-Dichloroethane	25	26.7	107	76-122
78-87-5	1,2-Dichloropropane	25	28.3	113	81-120
142-28-9	1,3-Dichloropropane	25	25.7	103	81-113
594-20-7	2,2-Dichloropropane	25	30.8	123	77-138
124-48-1	Dibromochloromethane	25	27.0	108	74-116
75-71-8	Dichlorodifluoromethane	25	27.4	110	34-158
156-59-2	cis-1,2-Dichloroethylene	25	28.3	113	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.8	107	83-119
541-73-1	m-Dichlorobenzene	25	28.4	114	86-115
95-50-1	o-Dichlorobenzene	25	28.2	113	85-115
106-46-7	p-Dichlorobenzene	25	25.8	103	87-113
156-60-5	trans-1,2-Dichloroethylene	25	29.4	118	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-BS	B085700.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	87-123
100-41-4	Ethylbenzene	25	28.2	113	87-118
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	29.0	116	71-133
98-82-8	Isopropylbenzene	25	29.6	118	87-131
99-87-6	p-Isopropyltoluene	25	29.0	116	83-125
108-10-1	4-Methyl-2-pentanone	125	125	100	62-125
74-83-9	Methyl bromide	25	27.5	110	55-151
74-87-3	Methyl chloride	25	25.2	101	55-173
74-95-3	Methylene bromide	25	25.7	103	81-116
75-09-2	Methylene chloride	25	31.0	124	69-125
78-93-3	Methyl ethyl ketone	125	135	108	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.4	94	75-116
91-20-3	Naphthalene	25	27.8	111	59-125
103-65-1	n-Propylbenzene	25	29.7	119	86-125
100-42-5	Styrene	25	28.4	114	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	27.7	111	81-119
71-55-6	1,1,1-Trichloroethane	25	27.9	112	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	71-120
79-00-5	1,1,2-Trichloroethane	25	26.0	104	80-114
87-61-6	1,2,3-Trichlorobenzene	25	28.3	113	64-126
96-18-4	1,2,3-Trichloropropane	25	24.4	98	77-115
120-82-1	1,2,4-Trichlorobenzene	25	27.4	110	68-123
95-63-6	1,2,4-Trimethylbenzene	25	26.8	107	82-120
108-67-8	1,3,5-Trimethylbenzene	25	26.6	106	83-123
127-18-4	Tetrachloroethylene	25	28.2	113	80-131
108-88-3	Toluene	25	28.0	112	86-116
79-01-6	Trichloroethylene	25	28.7	115	85-124
75-69-4	Trichlorofluoromethane	25	31.0	124	66-156
75-01-4	Vinyl chloride	25	28.9	116	57-153
108-05-4	Vinyl Acetate	125	142	114	38-159
	m,p-Xylene	50	57.9	116	86-121
95-47-6	o-Xylene	25	29.7	119	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3522-BS	B085700.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	93%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96611-2MS	B085681.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2MSD	B085682.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2 [a]	B085675.D	20	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	F96611-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	538		2500	2970	97	3240	108	9	59-134/14
107-02-8	Acrolein	500 U		2500	2500	100	2670	107	7	33-157/21
107-13-1	Acrylonitrile	200 U		2500	2380	95	2560	102	7	62-124/13
71-43-2	Benzene	20 U		500	561	112	551	110	2	83-124/11
108-86-1	Bromobenzene	20 U		500	491	98	490	98	0	83-115/10
74-97-5	Bromochloromethane	20 U		500	468	94	467	93	0	78-112/10
75-27-4	Bromodichloromethane	20 U		500	525	105	523	105	0	76-116/10
75-25-2	Bromoform	20 U		500	468	94	470	94	0	68-128/11
104-51-8	n-Butylbenzene	20 U		500	547	109	536	107	2	84-124/10
135-98-8	sec-Butylbenzene	20 U		500	578	116	571	114	1	86-127/10
98-06-6	tert-Butylbenzene	20 U		500	554	111	543	109	2	83-126/10
108-90-7	Chlorobenzene	20 U		500	558	112	551	110	1	87-115/9
75-00-3	Chloroethane	40 U		500	593	119	518	104	14	54-166/20
67-66-3	Chloroform	20 U		500	508	102	506	101	0	85-123/10
95-49-8	o-Chlorotoluene	20 U		500	548	110	538	108	2	84-121/10
106-43-4	p-Chlorotoluene	20 U		500	552	110	547	109	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	100 U		2500	2460	98	2510	100	2	63-125/24
75-15-0	Carbon disulfide	40 U		500	503	101	504	101	0	67-147/12
56-23-5	Carbon tetrachloride	20 U		500	556	111	548	110	1	74-139/13
75-34-3	1,1-Dichloroethane	20 U		500	554	111	538	108	3	82-127/10
75-35-4	1,1-Dichloroethylene	20 U		500	582	116	572	114	2	75-133/13
563-58-6	1,1-Dichloropropene	20 U		500	581	116	553	111	5	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	40 U		500	438	88	465	93	6	61-118/15
106-93-4	1,2-Dibromoethane	20 U		500	501	100	498	100	1	80-115/10
107-06-2	1,2-Dichloroethane	20 U		500	511	102	514	103	1	76-122/11
78-87-5	1,2-Dichloropropane	20 U		500	553	111	551	110	0	81-120/11
142-28-9	1,3-Dichloropropane	20 U		500	501	100	495	99	1	81-113/11
594-20-7	2,2-Dichloropropane	20 U		500	563	113	562	112	0	77-138/12
124-48-1	Dibromochloromethane	20 U		500	515	103	514	103	0	74-116/11
75-71-8	Dichlorodifluoromethane	40 U		500	537	107	578	116	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	12.7	I	500	546	107	546	107	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	20 U		500	503	101	515	103	2	83-119/10
541-73-1	m-Dichlorobenzene	20 U		500	546	109	538	108	1	86-115/9
95-50-1	o-Dichlorobenzene	20 U		500	533	107	541	108	1	85-115/9
106-46-7	p-Dichlorobenzene	20 U		500	501	100	493	99	2	87-113/10
156-60-5	trans-1,2-Dichloroethylene	20 U		500	560	112	556	111	1	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96611-2MS	B085681.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2MSD	B085682.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2 [a]	B085675.D	20	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Compound	F96611-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	20 U		500	515	103	515	103	0	87-123/10
100-41-4	Ethylbenzene	20 U		500	545	109	528	106	3	87-118/10
591-78-6	2-Hexanone	200 U		2500	2600	104	2650	106	2	58-125/14
87-68-3	Hexachlorobutadiene	40 U		500	560	112	543	109	3	71-133/12
98-82-8	Isopropylbenzene	20 U		500	566	113	548	110	3	87-131/10
99-87-6	p-Isopropyltoluene	20 U		500	551	110	543	109	1	83-125/9
108-10-1	4-Methyl-2-pentanone	100 U		2500	2730	109	2760	110	1	62-125/13
74-83-9	Methyl bromide	40 U		500	612	122	566	113	8	55-151/21
74-87-3	Methyl chloride	40 U		500	578	116	524	105	10	55-173/22
74-95-3	Methylene bromide	40 U		500	495	99	509	102	3	81-116/10
75-09-2	Methylene chloride	100 U		500	605	121	591	118	2	69-125/11
78-93-3	Methyl ethyl ketone	151		2500	2690	102	2840	108	5	61-127/13
1634-04-4	Methyl Tert Butyl Ether	20 U		500	423	85	439	88	4	75-116/10
91-20-3	Naphthalene	100 U		500	530	106	559	112	5	59-125/15
103-65-1	n-Propylbenzene	20 U		500	562	112	562	112	0	86-125/10
100-42-5	Styrene	20 U		500	555	111	543	109	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	20 U		500	531	106	520	104	2	81-119/10
71-55-6	1,1,1-Trichloroethane	20 U		500	521	104	510	102	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	20 U		500	459	92	476	95	4	71-120/11
79-00-5	1,1,2-Trichloroethane	20 U		500	491	98	497	99	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	20 U		500	538	108	563	113	5	64-126/16
96-18-4	1,2,3-Trichloropropane	40 U		500	458	92	471	94	3	77-115/12
120-82-1	1,2,4-Trichlorobenzene	20 U		500	530	106	536	107	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	40 U		500	511	102	507	101	1	82-120/10
108-67-8	1,3,5-Trimethylbenzene	40 U		500	509	102	499	100	2	83-123/10
127-18-4	Tetrachloroethylene	20 U		500	545	109	529	106	3	80-131/12
108-88-3	Toluene	20 U		500	532	106	518	104	3	86-116/10
79-01-6	Trichloroethylene	20 U		500	546	109	538	108	1	85-124/10
75-69-4	Trichlorofluoromethane	40 U		500	644	129	592	118	8	66-156/15
75-01-4	Vinyl chloride	631		500	1210	116	1130	100	7	57-153/22
108-05-4	Vinyl Acetate	200 U		2500	2880	115	2900	116	1	38-159/11
	m,p-Xylene	40 U		1000	1140	114	1080	108	5	86-121/10
95-47-6	o-Xylene	20 U		500	590	118	571	114	3	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96611-2MS	B085681.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2MSD	B085682.D	20	09/14/12	WV	n/a	n/a	VB3521
F96611-2 [a]	B085675.D	20	09/14/12	WV	n/a	n/a	VB3521

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-1, F96768-2, F96768-3, F96768-4, F96768-5

CAS No.	Surrogate Recoveries	MS	MSD	F96611-2	Limits
1868-53-7	Dibromofluoromethane	98%	101%	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	99%	76-127%
2037-26-5	Toluene-D8	97%	96%	98%	86-112%
460-00-4	4-Bromofluorobenzene	93%	95%	100%	84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96793-2MS	P10195.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2MSD	P10196.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2	P10190.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	F96793-2 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	115	92	128	102	11	59-134/14
107-02-8	Acrolein	25 U		125	130	104	115	92	12	33-157/21
107-13-1	Acrylonitrile	10 U		125	112	90	118	94	5	62-124/13
71-43-2	Benzene	5.4		25	32.4	108	31.6	105	2	83-124/11
108-86-1	Bromobenzene	1.0 U		25	26.0	104	26.7	107	3	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	23.1	92	23.1	92	0	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	26.6	106	24.6	98	8	76-116/10
75-25-2	Bromoform	1.0 U		25	20.9	84	19.8	79	5	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	28.7	115	28.0	112	2	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	29.0	116	28.6	114	1	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	31.1	124	30.2	121	3	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	28.9	116*	27.8	111	4	87-115/9
75-00-3	Chloroethane	2.0 U		25	26.8	107	25.4	102	5	54-166/20
67-66-3	Chloroform	1.0 U		25	26.7	107	25.8	103	3	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	28.7	115	28.0	112	2	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	30.3	121*	28.7	115	5	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	22.8	91	21.2	85	7	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	27.9	112	24.9	100	11	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	28.4	114	27.4	110	4	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	32.3	129	30.6	122	5	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	29.7	119	29.0	116	2	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	23.5	94	26.8	107	13	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	25.3	101	24.5	98	3	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	26.9	108	26.3	105	2	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	27.1	108	26.8	107	1	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	26.0	104	25.8	103	1	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	30.8	123	28.8	115	7	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	24.1	96	23.0	92	5	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	20.6	82	21.0	84	2	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	27.7	111	27.3	109	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	22.0	88	19.7	79*	11*	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	28.6	114	27.9	112	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	28.5	114	28.0	112	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	26.2	105	25.6	102	2	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	30.3	121	28.1	112	8	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96793-2MS	P10195.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2MSD	P10196.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2	P10190.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Compound	F96793-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	23.2	93	22.1	88	5	87-123/10
100-41-4	Ethylbenzene	0.74	I	25	29.0	113	27.9	109	4	87-118/10
591-78-6	2-Hexanone	10 U		125	112	90	124	99	10	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	24.8	99	25.1	100	1	71-133/12
98-82-8	Isopropylbenzene	0.85	I	25	28.8	112	27.7	107	4	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	30.0	120	28.9	116	4	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	117	94	126	101	7	62-125/13
74-83-9	Methyl bromide	2.0 U		25	23.6	94	22.7	91	4	55-151/21
74-87-3	Methyl chloride	2.0 U		25	21.9	88	22.4	90	2	55-173/22
74-95-3	Methylene bromide	2.0 U		25	25.5	102	24.0	96	6	81-116/10
75-09-2	Methylene chloride	5.0 U		25	28.2	113	27.6	110	2	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	109	87	122	98	11	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	23.2	93	23.0	92	1	75-116/10
91-20-3	Naphthalene	6.6		25	28.8	89	33.4	107	15	59-125/15
103-65-1	n-Propylbenzene	0.75	I	25	31.3	122	31.0	121	1	86-125/10
100-42-5	Styrene	1.0 U		25	24.5	98	20.3	81	19*	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	27.0	108	24.8	99	8	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	28.8	115	27.7	111	4	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	24.8	99	24.9	100	0	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	25.6	102	24.8	99	3	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	23.8	95	26.5	106	11	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	23.6	94	25.0	100	6	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	25.4	102	26.7	107	5	68-123/11
95-63-6	1,2,4-Trimethylbenzene	3.2		25	29.4	105	26.7	94	10	82-120/10
108-67-8	1,3,5-Trimethylbenzene	0.23	I	25	27.8	110	26.0	103	7	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	28.2	113	26.1	104	8	80-131/12
108-88-3	Toluene	1.0 U		25	28.1	112	27.1	108	4	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	29.8	119	28.0	112	6	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	25.9	104	24.3	97	6	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	26.4	106	27.4	110	4	57-153/22
108-05-4	Vinyl Acetate	10 U		125	139	111	140	112	1	38-159/11
	m,p-Xylene	2.0 U		50	58.7	117	56.2	112	4	86-121/10
95-47-6	o-Xylene	1.0 U		25	29.5	118	28.2	113	5	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96793-2MS	P10195.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2MSD	P10196.D	1	09/15/12	EG	n/a	n/a	VP411
F96793-2	P10190.D	1	09/15/12	EG	n/a	n/a	VP411

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-12, F96768-13, F96768-14

CAS No.	Surrogate Recoveries	MS	MSD	F96793-2	Limits
1868-53-7	Dibromofluoromethane	102%	101%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	105%	76-127%
2037-26-5	Toluene-D8	102%	102%	103%	86-112%
460-00-4	4-Bromofluorobenzene	102%	101%	101%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96643-7MS	B085709.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7MSD	B085710.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7	B085711.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	F96643-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	121	97	120	96	1	59-134/14
107-02-8	Acrolein	ND		125	122	98	117	94	4	33-157/21
107-13-1	Acrylonitrile	ND		125	133	106	132	106	1	62-124/13
71-43-2	Benzene	ND		25	25.3	101	23.3	93	8	83-124/11
108-86-1	Bromobenzene	ND		25	23.1	92	22.0	88	5	83-115/10
74-97-5	Bromochloromethane	ND		25	21.2	85	19.7	79	7	78-112/10
75-27-4	Bromodichloromethane	ND		25	23.4	94	21.5	86	8	76-116/10
75-25-2	Bromoform	ND		25	22.3	89	21.3	85	5	68-128/11
104-51-8	n-Butylbenzene	ND		25	25.9	104	24.9	100	4	84-124/10
135-98-8	sec-Butylbenzene	ND		25	27.2	109	25.8	103	5	86-127/10
98-06-6	tert-Butylbenzene	ND		25	25.4	102	27.5	110	8	83-126/10
108-90-7	Chlorobenzene	ND		25	25.8	103	24.1	96	7	87-115/9
75-00-3	Chloroethane	ND		25	22.2	89	20.1	80	10	54-166/20
67-66-3	Chloroform	0.26	J	25	22.7	90	20.9	83*	8	85-123/10
95-49-8	o-Chlorotoluene	ND		25	25.3	101	24.4	98	4	84-121/10
106-43-4	p-Chlorotoluene	ND		25	25.8	103	24.6	98	5	84-120/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	ND		25	24.3	97	22.7	91	7	67-147/12
56-23-5	Carbon tetrachloride	ND		25	25.5	102	24.3	97	5	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	25.4	102	23.2	93	9	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	26.7	107	25.7	103	4	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	26.3	105	23.9	96	10	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.0	84	21.3	85	1	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	22.8	91	21.9	88	4	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	22.8	91	21.5	86	6	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	24.6	98	22.6	90	8	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	22.9	92	22.1	88	4	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	26.1	104	23.8	95	9	77-138/12
124-48-1	Dibromochloromethane	ND		25	23.6	94	22.8	91	3	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	12.9	52	13.8	55	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.5	98	23.1	92	6	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.3	89	20.7	83	7	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	26.2	105	24.6	98	6	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	26.0	104	24.5	98	6	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	23.7	95	22.5	90	5	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.3	101	23.5	94	7	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96643-7MS	B085709.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7MSD	B085710.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7	B085711.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Compound	F96643-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.5	94	22.6	90	4	87-123/10
100-41-4	Ethylbenzene	ND		25	24.9	100	23.3	93	7	87-118/10
591-78-6	2-Hexanone	ND		125	113	90	111	89	2	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	25.3	101	24.5	98	3	71-133/12
98-82-8	Isopropylbenzene	ND		25	25.6	102	24.8	99	3	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	25.9	104	24.8	99	4	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	115	92	111	89	4	62-125/13
74-83-9	Methyl bromide	ND		25	23.6	94	21.0	84	12	55-151/21
74-87-3	Methyl chloride	ND		25	18.2	73	16.6	66	9	55-173/22
74-95-3	Methylene bromide	ND		25	22.3	89	20.8	83	7	81-116/10
75-09-2	Methylene chloride	ND		25	28.6	114	26.3	105	8	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	123	98	118	94	4	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	19.4	78	18.7	75	4	75-116/10
91-20-3	Naphthalene	ND		25	24.7	99	25.0	100	1	59-125/15
103-65-1	n-Propylbenzene	ND		25	26.3	105	25.3	101	4	86-125/10
100-42-5	Styrene	ND		25	25.2	101	22.6	90	11	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.8	99	23.2	93	7	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	24.0	96	22.5	90	6	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.0	88	21.6	86	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	22.9	92	21.4	86	7	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.4	102	25.5	102	0	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	21.6	86	21.7	87	0	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	25.2	101	24.4	98	3	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.9	96	22.0	88	8	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.7	95	22.3	89	6	83-123/10
127-18-4	Tetrachloroethylene	ND		25	25.5	102	23.5	94	8	80-131/12
108-88-3	Toluene	ND		25	24.3	97	22.9	92	6	86-116/10
79-01-6	Trichloroethylene	ND		25	24.8	99	22.6	90	9	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	28.8	115	26.0	104	10	66-156/15
75-01-4	Vinyl chloride	ND		25	22.5	90	20.7	83	8	57-153/22
108-05-4	Vinyl Acetate	ND		125	130	104	123	98	6	38-159/11
	m,p-Xylene	ND		50	51.7	103	47.7	95	8	86-121/10
95-47-6	o-Xylene	ND		25	26.9	108	24.8	99	8	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96643-7MS	B085709.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7MSD	B085710.D	1	09/17/12	WV	n/a	n/a	VB3522
F96643-7	B085711.D	1	09/17/12	WV	n/a	n/a	VB3522

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96768-5, F96768-6, F96768-7, F96768-8, F96768-9, F96768-10, F96768-11

CAS No.	Surrogate Recoveries	MS	MSD	F96643-7	Limits
1868-53-7	Dibromofluoromethane	99%	97%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	95%	76-127%
2037-26-5	Toluene-D8	98%	98%	101%	86-112%
460-00-4	4-Bromofluorobenzene	92%	95%	98%	84-120%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025461.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025461.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025461.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	71%	33-118%
4165-60-0	Nitrobenzene-d5	66%	42-108%
321-60-8	2-Fluorobiphenyl	64%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025506.D	1	09/17/12	FS	09/13/12	OP43510	SX1234

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

7.1.2

7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025506.D	1	09/17/12	FS	09/13/12	OP43510	SX1234

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MB	X025506.D	1	09/17/12	FS	09/13/12	OP43510	SX1234

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	68%	40-106%
1718-51-0	Terphenyl-d14	85%	39-121%

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-BS	X025460.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	51.5	52*	10-50
95-57-8	2-Chlorophenol	50	35.2	70	44-103
59-50-7	4-Chloro-3-methyl phenol	50	39.4	79	53-105
120-83-2	2,4-Dichlorophenol	50	39.0	78	53-108
105-67-9	2,4-Dimethylphenol	50	32.7	65	37-91
51-28-5	2,4-Dinitrophenol	100	87.8	88	37-111
534-52-1	4,6-Dinitro-o-cresol	100	94.0	94	62-115
95-48-7	2-Methylphenol	50	30.2	60	35-91
	3&4-Methylphenol	100	58.4	58	32-85
88-75-5	2-Nitrophenol	50	38.4	77	49-111
100-02-7	4-Nitrophenol	100	40.5	41	13-55
87-86-5	Pentachlorophenol	100	97.3	97	57-118
108-95-2	Phenol	50	16.2	32	13-54
95-95-4	2,4,5-Trichlorophenol	50	41.7	83	59-106
88-06-2	2,4,6-Trichlorophenol	50	40.6	81	58-107
83-32-9	Acenaphthene	50	40.1	80	58-106
208-96-8	Acenaphthylene	50	39.7	79	58-105
62-53-3	Aniline	50	36.0	72	43-98
120-12-7	Anthracene	50	41.4	83	65-108
92-87-5	Benzidine	50	34.3	69	15-73
56-55-3	Benzo(a)anthracene	50	42.4	85	63-111
50-32-8	Benzo(a)pyrene	50	39.9	80	62-106
205-99-2	Benzo(b)fluoranthene	50	43.8	88	63-109
191-24-2	Benzo(g,h,i)perylene	50	43.2	86	61-111
207-08-9	Benzo(k)fluoranthene	50	42.9	86	64-111
101-55-3	4-Bromophenyl phenyl ether	50	41.4	83	64-107
85-68-7	Butyl benzyl phthalate	50	43.4	87	59-114
100-51-6	Benzyl Alcohol	50	34.0	68	34-98
91-58-7	2-Chloronaphthalene	50	38.1	76	54-105
106-47-8	4-Chloroaniline	50	40.3	81	53-103
86-74-8	Carbazole	50	42.2	84	66-109
218-01-9	Chrysene	50	42.9	86	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	37.2	74	48-101
111-44-4	bis(2-Chloroethyl)ether	50	36.2	72	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	34.8	70	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	40.5	81	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-BS	X025460.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	34.4	69	41-102
122-66-7	1,2-Diphenylhydrazine	50	41.0	82	61-110
541-73-1	1,3-Dichlorobenzene	50	32.5	65	38-100
106-46-7	1,4-Dichlorobenzene	50	33.1	66	40-100
121-14-2	2,4-Dinitrotoluene	50	41.3	83	60-109
606-20-2	2,6-Dinitrotoluene	50	41.7	83	58-104
91-94-1	3,3'-Dichlorobenzidine	50	40.0	80	57-105
53-70-3	Dibenzo(a,h)anthracene	50	41.9	84	62-112
132-64-9	Dibenzofuran	50	40.6	81	61-108
84-74-2	Di-n-butyl phthalate	50	41.5	83	62-109
117-84-0	Di-n-octyl phthalate	50	42.8	86	60-120
84-66-2	Diethyl phthalate	50	41.7	83	62-109
131-11-3	Dimethyl phthalate	50	41.2	82	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.6	85	59-116
206-44-0	Fluoranthene	50	41.1	82	65-114
86-73-7	Fluorene	50	41.1	82	61-106
118-74-1	Hexachlorobenzene	50	41.4	83	62-107
87-68-3	Hexachlorobutadiene	50	33.7	67	38-107
77-47-4	Hexachlorocyclopentadiene	50	39.5	79	19-84
67-72-1	Hexachloroethane	50	32.9	66	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.7	85	61-113
78-59-1	Isophorone	50	31.8	64	56-111
90-12-0	1-Methylnaphthalene	50	37.9	76	52-102
91-57-6	2-Methylnaphthalene	50	37.6	75	56-112
88-74-4	2-Nitroaniline	50	42.3	85	60-109
99-09-2	3-Nitroaniline	50	40.2	80	52-107
100-01-6	4-Nitroaniline	50	42.6	85	59-111
91-20-3	Naphthalene	50	36.0	72	50-104
98-95-3	Nitrobenzene	50	36.6	73	52-105
62-75-9	N-Nitrosodimethylamine	50	23.3	47	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	40.0	80	51-104
86-30-6	N-Nitrosodiphenylamine	50	42.2	84	57-110
85-01-8	Phenanthrene	50	42.3	85	65-108
129-00-0	Pyrene	50	43.3	87	60-113
110-86-1	Pyridine	50	21.0	42	15-67
120-82-1	1,2,4-Trichlorobenzene	50	34.3	69	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-BS	X025460.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	71%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	88%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MS	X025465.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
OP43510-MSD	X025466.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
F96766-29	X025464.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	F96766-29 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	48 U		192	154	80*	146	76*	5	10-50/40
95-57-8	2-Chlorophenol	4.8 U		96.2	71.1	74	64.6	67	10	44-103/29
59-50-7	4-Chloro-3-methyl phenol	4.8 U		96.2	86.3	90	86.4	90	0	53-105/24
120-83-2	2,4-Dichlorophenol	4.8 U		96.2	79.7	83	77.4	80	3	53-108/26
105-67-9	2,4-Dimethylphenol	4.8 U		96.2	70.7	74	68.8	72	3	37-91/28
51-28-5	2,4-Dinitrophenol	24 U		192	182	95	187	97	3	37-111/30
534-52-1	4,6-Dinitro-o-cresol	9.6 U		192	185	96	186	97	1	62-115/26
95-48-7	2-Methylphenol	4.8 U		96.2	68.2	71	62.4	65	9	35-91/30
	3&4-Methylphenol	4.8 U		192	134	70	125	65	7	32-85/29
88-75-5	2-Nitrophenol	4.8 U		96.2	74.8	78	69.6	72	7	49-111/30
100-02-7	4-Nitrophenol	24 U		192	130	68*	120	62*	8	13-55/31
87-86-5	Pentachlorophenol	24 U		192	194	101	195	101	1	57-118/26
108-95-2	Phenol	4.8 U		96.2	46.1	48	37.6	39	20	13-54/34
95-95-4	2,4,5-Trichlorophenol	4.8 U		96.2	84.6	88	83.8	87	1	59-106/23
88-06-2	2,4,6-Trichlorophenol	4.8 U		96.2	81.9	85	80.7	84	1	58-107/24
83-32-9	Acenaphthene	4.8 U		96.2	78.2	81	76.8	80	2	58-106/21
208-96-8	Acenaphthylene	4.8 U		96.2	77.2	80	76.5	80	1	58-105/21
62-53-3	Aniline	4.8 U		96.2	68.1	71	64.7	67	5	43-98/28
120-12-7	Anthracene	4.8 U		96.2	81.1	84	83.6	87	3	65-108/19
56-55-3	Benzo(a)anthracene	4.8 U		96.2	83.7	87	84.8	88	1	63-111/19
50-32-8	Benzo(a)pyrene	4.8 U		96.2	77.1	80	78.7	82	2	62-106/20
205-99-2	Benzo(b)fluoranthene	4.8 U		96.2	85.8	89	85.3	89	1	63-109/20
191-24-2	Benzo(g,h,i)perylene	4.8 U		96.2	82.3	86	83.0	86	1	61-111/21
207-08-9	Benzo(k)fluoranthene	4.8 U		96.2	82.0	85	83.8	87	2	64-111/20
101-55-3	4-Bromophenyl phenyl ether	4.8 U		96.2	81.6	85	81.9	85	0	64-107/20
85-68-7	Butyl benzyl phthalate	4.8 U		96.2	85.6	89	85.6	89	0	59-114/20
100-51-6	Benzyl Alcohol	4.8 U		96.2	74.2	77	69.5	72	7	34-98/27
91-58-7	2-Chloronaphthalene	4.8 U		96.2	75.8	79	73.0	76	4	54-105/24
106-47-8	4-Chloroaniline	4.8 U		96.2	46.8	49*	51.3	53	9	53-103/22
86-74-8	Carbazole	4.8 U		96.2	84.8	88	85.7	89	1	66-109/20
218-01-9	Chrysene	4.8 U		96.2	83.3	87	84.9	88	2	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	4.8 U		96.2	72.2	75	68.3	71	6	48-101/28
111-44-4	bis(2-Chloroethyl)ether	4.8 U		96.2	70.1	73	64.3	67	9	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	4.8 U		96.2	67.3	70	61.8	64	9	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	4.8 U		96.2	79.2	82	79.7	83	1	61-107/20
95-50-1	1,2-Dichlorobenzene	4.8 U		96.2	68.7	71	63.8	66	7	41-102/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MS	X025465.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
OP43510-MSD	X025466.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
F96766-29	X025464.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	F96766-29 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-66-7	1,2-Diphenylhydrazine	4.8 U		96.2	80.5	84	80.8	84	0	61-110/20
541-73-1	1,3-Dichlorobenzene	4.8 U		96.2	67.2	70	61.6	64	9	38-100/28
106-46-7	1,4-Dichlorobenzene	4.8 U		96.2	67.6	70	61.9	64	9	40-100/28
121-14-2	2,4-Dinitrotoluene	4.8 U		96.2	79.5	83	80.8	84	2	60-109/20
606-20-2	2,6-Dinitrotoluene	4.8 U		96.2	78.7	82	80.0	83	2	58-104/21
91-94-1	3,3'-Dichlorobenzidine	9.6 U		96.2	ND	0*	2.0	2*	200*	57-105/25
53-70-3	Dibenzo(a,h)anthracene	4.8 U		96.2	82.3	86	81.2	84	1	62-112/20
132-64-9	Dibenzofuran	4.8 U		96.2	79.4	83	79.4	83	0	61-108/20
84-74-2	Di-n-butyl phthalate	4.8 U		96.2	86.3	90	86.1	90	0	62-109/20
117-84-0	Di-n-octyl phthalate	4.8 U		96.2	84.5	88	85.2	89	1	60-120/24
84-66-2	Diethyl phthalate	4.8 U		96.2	82.4	86	82.4	86	0	62-109/19
131-11-3	Dimethyl phthalate	4.8 U		96.2	78.4	82	80.4	84	3	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	1.8	I	96.2	84.9	86	86.0	88	1	59-116/21
206-44-0	Fluoranthene	4.8 U		96.2	85.2	89	86.2	90	1	65-114/21
86-73-7	Fluorene	4.8 U		96.2	81.1	84	81.2	84	0	61-106/19
118-74-1	Hexachlorobenzene	4.8 U		96.2	79.4	83	80.7	84	2	62-107/20
87-68-3	Hexachlorobutadiene	4.8 U		96.2	67.4	70	64.7	67	4	38-107/30
77-47-4	Hexachlorocyclopentadiene	9.6 U		96.2	68.7	71	62.5	65	9	19-84/35
67-72-1	Hexachloroethane	4.8 U		96.2	65.6	68	60.9	63	7	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.8 U		96.2	83.8	87	82.8	86	1	61-113/20
78-59-1	Isophorone	4.8 U		96.2	61.3	64	57.5	60	6	56-111/26
90-12-0	1-Methylnaphthalene	4.8 U		96.2	75.7	79	72.1	75	5	52-102/25
91-57-6	2-Methylnaphthalene	0.57	I	96.2	72.5	75	70.1	72	3	56-112/26
88-74-4	2-Nitroaniline	4.8 U		96.2	83.0	86	82.9	86	0	60-109/20
99-09-2	3-Nitroaniline	4.8 U		96.2	59.4	62	61.2	64	3	52-107/21
100-01-6	4-Nitroaniline	4.8 U		96.2	62.6	65	58.2	61	7	59-111/21
91-20-3	Naphthalene	4.8 U		96.2	72.2	75	67.4	70	7	50-104/28
98-95-3	Nitrobenzene	4.8 U		96.2	71.0	74	67.1	70	6	52-105/28
62-75-9	N-Nitrosodimethylamine	4.8 U		96.2	57.1	59	49.5	51	14	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	4.8 U		96.2	74.7	78	69.8	73	7	51-104/28
86-30-6	N-Nitrosodiphenylamine	4.8 U		96.2	82.8	86	83.3	87	1	57-110/19
85-01-8	Phenanthrene	4.8 U		96.2	83.6	87	83.6	87	0	65-108/20
129-00-0	Pyrene	4.8 U		96.2	85.5	89	86.5	90	1	60-113/20
110-86-1	Pyridine	9.6 U		96.2	48.9	51	45.1	47	8	15-67/40
120-82-1	1,2,4-Trichlorobenzene	4.8 U		96.2	69.5	72	64.9	67	7	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43510-MS	X025465.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
OP43510-MSD	X025466.D	1	09/14/12	FS	09/13/12	OP43510	SX1233
F96766-29	X025464.D	1	09/14/12	FS	09/13/12	OP43510	SX1233

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Surrogate Recoveries	MS	MSD	F96766-29	Limits
367-12-4	2-Fluorophenol	56%	48%	33%	14-62%
4165-62-2	Phenol-d5	44%*	36%	22%	10-40%
118-79-6	2,4,6-Tribromophenol	89%	87%	77%	33-118%
4165-60-0	Nitrobenzene-d5	72%	68%		42-108%
321-60-8	2-Fluorobiphenyl	75%	73%		40-106%
1718-51-0	Terphenyl-d14	87%	88%		39-121%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4788-MB	CD117405.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	57-129%
98-08-8	aaa-Trifluorotoluene	98%	58-120%

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4788-BS	CD117404.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.453	113	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96736-3MS	CD117412.D	1	09/13/12	CP	n/a	n/a	GCD4788
F96736-3MSD	CD117413.D	1	09/13/12	CP	n/a	n/a	GCD4788
F96736-3	CD117410.D	1	09/13/12	CP	n/a	n/a	GCD4788

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	F96736-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.434	109	0.432	108	0	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96736-3	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	106%	57-129%
98-08-8	aaa-Trifluorotoluene	117%	116%	100%	58-120%

8.3.1

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43519-MB	ST110115.D	1	09/14/12	MV	09/13/12	OP43519	GST2654

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	105%	38-127%
2051-24-3	Decachlorobiphenyl	106%	25-137%

Method Blank Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-MB	YY32253.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	100%	42-114%

9.1.2

9

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43519-BS	ST110114.D	1	09/14/12	MV	09/13/12	OP43519	GST2654

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	4.0	100	76-117
11096-82-5	Aroclor 1260	4	3.7	93	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	98%	38-127%
2051-24-3	Decachlorobiphenyl	106%	25-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-BS	YY32252.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	1.08	108	60-140
	TPH (> C22-C36)	1	1.40	140	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	114%	42-114%

9.2.2

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43519-MS	ST110122.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
OP43519-MSD	ST110123.D	1	09/14/12	MV	09/13/12	OP43519	GST2654
F96768-11	ST110121.D	1	09/14/12	MV	09/13/12	OP43519	GST2654

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	F96768-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		7.69	7.4	96	7.3	95	1	76-117/16
11096-82-5	Aroclor 1260	ND		7.69	7.9	103	7.6	99	4	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96768-11	Limits
877-09-8	Tetrachloro-m-xylene	97%	95%	106%	38-127%
2051-24-3	Decachlorobiphenyl	102%	101%	93%	25-137%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96768
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43518-MS	YY32255.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
OP43518-MSD	YY32256.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180
F96768-9	YY32254.D	1	09/20/12	SJL	09/13/12	OP43518	GYY1180

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13

CAS No.	Compound	F96768-9 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		1.92	1.97	102	2.10	109	6	60-140/30
	TPH (> C22-C36)	ND		1.92	2.77	144*	2.80	146*	1	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	F96768-9	Limits
84-15-1	o-Terphenyl	107%	112%	93%	42-114%

9.3.2

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25	0.90	<200
Antimony	6.0	1	2	-0.30	<6.0
Arsenic	10	1	2	-0.60	<10
Barium	200	1	5	-0.10	<200
Beryllium	4.0	.1	1	-0.10	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100	1.0	<1000
Chromium	10	1	1	0.30	<10
Cobalt	50	1	1	-0.10	<50
Copper	25	1	2	-0.10	<25
Iron	300	34	35	3.5	<300
Lead	5.0	1	1	-0.40	<5.0
Magnesium	5000	50	100	10.5	<5000
Manganese	15	1	1	0.0	<15
Molybdenum	50	1	2		
Nickel	40	1	2	-0.20	<40
Potassium	10000	50	500	-14	<10000
Selenium	10	2	2	1.3	<10
Silver	10	1	1	-0.10	<10
Sodium	10000	750	1900	-7.2	<10000
Strontium	10	1	1		
Thallium	10	1	1.9	-0.90	<10
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	0.0	<50
Zinc	20	1	5	-0.10	<20

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12 09/14/12

Metal	F96768-1 Original	DUP	RPD	QC Limits	F96768-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	161	154	4.4	0-20	161	30000	27000	110.5	70-130
Antimony	1.8	2.6	36.4 (a)	0-20	1.8	570	500	113.6	70-130
Arsenic	36.3	34.2	6.0	0-20	36.3	2340	2000	115.2	70-130
Barium	24.5	23.1	5.9	0-20	24.5	2230	2000	110.3	70-130
Beryllium	0.0	0.0	NC	0-20	0.0	53.6	50	107.2	70-130
Cadmium	0.0	0.0	NC	0-20	0.0	49.6	50	99.2	70-130
Calcium	656000	653000	0.5	0-20	656000	640000	25000	-64.0(b)	70-130
Chromium	1.7	1.3	26.7 (a)	0-20	1.7	207	200	102.7	70-130
Cobalt	0.0	0.0	NC	0-20	0.0	519	500	103.8	70-130
Copper	48.6	41.7	15.3	0-20	48.6	324	250	110.2	70-130
Iron	270	285	5.4	0-20	270	27500	26000	104.7	70-130
Lead	0.0	0.0	NC	0-20	0.0	499	500	99.8	70-130
Magnesium	107000	102000	4.8	0-20	107000	126000	25000	76.0	70-130
Manganese	92.4	87.8	5.1	0-20	92.4	609	500	103.3	70-130
Molybdenum									
Nickel	19.9	17.3	14.0	0-20	19.9	536	500	103.2	70-130
Potassium	7490	7030	6.3	0-20	7490	35100	25000	110.4	70-130
Selenium	0.0	0.0	NC	0-20	0.0	1190	2000	59.5N(c)	70-130
Silver	0.0	0.0	NC	0-20	0.0	52.6	50	105.2	70-130
Sodium	179000	178000	0.6	0-20	179000	193000	25000	56.0 (b)	70-130
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1960	2000	98.0	70-130
Tin									
Titanium									
Vanadium	8.3	8.5	2.4	0-20	8.3	550	500	108.3	70-130
Zinc	1790	1700	5.2	0-20	1790	2150	500	72.0	70-130

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:					09/14/12				09/14/12	
Metal	F96768-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit	F96768-1F Original	DUP	RPD	QC Limits
Aluminum	161	31300	27000	115.3	4.2	20	74.4	69.5	6.8	0-20
Antimony	1.8	585	500	116.6	2.6	20	3.1	3.1	0.0	0-20
Arsenic	36.3	2410	2000	118.7	2.9	20	3.5	1.9	59.3 (b)	0-20
Barium	24.5	2310	2000	114.3	3.5	20	23.3	23.1	0.9	0-20
Beryllium	0.0	55.2	50	110.4	2.9	20	0.0	0.0	NC	0-20
Cadmium	0.0	50.7	50	101.4	2.2	20	0.0	0.0	NC	0-20
Calcium	656000	657000	25000	4.0 (a)	2.6	20	642000	641000	0.2	0-20
Chromium	1.7	213	200	105.7	2.9	20	0.0	0.0	NC	0-20
Cobalt	0.0	532	500	106.4	2.5	20	0.0	0.0	NC	0-20
Copper	48.6	343	250	117.8	5.7	20	0.0	0.0	NC	0-20
Iron	270	28700	26000	109.3	4.3	20	0.0	0.0	NC	0-20
Lead	0.0	510	500	102.0	2.2	20	0.0	0.0	NC	0-20
Magnesium	107000	132000	25000	100.0	4.7	20	108000	106000	1.9	0-20
Manganese	92.4	628	500	107.1	3.1	20	83.0	81.6	1.7	0-20
Molybdenum										
Nickel	19.9	550	500	106.0	2.6	20	0.0	0.0	NC	0-20
Potassium	7490	36700	25000	116.8	4.5	20	7520	7490	0.4	0-20
Selenium	0.0	1430	2000	71.5	18.3	20	2.4	0.0	200.0(b)	0-20
Silver	0.0	54.6	50	109.2	3.7	20	0.0	0.0	NC	0-20
Sodium	179000	198000	25000	76.0	2.6	20	180000	180000	0.0	0-20
Strontium										
Thallium	0.0	2010	2000	100.5	2.5	20	0.0	0.0	NC	0-20
Tin										
Titanium										
Vanadium	8.3	567	500	111.7	3.0	20	5.6	5.7	1.8	0-20
Zinc	1790	2240	500	90.0	4.1	20	2.4	0.0	200.0(b)	0-20

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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.
(b) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-1F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	74.4	29300	27000	108.2	70-130
Antimony	3.1	555	500	110.4	70-130
Arsenic	3.5	2260	2000	112.8	70-130
Barium	23.3	2180	2000	107.8	70-130
Beryllium	0.0	52.4	50	104.8	70-130
Cadmium	0.0	48.2	50	96.4	70-130
Calcium	642000	717000	25000	300.0(a)	70-130
Chromium	0.0	201	200	100.5	70-130
Cobalt	0.0	503	500	100.6	70-130
Copper	0.0	278	250	111.2	70-130
Iron	0.0	26600	26000	102.3	70-130
Lead	0.0	486	500	97.2	70-130
Magnesium	108000	127000	25000	76.0	70-130
Manganese	83.0	589	500	101.2	70-130
Molybdenum					
Nickel	0.0	505	500	101.0	70-130
Potassium	7520	34900	25000	109.5	70-130
Selenium	2.4	1060	2000	52.9N(b)	70-130
Silver	0.0	52.2	50	104.4	70-130
Sodium	180000	222000	25000	168.0(a)	70-130
Strontium					
Thallium	0.0	1900	2000	95.0	70-130
Tin					
Titanium					
Vanadium	5.6	534	500	105.7	70-130
Zinc	2.4	496	500	98.7	70-130

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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.
(b) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-1F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	74.4	30400	27000	112.3	3.7	20
Antimony	3.1	590	500	117.4	6.1	20
Arsenic	3.5	2370	2000	118.3	4.8	20
Barium	23.3	2290	2000	113.3	4.9	20
Beryllium	0.0	54.6	50	109.2	4.1	20
Cadmium	0.0	50.6	50	101.2	4.9	20
Calcium	642000	677000	25000	140.0(a)	5.7	20
Chromium	0.0	210	200	105.0	4.4	20
Cobalt	0.0	531	500	106.2	5.4	20
Copper	0.0	292	250	116.8	4.9	20
Iron	0.0	27700	26000	106.5	4.1	20
Lead	0.0	508	500	101.6	4.4	20
Magnesium	108000	132000	25000	96.0	3.9	20
Manganese	83.0	616	500	106.6	4.5	20
Molybdenum						
Nickel	0.0	531	500	106.2	5.0	20
Potassium	7520	36200	25000	114.7	3.7	20
Selenium	2.4	1280	2000	63.9N(b)	18.8	20
Silver	0.0	54.9	50	109.8	5.0	20
Sodium	180000	210000	25000	120.0	5.6	20
Strontium						
Thallium	0.0	1990	2000	99.5	4.6	20
Tin						
Titanium						
Vanadium	5.6	559	500	110.7	4.6	20
Zinc	2.4	521	500	103.7	4.9	20

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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.
(b) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28000	27000	103.7	85-115
Antimony	517	500	103.4	85-115
Arsenic	2060	2000	103.0	85-115
Barium	2150	2000	107.5	85-115
Beryllium	52.9	50	105.8	85-115
Cadmium	51.5	50	103.0	85-115
Calcium	25700	25000	102.8	85-115
Chromium	209	200	104.5	85-115
Cobalt	538	500	107.6	85-115
Copper	259	250	103.6	85-115
Iron	27500	26000	105.8	85-115
Lead	487	500	97.4	85-115
Magnesium	25400	25000	101.6	85-115
Manganese	528	500	105.6	85-115
Molybdenum				
Nickel	540	500	108.0	85-115
Potassium	25600	25000	102.4	85-115
Selenium	2060	2000	103.0	85-115
Silver	48.7	50	97.4	85-115
Sodium	25700	25000	102.8	85-115
Strontium				
Thallium	2020	2000	101.0	85-115
Tin				
Titanium				
Vanadium	532	500	106.4	85-115
Zinc	526	500	105.2	85-115

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:			09/14/12				09/14/12	
Metal	F96768-1 Original	SDL 1:5	%DIF	QC Limits	F96768-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum	161	215	33.5 (a)	0-10	74.4	124	67.2 (a)	0-10
Antimony	1.80	0.00	100.0(a)	0-10	3.10	0.00	100.0(a)	0-10
Arsenic	36.3	32.5	10.5 (a)	0-10	3.50	0.00	100.0(a)	0-10
Barium	24.5	25.4	3.7	0-10	23.3	23.1	0.9	0-10
Beryllium	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Calcium	656000	672000	2.4	0-10	642000	671000	4.5	0-10
Chromium	1.70	0.00	100.0(a)	0-10	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Copper	48.6	49.5	1.9	0-10	0.00	0.00	NC	0-10
Iron	270	275	2.1	0-10	0.00	0.00	NC	0-10
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium	107000	108000	0.9	0-10	108000	103000	4.4	0-10
Manganese	92.4	99.1	7.3	0-10	83.0	84.6	1.9	0-10
Molybdenum								
Nickel	19.9	20.7	4.0	0-10	0.00	0.00	NC	0-10
Potassium	7490	7330	2.2	0-10	7520	6990	7.1	0-10
Selenium	0.00	0.00	NC	0-10	2.40	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Sodium	179000	177000	1.1	0-10	180000	183000	1.3	0-10
Strontium								
Thallium	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Tin								
Titanium								
Vanadium	8.30	8.80	6.0	0-10	5.60	0.00	100.0(a)	0-10
Zinc	1790	1960	9.4	0-10	2.40	0.00	100.0(a)	0-10

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	Sample ml	Final ml	F96768-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	160.7	157.486	2823	0.2	125	2500	106.6	85-115
Antimony	9.8	10	1.8	1.764	112.9	0.2	5	100	111.1	85-115
Arsenic	9.8	10	36.3	35.574	148.4	0.2	5	100	112.8	85-115
Barium	9.8	10	24.5	24.01	290.3	0.2	12.5	250	106.5	85-115
Beryllium	9.8	10	0	0	52.9	0.2	2.5	50	105.8	85-115
Cadmium	9.8	10	0	0	50.2	0.2	2.5	50	100.4	85-115
Calcium	9.8	10	655900	642782	671800	0.2	250	5000	580.4*(a	85-115
Chromium	9.8	10	1.7	1.666	52.6	0.2	2.5	50	101.9	85-115
Cobalt	9.8	10	0	0	50.7	0.2	2.5	50	101.4	85-115
Copper	9.8	10	48.6	47.628	159.3	0.2	5	100	111.7	85-115
Iron	9.8	10	269.6	264.208	3344	0.2	150	3000	102.7	85-115
Lead	9.8	10	0	0	48.1	0.2	2.5	50	96.2	85-115
Magnesium	9.8	10	107300	105154	109500	0.2	250	5000	86.9	85-115
Manganese	9.8	10	92.4	90.552	141.9	0.2	2.5	50	102.7	85-115
Molybdenum										
Nickel	9.8	10	19.9	19.502	119.9	0.2	5	100	100.4	85-115
Potassium	9.8	10	7488	7338.24	18390	0.2	500	10000	110.5	85-115
Selenium	9.8	10	0	0	119.2	0.2	5	100	119.2*(a	85-115
Silver	9.8	10	0	0	51.9	0.2	2.5	50	103.8	85-115
Sodium	9.8	10	178700	175126	191800	0.2	500	10000	166.7*(a	85-115
Strontium										
Thallium	9.8	10	0	0	93.5	0.2	5	100	93.5	85-115
Tin										
Titanium										
Vanadium	9.8	10	8.3	8.134	62.4	0.2	2.5	50	108.5	85-115
Zinc	9.8	10	1793	1757.14	2023	0.2	12.5	250	106.3	85-115

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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.

POST DIGESTATE SPIKE SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23665
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/14/12

Metal	Sample ml	Final ml	F96768-1F Raw	F96768-1F Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	74.4	72.912	2836	0.2	125	2500	110.5	85-115
Antimony	9.8	10	3.1	3.038	117.9	0.2	5	100	114.9	85-115
Arsenic	9.8	10	3.5	3.43	122.8	0.2	5	100	119.4*(a	85-115
Barium	9.8	10	23.3	22.834	298.9	0.2	12.5	250	110.4	85-115
Beryllium	9.8	10	0	0	54.8	0.2	2.5	50	109.6	85-115
Cadmium	9.8	10	0	0	52.7	0.2	2.5	50	105.4	85-115
Calcium	9.8	10	642400	629552	669100	0.2	250	5000	791.0*(a	85-115
Chromium	9.8	10	0	0	53.2	0.2	2.5	50	106.4	85-115
Cobalt	9.8	10	0	0	52.4	0.2	2.5	50	104.8	85-115
Copper	9.8	10	0	0	116.7	0.2	5	100	116.7*(a	85-115
Iron	9.8	10	0	0	3212	0.2	150	3000	107.1	85-115
Lead	9.8	10	0	0	51.2	0.2	2.5	50	102.4	85-115
Magnesium	9.8	10	108100	105938	111300	0.2	250	5000	107.2	85-115
Manganese	9.8	10	83	81.34	136.2	0.2	2.5	50	109.7	85-115
Molybdenum										
Nickel	9.8	10	0	0	105.3	0.2	5	100	105.3	85-115
Potassium	9.8	10	7523	7372.54	19170	0.2	500	10000	118.0*(a	85-115
Selenium	9.8	10	2.4	2.352	127.4	0.2	5	100	125.0*(a	85-115
Silver	9.8	10	0	0	54.9	0.2	2.5	50	109.8	85-115
Sodium	9.8	10	180100	176498	197200	0.2	500	10000	207.0*(a	85-115
Strontium										
Thallium	9.8	10	0	0	92	0.2	5	100	92.0	85-115
Tin										
Titanium										
Vanadium	9.8	10	5.6	5.488	62	0.2	2.5	50	113.0	85-115
Zinc	9.8	10	2.4	2.352	299.7	0.2	12.5	250	118.9*(a	85-115

Associated samples MP23665: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F, F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23666
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.012	<1.0

Associated samples MP23666: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23666
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12 09/14/12

Metal	F96768-1 Original	DUP	RPD	QC Limits	F96768-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	2.9	3	96.7	70-130

Associated samples MP23666: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23666
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.8	3	93.3	3.5	

Associated samples MP23666: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23666
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	85-115

Associated samples MP23666: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23666
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23666: F96768-1, F96768-3, F96768-5, F96768-7, F96768-9, F96768-11, F96768-13, F96768-1F, F96768-3F, F96768-5F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23667
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.019	<1.0

Associated samples MP23667: F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23667
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12 09/14/12

Metal	F96768-7F Original	DUP	RPD	QC Limits	F96768-7F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	3.0	3	100.0	70-130

Associated samples MP23667: F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23667
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-7F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	0.0	

Associated samples MP23667: F96768-7F, F96768-9F, F96768-11F, F96768-13F

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: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23667
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	85-115

Associated samples MP23667: F96768-7F, F96768-9F, F96768-11F, F96768-13F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23667
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/14/12

Metal	F96768-7F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23667: F96768-7F, F96768-9F, F96768-11F, F96768-13F

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN51735	100	33.0	mg/l				

Associated Samples:
Batch GN51735: F96768-1, F96768-11, F96768-13, F96768-3, F96768-5, F96768-7, F96768-9
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96768
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN51735	F96768-1	mg/l	3510	3410	2.9	0-5%

Associated Samples:
Batch GN51735: F96768-1, F96768-11, F96768-13, F96768-3, F96768-5, F96768-7, F96768-9
(*) Outside of QC limits

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Southeast ACCUTEST LABORATORIES

09/28/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F96812

Sampling Dates: 09/10/12 - 09/12/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **295**

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

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Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96812

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96812-1	09/11/12	15:50	BPL	09/13/12	AQ	Ground Water	SS18-MW27
F96812-1F	09/11/12	15:50	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW27
F96812-2	09/11/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-3	09/11/12	13:30	BPL	09/13/12	AQ	Ground Water	SS18-MW22
F96812-3F	09/11/12	13:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW22
F96812-4	09/11/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-5	09/11/12	13:30	BPL	09/13/12	AQ	Ground Water	SS18-MW22-A
F96812-5F	09/11/12	13:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW22-A
F96812-6	09/11/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-7	09/10/12	15:30	BPL	09/13/12	AQ	Ground Water	SS18-MW08-A
F96812-7F	09/10/12	15:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW08-A
F96812-8	09/11/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-9	09/11/12	13:30	BPL	09/13/12	AQ	Ground Water	SS18-MW26

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96812

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96812-9D	09/11/12	13:30	BPL	09/13/12	AQ	Water Dup/MSD	SS18-MW26
F96812-9F	09/11/12	13:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW26
F96812-9FD	09/11/12	13:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW26
F96812-9FS	09/11/12	13:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW26
F96812-9S	09/11/12	13:30	BPL	09/13/12	AQ	Water Matrix Spike	SS18-MW26
F96812-10	09/11/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-11	09/12/12	08:45	BPL	09/13/12	AQ	Ground Water	S51-MW1
F96812-11F	09/12/12	08:45	BPL	09/13/12	AQ	Groundwater Filtered	S51-MW1
F96812-12	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-13	09/12/12	11:00	BPL	09/13/12	AQ	Ground Water	SS18-MW17
F96812-13F	09/12/12	11:00	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW17
F96812-14	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-15	09/12/12	10:25	BPL	09/13/12	AQ	Ground Water	S51-MW7

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96812

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96812-15F	09/12/12	10:25	BPL	09/13/12	AQ	Groundwater Filtered	S51-MW7
F96812-16	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-17	09/12/12	09:30	BPL	09/13/12	AQ	Ground Water	SS18-MW05
F96812-17F	09/12/12	09:30	BPL	09/13/12	AQ	Groundwater Filtered	SS18-MW05
F96812-18	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-19	09/12/12	10:45	BPL	09/13/12	AQ	Ground Water	S51-MW5
F96812-19F	09/12/12	10:45	BPL	09/13/12	AQ	Groundwater Filtered	S51-MW5
F96812-20	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK
F96812-21	09/12/12	09:10	BPL	09/13/12	AQ	Ground Water	S51-MW4
F96812-21F	09/12/12	09:10	BPL	09/13/12	AQ	Groundwater Filtered	S51-MW4
F96812-22	09/12/12	00:00	BPL	09/13/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96812

Site: Holloman AFB; SS18 **Report Date** 9/28/2012 12:23:03 PM

11 Samples and 11 Trip Blanks were collected between 09/10/2012 and 09/12/2012 and were received at Accutest on 09/13/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F96812. 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:** VB3527

All samples were analyzed within the recommended method holding time.

Sample(s) F96812-9MS, F96812-9MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for 2-Chloroethyl vinyl ether are outside control limits for sample F96812-9MSD. Probable cause due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VC3566

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96812-19MS, F96812-19MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: AQ **Batch ID:** VC3570

All method blanks for this batch meet method specific criteria.

Sample(s)F97099-4MS, F97099-4MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260B: F96812-17. Sample analyzed beyond hold time; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VZ433

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96829-7MS, F96829-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,2-Dibromo-3-chloropropane, 2-Chloroethyl vinyl ether, Bromoform, cis-1,3-Dichloropropene, Naphthalene, Styrene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,2-Dibromo-3-chloropropane, 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, Naphthalene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for Acrolein, Carbon disulfide, cis-1,3-Dichloropropene are outside control limits for sample F96829-7MSD. Probable cause due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VZ434

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96766-13MS, F96766-13MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43550

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) F96812-9MS, F96812-9MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzoic Acid are outside control limits. SB recovery is biased high. Analyte is non-detect in associated samples; therefore data integrity is not compromised.

Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, Benzoic Acid, Isophorone are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 4-Nitrophenol, Benzoic Acid are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Benzidine are outside control limits for sample OP43550-MSD. Probable cause due to sample non-homogeneity.

F96812-1 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-3 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-5 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-7 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-9 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-11 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-13 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-15 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-17 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-19 for Benzoic Acid: Associated BS recovery outside control limits.

F96812-21 for Benzoic Acid: Associated BS recovery outside control limits.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GCD4794

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96812-3MS, F96812-3MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** GCD4798

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96812-9MS, F96812-9MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP43556

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) F96812-9MS, F96812-9MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43572

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) F96812-9MS, F96812-9MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43613

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) F96920-7MS, F96920-7MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23674

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) F96812-9DUP, F96812-9MS, F96812-9MSD, F96812-9PS, F96812-9SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Selenium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD 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 Thallium are outside control limits for sample MP23674-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Aluminum, Antimony, Nickel, Zinc are outside control limits for sample MP23674-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23674-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23674-PS1 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23674-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23674-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23674-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** MP23695

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) F96812-9FDUP, F96812-9FMS, F96812-9FMSD, F96812-9FPS, F96812-9FSDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Selenium are outside control limits. Spike recovery indicates possible matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Recovery(s) for Calcium, 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, Beryllium, Copper, Zinc are outside control limits for sample MP23695-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Cadmium, Copper, Nickel, Thallium, Zinc are outside control limits for sample MP23695-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23695-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23695-PS1 for Sodium: 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:** MP23689

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) F96812-9DUP, F96812-9MS, F96812-9MSD, F96812-9SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23728

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) F97055-14FDUP, F97055-14FMS, F97055-14FMSD, F97055-14FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23736

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) F96812-9FDUP, F96812-9FMS, F96812-9FMSD, F96812-9FSDL were used as the QC samples for metals.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN51791

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96812-11DUP, F96812-9DUP were used as the QC samples for Solids, Total Dissolved.

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: September 28, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96812-1	**SS18-MW27**					
TPH (C10-C22)		0.101 J	0.25	0.098	mg/l	SW846 8015C
TPH (> C22-C36)		0.111 J	0.25	0.098	mg/l	SW846 8015C
Aluminum		944	200	25	ug/l	SW846 6010C
Arsenic		10.8	10	2.0	ug/l	SW846 6010C
Barium		52.5 J	200	5.0	ug/l	SW846 6010C
Calcium		642000	5000	500	ug/l	SW846 6010C
Cobalt		2.8 J	50	1.0	ug/l	SW846 6010C
Iron		718	300	35	ug/l	SW846 6010C
Magnesium		168000	5000	100	ug/l	SW846 6010C
Manganese		633	15	1.0	ug/l	SW846 6010C
Nickel		8.8 J	40	2.0	ug/l	SW846 6010C
Potassium		10900	10000	500	ug/l	SW846 6010C
Sodium		247000	50000	9500	ug/l	SW846 6010C
Vanadium		40.7 J	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		3820	200	20	mg/l	SM19 2540C
F96812-1F	**SS18-MW27**					
Arsenic		11.3	10	2.0	ug/l	SW846 6010C
Barium		42.0 J	200	5.0	ug/l	SW846 6010C
Calcium		612000	5000	500	ug/l	SW846 6010C
Cobalt		3.2 J	50	1.0	ug/l	SW846 6010C
Magnesium		152000	5000	100	ug/l	SW846 6010C
Manganese		580	15	1.0	ug/l	SW846 6010C
Nickel		9.0 J	40	2.0	ug/l	SW846 6010C
Potassium		10500	10000	500	ug/l	SW846 6010C
Sodium		261000	50000	9500	ug/l	SW846 6010C
Thallium		2.1 J	10	1.9	ug/l	SW846 6010C
Vanadium		34.9 J	50	1.0	ug/l	SW846 6010C
F96812-2	**TRIP BLANK**					
No hits reported in this sample.						
F96812-3	**SS18-MW22**					
Chloroform		0.65 J	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		0.40 J	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		4.2	1.0	0.23	ug/l	SW846 8260B
Aluminum		76.2 J	200	25	ug/l	SW846 6010C
Antimony		4.0 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		15.6	10	2.0	ug/l	SW846 6010C
Barium		12.9 J	200	5.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Calcium	540000	2000	200	ug/l	SW846 6010C
Magnesium	345000	5000	100	ug/l	SW846 6010C
Manganese	13.1 J	15	1.0	ug/l	SW846 6010C
Potassium	4990 J	10000	500	ug/l	SW846 6010C
Selenium	3.1 J	10	2.0	ug/l	SW846 6010C
Sodium	748000	200000	38000	ug/l	SW846 6010C
Vanadium	91.9	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved	5570	400	40	mg/l	SM19 2540C
F96812-3F SS18-MW22					
Antimony	2.1 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	14.9	10	2.0	ug/l	SW846 6010C
Barium	11.2 J	200	5.0	ug/l	SW846 6010C
Calcium	543000	2000	200	ug/l	SW846 6010C
Magnesium	313000	5000	100	ug/l	SW846 6010C
Manganese	11.8 J	15	1.0	ug/l	SW846 6010C
Potassium	5340 J	10000	500	ug/l	SW846 6010C
Selenium	7.2 J	10	2.0	ug/l	SW846 6010C
Sodium	723000	200000	38000	ug/l	SW846 6010C
Vanadium	86.0	50	1.0	ug/l	SW846 6010C
F96812-4 TRIP BLANK					
No hits reported in this sample.					
F96812-5 SS18-MW22-A					
Chloroform	0.61 J	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane	0.42 J	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene	4.5	1.0	0.23	ug/l	SW846 8260B
1,2,3-Trichlorobenzene	0.50 J	1.0	0.50	ug/l	SW846 8260B
Aluminum	49.9 J	200	25	ug/l	SW846 6010C
Antimony	3.0 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	11.9	10	2.0	ug/l	SW846 6010C
Barium	11.6 J	200	5.0	ug/l	SW846 6010C
Calcium	505000	1000	100	ug/l	SW846 6010C
Magnesium	316000	5000	100	ug/l	SW846 6010C
Manganese	12.8 J	15	1.0	ug/l	SW846 6010C
Potassium	4590 J	10000	500	ug/l	SW846 6010C
Selenium	3.1 J	10	2.0	ug/l	SW846 6010C
Sodium	746000	200000	38000	ug/l	SW846 6010C
Vanadium	85.7	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved	5590	400	40	mg/l	SM19 2540C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96812-5F	**SS18-MW22-A**					
Arsenic		14.4	10	2.0	ug/l	SW846 6010C
Barium		11.1 J	200	5.0	ug/l	SW846 6010C
Calcium		529000	2000	200	ug/l	SW846 6010C
Magnesium		304000	5000	100	ug/l	SW846 6010C
Manganese		11.2 J	15	1.0	ug/l	SW846 6010C
Potassium		5140 J	10000	500	ug/l	SW846 6010C
Selenium		8.4 J	10	2.0	ug/l	SW846 6010C
Sodium		691000	200000	38000	ug/l	SW846 6010C
Vanadium		84.5	50	1.0	ug/l	SW846 6010C
F96812-6	**TRIP BLANK**					
No hits reported in this sample.						
F96812-7	**SS18-MW08-A**					
Bromodichloromethane		0.23 J	1.0	0.20	ug/l	SW846 8260B
Chloroform		3.0	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		20.5	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		97.6	2.0	0.46	ug/l	SW846 8260B
1,2-Dichloroethane		0.76 J	1.0	0.20	ug/l	SW846 8260B
Tetrachloroethylene		16.3	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		3.7	1.0	0.26	ug/l	SW846 8260B
Aluminum		42.1 J	200	25	ug/l	SW846 6010C
Antimony		6.8	6.0	2.0	ug/l	SW846 6010C
Arsenic		19.1	10	2.0	ug/l	SW846 6010C
Barium		15.4 J	200	5.0	ug/l	SW846 6010C
Calcium		772000	4000	400	ug/l	SW846 6010C
Magnesium		1030000	20000	400	ug/l	SW846 6010C
Potassium		19900	10000	500	ug/l	SW846 6010C
Selenium		3.4 J	10	2.0	ug/l	SW846 6010C
Sodium		4760000	1000000	190000	ug/l	SW846 6010C
Vanadium		72.5	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		19200	2000	200	mg/l	SM19 2540C
F96812-7F	**SS18-MW08-A**					
Arsenic		21.7	10	2.0	ug/l	SW846 6010C
Barium		14.6 J	200	5.0	ug/l	SW846 6010C
Calcium		853000	5000	500	ug/l	SW846 6010C
Magnesium		1150000	25000	500	ug/l	SW846 6010C
Potassium		24300	10000	500	ug/l	SW846 6010C
Selenium		10.5	10	2.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		4420000	1000000	190000	ug/l	SW846 6010C
Vanadium		70.2	50	1.0	ug/l	SW846 6010C
F96812-8	**TRIP BLANK**					
No hits reported in this sample.						
F96812-9	**SS18-MW26**					
TPH (> C22-C36)		0.107 J	0.24	0.097	mg/l	SW846 8015C
Aluminum		431	200	25	ug/l	SW846 6010C
Antimony		3.0 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		35.5	10	2.0	ug/l	SW846 6010C
Barium		41.5 J	200	5.0	ug/l	SW846 6010C
Calcium		631000	4000	400	ug/l	SW846 6010C
Iron		294 J	300	35	ug/l	SW846 6010C
Magnesium		148000	5000	100	ug/l	SW846 6010C
Manganese		428	15	1.0	ug/l	SW846 6010C
Nickel		2.6 J	40	2.0	ug/l	SW846 6010C
Potassium		15900	10000	500	ug/l	SW846 6010C
Sodium		121000	40000	7600	ug/l	SW846 6010C
Vanadium		36.2 J	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		3420	200	20	mg/l	SM19 2540C
F96812-9F	**SS18-MW26**					
Antimony		2.0 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		33.4	10	2.0	ug/l	SW846 6010C
Barium		34.3 J	200	5.0	ug/l	SW846 6010C
Calcium		608000	4000	400	ug/l	SW846 6010C
Magnesium		131000	5000	100	ug/l	SW846 6010C
Manganese		384	15	1.0	ug/l	SW846 6010C
Nickel		2.9 J	40	2.0	ug/l	SW846 6010C
Potassium		14700	10000	500	ug/l	SW846 6010C
Sodium		122000	40000	7600	ug/l	SW846 6010C
Vanadium		31.3 J	50	1.0	ug/l	SW846 6010C
F96812-10	**TRIP BLANK**					
No hits reported in this sample.						
F96812-11	**S51-MW1**					
TPH (> C22-C36)		0.123 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		39.9 J	200	25	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Antimony	3.1 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	26.8	10	2.0	ug/l	SW846 6010C
Barium	22.5 J	200	5.0	ug/l	SW846 6010C
Calcium	604000	4000	400	ug/l	SW846 6010C
Cobalt	15.4 J	50	1.0	ug/l	SW846 6010C
Iron	62.9 J	300	35	ug/l	SW846 6010C
Magnesium	122000	5000	100	ug/l	SW846 6010C
Manganese	2250	15	1.0	ug/l	SW846 6010C
Nickel	7.8 J	40	2.0	ug/l	SW846 6010C
Potassium	30500	10000	500	ug/l	SW846 6010C
Sodium	135000	40000	7600	ug/l	SW846 6010C
Vanadium	107	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved	3290	200	20	mg/l	SM19 2540C
F96812-11F S51-MW1					
Arsenic	28.6	10	2.0	ug/l	SW846 6010C
Barium	11.6 J	200	5.0	ug/l	SW846 6010C
Calcium	596000	4000	400	ug/l	SW846 6010C
Cobalt	2.6 J	50	1.0	ug/l	SW846 6010C
Lead	1.8 J	5.0	1.0	ug/l	SW846 6010C
Magnesium	119000	5000	100	ug/l	SW846 6010C
Manganese	621	15	1.0	ug/l	SW846 6010C
Nickel	8.4 J	40	2.0	ug/l	SW846 6010C
Potassium	31900	10000	500	ug/l	SW846 6010C
Sodium	130000	40000	7600	ug/l	SW846 6010C
Thallium	3.4 J	10	1.9	ug/l	SW846 6010C
Vanadium	101	50	1.0	ug/l	SW846 6010C
F96812-12 TRIP BLANK					
No hits reported in this sample.					
F96812-13 SS18-MW17					
TPH (> C22-C36)	0.155 J	0.24	0.095	mg/l	SW846 8015C
Aluminum	98.4 J	200	25	ug/l	SW846 6010C
Antimony	2.9 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	7.8 J	10	2.0	ug/l	SW846 6010C
Barium	11.3 J	200	5.0	ug/l	SW846 6010C
Calcium	460000	1000	100	ug/l	SW846 6010C
Iron	49.0 J	300	35	ug/l	SW846 6010C
Magnesium	291000	5000	100	ug/l	SW846 6010C
Manganese	6.7 J	15	1.0	ug/l	SW846 6010C
Potassium	23900	10000	500	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Selenium		2.5 J	10	2.0	ug/l	SW846 6010C
Sodium		417000	100000	19000	ug/l	SW846 6010C
Vanadium		74.7	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		4940	400	40	mg/l	SM19 2540C
F96812-13F	**SS18-MW17**					
Arsenic		9.1 J	10	2.0	ug/l	SW846 6010C
Barium		11.1 J	200	5.0	ug/l	SW846 6010C
Calcium		483000	1000	100	ug/l	SW846 6010C
Magnesium		292000	5000	100	ug/l	SW846 6010C
Manganese		6.5 J	15	1.0	ug/l	SW846 6010C
Potassium		26700	10000	500	ug/l	SW846 6010C
Selenium		6.2 J	10	2.0	ug/l	SW846 6010C
Sodium		502000	200000	38000	ug/l	SW846 6010C
Vanadium		77.9	50	1.0	ug/l	SW846 6010C
F96812-14	**TRIP BLANK**					
No hits reported in this sample.						
F96812-15	**S51-MW7**					
Trichloroethylene		0.46 J	1.0	0.26	ug/l	SW846 8260B
TPH (> C22-C36)		0.184 J	0.25	0.099	mg/l	SW846 8015C
Aluminum		153 J	200	25	ug/l	SW846 6010C
Antimony		2.9 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		16.9	10	2.0	ug/l	SW846 6010C
Barium		13.6 J	200	5.0	ug/l	SW846 6010C
Calcium		607000 ~	2000	200	ug/l	SW846 6010C
Chromium		11.4	10	1.0	ug/l	SW846 6010C
Iron		74.8 J	300	35	ug/l	SW846 6010C
Magnesium		304000	5000	100	ug/l	SW846 6010C
Manganese		206	15	1.0	ug/l	SW846 6010C
Nickel		7.9 J	40	2.0	ug/l	SW846 6010C
Potassium		16700	10000	500	ug/l	SW846 6010C
Sodium		877000	200000	38000	ug/l	SW846 6010C
Thallium		1.9 J	10	1.9	ug/l	SW846 6010C
Vanadium		104	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		5860	400	40	mg/l	SM19 2540C
F96812-15F	**S51-MW7**					
Arsenic		18.5	10	2.0	ug/l	SW846 6010C
Barium		12.8 J	200	5.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Calcium		588000	2000	200	ug/l	SW846 6010C
Magnesium		293000	5000	100	ug/l	SW846 6010C
Manganese		131	15	1.0	ug/l	SW846 6010C
Nickel		7.6 J	40	2.0	ug/l	SW846 6010C
Potassium		18500	10000	500	ug/l	SW846 6010C
Sodium		847000	200000	38000	ug/l	SW846 6010C
Vanadium		104	50	1.0	ug/l	SW846 6010C
F96812-16	**TRIP BLANK**					
No hits reported in this sample.						
F96812-17	**SS18-MW05**					
Chloroform		0.54 J	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane [a]		170	5.0	1.3	ug/l	SW846 8260B
1,1-Dichloroethylene		54.4	1.0	0.23	ug/l	SW846 8260B
1,1,1-Trichloroethane		56.9	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		0.26 J	1.0	0.26	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.165	0.10	0.050	mg/l	SW846 8015C
TPH (> C22-C36)		0.136 J	0.24	0.097	mg/l	SW846 8015C
Aluminum		41.5 J	200	25	ug/l	SW846 6010C
Arsenic		10.0	10	2.0	ug/l	SW846 6010C
Barium		20.1 J	200	5.0	ug/l	SW846 6010C
Calcium		630000	2000	200	ug/l	SW846 6010C
Magnesium		86700	5000	100	ug/l	SW846 6010C
Manganese		1.8 J	15	1.0	ug/l	SW846 6010C
Potassium		7820 J	10000	500	ug/l	SW846 6010C
Sodium		76100	10000	1900	ug/l	SW846 6010C
Thallium		1.9 J	10	1.9	ug/l	SW846 6010C
Vanadium		93.0	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		3030	200	20	mg/l	SM19 2540C
F96812-17F	**SS18-MW05**					
Arsenic		11.4	10	2.0	ug/l	SW846 6010C
Barium		18.5 J	200	5.0	ug/l	SW846 6010C
Calcium		598000	2000	200	ug/l	SW846 6010C
Lead		1.9 J	5.0	1.0	ug/l	SW846 6010C
Magnesium		82500	5000	100	ug/l	SW846 6010C
Manganese		1.6 J	15	1.0	ug/l	SW846 6010C
Potassium		7560 J	10000	500	ug/l	SW846 6010C
Sodium		77100	10000	1900	ug/l	SW846 6010C
Vanadium		88.2	50	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96812-18	**TRIP BLANK**					
No hits reported in this sample.						
F96812-19	**S51-MW5**					
Tetrachloroethylene		2.0	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		0.60 J	1.0	0.26	ug/l	SW846 8260B
Aluminum		254	200	25	ug/l	SW846 6010C
Antimony		2.9 J	6.0	2.0	ug/l	SW846 6010C
Arsenic		14.8	10	2.0	ug/l	SW846 6010C
Barium		16.8 J	200	5.0	ug/l	SW846 6010C
Calcium		708000	2000	200	ug/l	SW846 6010C
Chromium		1.4 J	10	1.0	ug/l	SW846 6010C
Iron		156 J	300	35	ug/l	SW846 6010C
Magnesium		333000	5000	100	ug/l	SW846 6010C
Manganese		401	15	1.0	ug/l	SW846 6010C
Nickel		2.1 J	40	2.0	ug/l	SW846 6010C
Potassium		13800	10000	500	ug/l	SW846 6010C
Sodium		932000	200000	38000	ug/l	SW846 6010C
Vanadium		69.8	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		6420	400	40	mg/l	SM19 2540C
F96812-19F	**S51-MW5**					
Arsenic		18.9	10	2.0	ug/l	SW846 6010C
Barium		15.1 J	200	5.0	ug/l	SW846 6010C
Calcium		707000	2000	200	ug/l	SW846 6010C
Lead		2.2 J	5.0	1.0	ug/l	SW846 6010C
Magnesium		335000	5000	100	ug/l	SW846 6010C
Manganese		362	15	1.0	ug/l	SW846 6010C
Nickel		2.7 J	40	2.0	ug/l	SW846 6010C
Potassium		15200	10000	500	ug/l	SW846 6010C
Sodium		856000	200000	38000	ug/l	SW846 6010C
Vanadium		70.6	50	1.0	ug/l	SW846 6010C
F96812-20	**TRIP BLANK**					
No hits reported in this sample.						
F96812-21	**S51-MW4**					
Chloroform		1.1	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		0.44 J	1.0	0.25	ug/l	SW846 8260B
Dichlorodifluoromethane		1.2 J	2.0	0.50	ug/l	SW846 8260B

Summary of Hits

Job Number: F96812
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/10/12 thru 09/12/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene	3.8	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene	1.3	1.0	0.26	ug/l	SW846 8260B
Pentachlorophenol	6.0 J	24	5.2	ug/l	SW846 8270D
Aluminum	171 J	200	25	ug/l	SW846 6010C
Antimony	3.6 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	13.5	10	2.0	ug/l	SW846 6010C
Barium	14.8 J	200	5.0	ug/l	SW846 6010C
Calcium	671000	2000	200	ug/l	SW846 6010C
Iron	101 J	300	35	ug/l	SW846 6010C
Magnesium	360000	5000	100	ug/l	SW846 6010C
Manganese	227	15	1.0	ug/l	SW846 6010C
Potassium	15900	10000	500	ug/l	SW846 6010C
Sodium	1150000	200000	38000	ug/l	SW846 6010C
Vanadium	91.7	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved	11600	1000	100	mg/l	SM19 2540C
F96812-21F S51-MW4					
Antimony	2.6 J	6.0	2.0	ug/l	SW846 6010C
Arsenic	15.6	10	2.0	ug/l	SW846 6010C
Barium	13.5 J	200	5.0	ug/l	SW846 6010C
Calcium	683000	2000	200	ug/l	SW846 6010C
Lead	3.2 J	5.0	1.0	ug/l	SW846 6010C
Magnesium	409000	5000	100	ug/l	SW846 6010C
Manganese	158	15	1.0	ug/l	SW846 6010C
Potassium	18000	10000	500	ug/l	SW846 6010C
Selenium	3.9 J	10	2.0	ug/l	SW846 6010C
Sodium	1340000	500000	95000	ug/l	SW846 6010C
Vanadium	86.5	50	1.0	ug/l	SW846 6010C

F96812-22 TRIP BLANK

No hits reported in this sample.

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085837.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025517.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.53	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.51	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	25	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.85	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.97	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.98	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.98	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.8	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117662.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	96%		58-120%

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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110287.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		38-127%
2051-24-3	Decachlorobiphenyl	94%		25-137%

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:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001465.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.101	0.25	0.098	mg/l	J
	TPH (> C22-C36)	0.111	0.25	0.098	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		42-114%

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: SS18-MW27
Lab Sample ID: F96812-1
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	944	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	10.8	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	52.5 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	642000	5000	500	ug/l	5	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	2.8 J	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	718	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	168000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	633	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	8.8 J	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	10900	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	247000	50000	9500	ug/l	5	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	40.7 J	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW27		
Lab Sample ID:	F96812-1	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3820	200	20	mg/l	2	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW27		
Lab Sample ID:	F96812-1F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	11.3	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	42.0 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	612000	5000	500	ug/l	5	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	3.2 J	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	152000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	580	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	9.0 J	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	10500	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	261000	50000	9500	ug/l	5	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	2.1 J	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	34.9 J	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10147
(2) Instrument QC Batch: MA10153
(3) Instrument QC Batch: MA10157
(4) Prep QC Batch: MP23689
(5) Prep QC Batch: MP23695

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-2	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085838.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-2	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-2	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085839.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.65	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.40	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	4.2	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		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	100%		84-120%

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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025518.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.7	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.7	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.52	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.50	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	24	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.97	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.97	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.97	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.97	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.7	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.96	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.97	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.7	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.7	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117579.D	1	09/19/12	CP	n/a	n/a	GCD4794
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110288.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		38-127%
2051-24-3	Decachlorobiphenyl	87%		25-137%

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:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001466.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		42-114%

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: SS18-MW22
Lab Sample ID: F96812-3
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	76.2 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	4.0 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	15.6	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	12.9 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	540000	2000	200	ug/l	2	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	345000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	13.1 J	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	4990 J	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	3.1 J	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	748000	200000	38000	ug/l	20	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	91.9	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW22		
Lab Sample ID:	F96812-3	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	5570	400	40	mg/l	4	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW22		
Lab Sample ID:	F96812-3F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.1 J	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	14.9	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	11.2 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	543000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	313000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	11.8 J	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	5340 J	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	7.2 J	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	723000	200000	38000	ug/l	20	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	86.0	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10147
(2) Instrument QC Batch: MA10153
(3) Instrument QC Batch: MA10157
(4) Prep QC Batch: MP23689
(5) Prep QC Batch: MP23695

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-4	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085840.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-4	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-4	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085843.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.61	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.42	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	4.5	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.50	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025519.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Associated BS recovery outside control limits.

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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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117669.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110289.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		38-127%
2051-24-3	Decachlorobiphenyl	98%		25-137%

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:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001467.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		42-114%

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: SS18-MW22-A
Lab Sample ID: F96812-5
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	49.9 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	3.0 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	11.9	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	11.6 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	505000	1000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	316000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	12.8 J	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	4590 J	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	3.1 J	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	746000	200000	38000	ug/l	20	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	85.7	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW22-A		
Lab Sample ID:	F96812-5	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	5590	400	40	mg/l	4	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW22-A		
Lab Sample ID:	F96812-5F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	14.4	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	11.1 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	529000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	304000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	11.2 J	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	5140 J	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	8.4 J	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	691000	200000	38000	ug/l	20	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	84.5	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10147
(2) Instrument QC Batch: MA10153
(3) Instrument QC Batch: MA10157
(4) Prep QC Batch: MP23689
(5) Prep QC Batch: MP23695

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-6	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085844.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-6	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-6	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z9583.D	1	09/21/12	KW	n/a	n/a	VZ433
Run #2	Z9597.D	2	09/22/12	KW	n/a	n/a	VZ434

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	0.23	1.0	0.20	ug/l	J
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	3.0	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	20.5	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	97.6 [a]	2.0	0.46	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.76	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	16.3	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	3.7	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	76-127%
2037-26-5	Toluene-D8	101%	102%	86-112%
460-00-4	4-Bromofluorobenzene	103%	104%	84-120%

(a) Result is from Run# 2

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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025520.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117658.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110290.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	94%		25-137%

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:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001468.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		42-114%

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: SS18-MW08-A
Lab Sample ID: F96812-7
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/10/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	42.1 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Antimony	6.8	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Arsenic	19.1	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Barium	15.4 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Calcium	772000	4000	400	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Magnesium	1030000	20000	400	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [6]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Potassium	19900	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Selenium	3.4 J	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Sodium	4760000	1000000	190000	ug/l	100	09/17/12	09/19/12	LM	SW846 6010C [4]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Vanadium	72.5	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [5]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Instrument QC Batch: MA10153
(5) Prep QC Batch: MP23674
(6) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW08-A		
Lab Sample ID:	F96812-7	**Date Sampled:**	09/10/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	19200	2000	200	mg/l	20	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW08-A		
Lab Sample ID:	F96812-7F	**Date Sampled:**	09/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	21.7	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	14.6 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	853000	5000	500	ug/l	5	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	1150000	25000	500	ug/l	5	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	24300	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	10.5	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	4420000	1000000	190000	ug/l	100	09/19/12	09/20/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	70.2	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10147
(2) Instrument QC Batch: MA10153
(3) Instrument QC Batch: MA10157
(4) Prep QC Batch: MP23689
(5) Prep QC Batch: MP23695

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085846.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-8	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085847.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025521.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.53	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.51	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	25	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	ug/l	

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RL = Reporting Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.85	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.97	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.98	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.98	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.8	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117648.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	102%		58-120%

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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110295.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		38-127%
2051-24-3	Decachlorobiphenyl	84%		25-137%

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:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001469.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.097	mg/l	
	TPH (> C22-C36)	0.107	0.24	0.097	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		42-114%

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: SS18-MW26
Lab Sample ID: F96812-9
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/11/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	431	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	3.0 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	35.5	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	41.5 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	631000	4000	400	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	294 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	148000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	428	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.6 J	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	15900	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	121000	40000	7600	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	36.2 J	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW26		
Lab Sample ID:	F96812-9	**Date Sampled:**	09/11/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3420	200	20	mg/l	2	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW26		
Lab Sample ID:	F96812-9F	**Date Sampled:**	09/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 J	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	33.4	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	34.3 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	608000	4000	400	ug/l	4	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	131000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	384	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	SW846 7470A [3]	SW846 7470A [5]
Nickel	2.9 J	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	14700	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	122000	40000	7600	ug/l	4	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	31.3 J	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10165
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23736

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085848.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-10	**Date Sampled:**	09/11/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085849.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025524.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.53	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.51	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	25	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.85	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.97	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.98	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.98	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.8	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

(a) Associated BS recovery outside 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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117671.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110291.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		38-127%
2051-24-3	Decachlorobiphenyl	85%		25-137%

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:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001472.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	0.123	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		42-114%

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: S51-MW1
Lab Sample ID: F96812-11
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	39.9 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	3.1 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	26.8	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	22.5 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	604000	4000	400	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	15.4 J	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	62.9 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	122000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	2250	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	7.8 J	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	30500	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	135000	40000	7600	ug/l	4	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	107	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW1		
Lab Sample ID:	F96812-11	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3290	200	20	mg/l	2	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW1		
Lab Sample ID:	F96812-11F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	28.6	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	11.6 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	596000	4000	400	ug/l	4	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	2.6 J	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.8 J	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	119000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	621	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/22/12	09/22/12	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	8.4 J	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	31900	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	130000	40000	7600	ug/l	4	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	3.4 J	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	101	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10162
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23728

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-12	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085850.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-12	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-12	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085851.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025525.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.53	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.51	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	25	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	ug/l	

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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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.85	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.97	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.98	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.98	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.8	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
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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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117663.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110292.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		38-127%
2051-24-3	Decachlorobiphenyl	95%		25-137%

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:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001475.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	0.155	0.24	0.095	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		42-114%

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: SS18-MW17
Lab Sample ID: F96812-13
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	98.4 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.9 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	7.8 J	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	11.3 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	460000	1000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	49.0 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	291000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	6.7 J	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	23900	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.5 J	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	417000	100000	19000	ug/l	10	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	74.7	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW17		
Lab Sample ID:	F96812-13	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	4940	400	40	mg/l	4	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW17		
Lab Sample ID:	F96812-13F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	9.1 J	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	11.1 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	483000	1000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	292000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	6.5 J	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/22/12	09/22/12	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	26700	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	6.2 J	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	502000	200000	38000	ug/l	20	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	77.9	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10162
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23728

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-14	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085852.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-14	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-14	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085853.D	1	09/21/12	WV	n/a	n/a	VB3527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	0.46	1.0	0.26	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		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	100%		84-120%

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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025526.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Associated BS recovery outside 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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117672.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110298.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		38-127%
2051-24-3	Decachlorobiphenyl	103%		25-137%

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:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001476.D	1	09/21/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.099	mg/l	
	TPH (> C22-C36)	0.184	0.25	0.099	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		42-114%

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: S51-MW7
Lab Sample ID: F96812-15
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	153 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.9 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	16.9	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	13.6 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	607000 ~	2000	200	ug/l	2	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	11.4	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	74.8 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	304000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	206	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	7.9 J	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	16700	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	877000	200000	38000	ug/l	20	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 J	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	104	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW7		
Lab Sample ID:	F96812-15	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	5860	400	40	mg/l	4	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: S51-MW7
Lab Sample ID: F96812-15F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	18.5	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	12.8 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	588000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	293000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	131	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/22/12	09/22/12	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	7.6 J	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	18500	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	847000	200000	38000	ug/l	20	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	104	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10162
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23728

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-16	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089559.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-16	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-16	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	116%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	118%		84-120%

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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089560.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2 [a]	C089678.D	5	09/27/12	WV	n/a	n/a	VC3570

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.54	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	170 [b]	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	54.4	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	56.9	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	0.26	1.0	0.26	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	117%	108%	76-127%
2037-26-5	Toluene-D8	105%	100%	86-112%
460-00-4	4-Bromofluorobenzene	114%	108%	84-120%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Result is from Run# 2

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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025527.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	50	9.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.9	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.53	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.51	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.99	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.99	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.99	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.99	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.9	0.99	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.51	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.86	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.98	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.99	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.9	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.99	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.79	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.99	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	9.9	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117664.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.165	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		57-129%
98-08-8	aaa-Trifluorotoluene	102%		58-120%

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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110299.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		38-127%
2051-24-3	Decachlorobiphenyl	108%		25-137%

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:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001477.D	1	09/21/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.097	mg/l	
	TPH (> C22-C36)	0.136	0.24	0.097	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		42-114%

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: SS18-MW05
Lab Sample ID: F96812-17
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	41.5 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	10.0	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	20.1 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	630000	2000	200	ug/l	2	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	86700	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	1.8 J	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	7820 J	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	76100	10000	1900	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Thallium	1.9 J	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	93.0	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW05		
Lab Sample ID:	F96812-17	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3030	200	20	mg/l	2	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW05
Lab Sample ID: F96812-17F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	11.4	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	18.5 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	598000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.9 J	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	82500	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	1.6 J	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/22/12	09/22/12	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	7560 J	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	77100	10000	1900	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	88.2	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10162
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23728

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-18	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089561.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-18	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-18	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		87-116%
17060-07-0	1,2-Dichloroethane-D4	118%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	117%		84-120%

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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089562.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	2.0	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.60	1.0	0.26	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	120%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	114%		84-120%

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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025528.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.8	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	9.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.53	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.53	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.3	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.51	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	25	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.98	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	ug/l	

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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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.53	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.98	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.98	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.8	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.51	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.85	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.97	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.98	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.56	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.58	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.98	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.8	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

(a) Associated BS recovery outside 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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117673.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		57-129%
98-08-8	aaa-Trifluorotoluene	98%		58-120%

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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110300.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	89%		25-137%

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:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001478.D	1	09/21/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		42-114%

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: S51-MW5
Lab Sample ID: F96812-19
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	254	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.9 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	14.8	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	16.8 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	708000	2000	200	ug/l	2	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.4 J	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	156 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	333000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	401	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.1 J	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	13800	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	932000	200000	38000	ug/l	20	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	69.8	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW5		
Lab Sample ID:	F96812-19	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6420	400	40	mg/l	4	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: S51-MW5
Lab Sample ID: F96812-19F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	18.9	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	15.1 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	707000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	2.2 J	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	335000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	362	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/22/12	09/22/12	LM	SW846 7470A [3]	SW846 7470A [5]
Nickel	2.7 J	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	15200	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	856000	200000	38000	ug/l	20	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	70.6	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10162
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23728

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-20	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089563.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-20	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-20	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		87-116%
17060-07-0	1,2-Dichloroethane-D4	122%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	114%		84-120%

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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089564.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	1.1	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.44	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.2	2.0	0.50	ug/l	J
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	

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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	3.8	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	1.3	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		87-116%
17060-07-0	1,2-Dichloroethane-D4	121%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	116%		84-120%

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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025709.D	1	09/27/12	FS	09/15/12	OP43550	SX1242
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid [a]	ND	49	9.7	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.49	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.49	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.49	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.7	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.52	ug/l	
	3&4-Methylphenol	ND	4.9	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.9	ug/l	
87-86-5	Pentachlorophenol	6.0	24	5.2	ug/l	J
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.49	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.49	ug/l	
62-53-3	Aniline	ND	4.9	0.50	ug/l	
120-12-7	Anthracene	ND	4.9	0.49	ug/l	
92-87-5	Benzidine	ND	24	4.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.49	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.49	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.49	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.49	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.49	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.97	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.49	ug/l	
86-74-8	Carbazole	ND	4.9	0.49	ug/l	
218-01-9	Chrysene	ND	4.9	0.49	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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.49	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.49	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.97	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.97	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.97	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.7	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.96	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.49	ug/l	
86-73-7	Fluorene	ND	4.9	0.49	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.97	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.7	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.49	ug/l	
78-59-1	Isophorone	ND	4.9	0.49	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.49	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.49	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.49	ug/l	
91-20-3	Naphthalene	ND	4.9	0.78	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.49	ug/l	
129-00-0	Pyrene	ND	4.9	0.49	ug/l	
110-86-1	Pyridine	ND	9.7	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

(a) Associated BS recovery outside 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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117674.D	1	09/21/12	CP	n/a	n/a	GCD4798
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110374.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%		38-127%
2051-24-3	Decachlorobiphenyl	97%		25-137%

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:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001479.D	1	09/21/12	NJ	09/15/12	OP43556	GNN65
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.095	mg/l	
	TPH (> C22-C36)	ND	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		42-114%

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: S51-MW4
Lab Sample ID: F96812-21
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	171 J	200	25	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	3.6 J	6.0	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	13.5	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	14.8 J	200	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	671000	2000	200	ug/l	2	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	101 J	300	35	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	1.0 U	5.0	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	360000	5000	100	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	227	15	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/18/12	09/18/12	JL	SW846 7470A [2]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	15900	10000	500	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	2.0 U	10	2.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	1150000	200000	38000	ug/l	20	09/17/12	09/18/12	LM	SW846 6010C [3]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	91.7	50	1.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/17/12	09/17/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10146
(2) Instrument QC Batch: MA10147
(3) Instrument QC Batch: MA10149
(4) Prep QC Batch: MP23674
(5) Prep QC Batch: MP23689

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW4		
Lab Sample ID:	F96812-21	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/13/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	11600	1000	100	mg/l	10	09/15/12	KV	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: S51-MW4
Lab Sample ID: F96812-21F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/13/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Antimony	2.6 J	6.0	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	15.6	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	13.5 J	200	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Calcium	683000	2000	200	ug/l	2	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Chromium	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	1.0 U	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	2.0 U	25	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Iron	35 U	300	35	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	3.2 J	5.0	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Magnesium	409000	5000	100	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Manganese	158	15	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	SW846 7470A [3]	SW846 7470A [5]
Nickel	2.0 U	40	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Potassium	18000	10000	500	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	3.9 J	10	2.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	1.0 U	10	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Sodium	1340000	500000	95000	ug/l	50	09/19/12	09/20/12	LM	SW846 6010C [2]	SW846 3010A [4]
Thallium	1.9 U	10	1.9	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Vanadium	86.5	50	1.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	5.0 U	20	5.0	ug/l	1	09/19/12	09/19/12	LM	SW846 6010C [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA10153
(2) Instrument QC Batch: MA10157
(3) Instrument QC Batch: MA10165
(4) Prep QC Batch: MP23695
(5) Prep QC Batch: MP23736

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96812-22	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C089565.D	1	09/21/12	WV	n/a	n/a	VC3566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96812-22	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96812-22	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		87-116%
17060-07-0	1,2-Dichloroethane-D4	122%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	117%		84-120%

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
- Certification Exceptions (NM)
- Chain of Custody

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F96812

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW27	SS18-MW27	9/11/2012	1550	-	N	1	WG	14	X	X	X	X	X	X	X	X				1
2	Trip Blank				-	TB	1	WQ	2	X											1
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	9/12/12	1400	1. FX		10:30
2. FX			2. J. Coyne (ALSE)	9-13-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798945025789

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.6 2.8 3.0 3.0 2.4 2.6 2.8
3.0 3.2 2.6 2.4 2.6 2.6

5.1

5

F96812: Chain of Custody

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09122012-02
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS18-MW22	SS18-MW22	9/11/2012	1330	-	N	1	WG	14	X	X	X	X	X	X	X	X				2
4	Trip Blank				-	TB	1	WQ	2	X											2
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JHMoore	9/12/12	1400	EX		10:30
2.	EX			J Cozzone (ALSo)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989 4502 6318
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09122012-03
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
5	SS18-MW22-A	SS18-MW22	9/11/2012	1330	-	FD	1	WG	15	X	X	X	X	X	X	X	X				3
6	Trip Blank				-	TB	1	WQ	2	X											3
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	A Moore	9/12/12	1400	FX		10:30
2.	FX			J. Coone (AASE)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798945025388
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 9112012-04
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW08-A	SS18-MW08	9/10/2012	1530	-	FD	1	WG	15	X	X	X	X	X	X	X	X				
8	Trip Blank				-	TB	1	WQ	2	X											4
					-																
					-																
					-																
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					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/11/12	1400	FX		
2.	FX			[signature] (ALSE)	9-13-12	10:30
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989-3477 5101
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
9	SS18-MW26	SS18-MW26	9/11/2012	1330	-	N	1	WG	15	X	X	X	X	X	X	X	X				4
10	Trip Blank				-	TB	1	WQ	2	X											4
					-																
					-																
					-																
					-																
					-																
					-																
					-																

Sample Analysis Requested (5) — Quality Assurance Samples (6)

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. A. Moore	9/12/12	1400	1. FX		10:30
2. FX			2. [signature] (ALSE)	9-13-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 7989450265 02

Analytical Lab: Accutest Labs

Delivery Location: Orlando, FL

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1) 09122012-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
9	SS18-MW26-MS	SS18-MW26	9/11/2012	1330	-	MS	1	WG	15	X	X	X	X	X	X	X	X				5
10	Trip Blank				-	TB	1	WQ	2	X											5
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/12/12	1400	FX		10:30
2.	FX			[signature] (AIST)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798945026075

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
9	SS18-MW26-MSD	SS18-MW26	9/11/2012		-	SD	1	WG	14	X	X	X	X	X	X	X	X				6
10	Trip Blank				-	TB	1	WQ	2	X											6
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/12/12	1400	FX		10:30
2.	FX			J Lorne (ABS)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.: 7989450260 86

Airbill Number: ~~7989450257 89~~ JHM

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-7

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
11	SS1-MW1	SS1-MW1	9/12/2012	0845	-	N	1	WG	15	X	X	X	X	X	X	X	X				7
12	Trip Blank				-	TB	1	WQ	2	X											7
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/12/12	1400	FX		10:30
2.	FX			[signature] (ALS)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798945026410

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09122012-8
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
13	SS18-MW17	SS18-MW17	9/12/2012	1100	-	N	1	WG	15	X	X	X	X	X	X	X	X				8
14	Trip Blank				-	TB	1	WQ	2	X											8
					-																
					-																
					-																
					-																
					-																
					-																
					-																

Sample Analysis Requested (5) — Quality Assurance Samples (6)

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	9/12/12	1400	1. FX		10:30
2. FX			2. J. Corral (ALSE)	9-13-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989450264 21
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09-12 2012-9
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)									Quality Assurance Samples (6)			
S 16 SS1-MW7	SS1-MW7	9/12/12	1025	-	N	1	WG	15	X	X	X	X	X	X	X	X				9
Trip Blank				-	TB	1	WQ	2	X											9
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature] FX	9/12/12	1400	FX		10:30
2.				J. Conne (AISR)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989450 2-6178
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-10

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
17	SS18-MW05	SS18-MW05	9/12/2012	0930	-	N	1	WG	15	X	X	X	X	X	X	X	X				10
18	Trip Blank				-	TB	1	WQ	2	X											10
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J. Moore	9/12/12	1400	Ft		10:30
2.	Ft			J. Corne (ALSE)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989 4502 6432

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09122012-11

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
19	S51-MW5	S51-MW5	9/12/2012	1045	-	N	1	WG	15	X	X	X	X	X	X	X	X				11
20	~~8~~ 1st Trip Blank				-	TB	1	WQ	2	X											11
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/12/12	1400	FX		10:30
2.	FX			J. Comne (ALS)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798945026248

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

F96812

Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09122012-12
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
21	SS1-MW4	SS1-MW4	9/12/2012	0910	-	N	1	WG	15	X	X	X	X	X	X	X	X				12
22	Trip Blank				-	TB	1	WQ	2	X											12
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/12/12	1400	[signature]		10:30
2.	[signature]			[signature] (ARSC)	9-13-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798945026270
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96812 CLIENT: NATIONVIEW PROJECT: SS-18 ACM

DATE/TIME RECEIVED: 9-13-12 10:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 13

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

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 13
- [ ] 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 2.4 2.6 2.6 2.0 2.2 2.4 2.6 2.8 2.2 2.0 2.2 2.2
- [ ] CORRECTED TEMPS: 2.6 2.8 3.0 3.0 2.4 2.6 2.8 3.0 3.2 2.6 2.4 2.6 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [x] 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: RECEIVED 1 AMBER (8082) FOR SAMPLES 1, 3
11 5 AMBER (8082) 11 11 9
RECEIVED 1 VIAL (8260) FOR SAMPLE #13 BROKEN

TECHNICIAN SIGNATURE/DATE JC 9-13-12 REVIEWER SIGNATURE/DATE [signature] 09-13-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F96812: Chain of Custody
Page 14 of 14

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

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-MB	Z9565.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-MB	Z9565.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	1.0	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.53	1.0	0.50	ug/l	J
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-MB	Z9565.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	104%	84-120%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-MB	B085833.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-MB	B085833.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.71	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-MB	B085833.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-MB	C089555.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-MB	C089555.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-MB	C089555.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	87-116%
17060-07-0	1,2-Dichloroethane-D4	108%	76-127%
2037-26-5	Toluene-D8	105%	86-112%
460-00-4	4-Bromofluorobenzene	111%	84-120%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ434-MB	Z9593.D	1	09/22/12	KW	n/a	n/a	VZ434

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Result	RL	MDL	Units	Q
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	104%	84-120%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3570-MB	C089664.D	1	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-17

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	109%	84-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-BS	Z9564.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	161	129	59-134
107-02-8	Acrolein	125	164	131	33-157
107-13-1	Acrylonitrile	125	119	95	62-124
71-43-2	Benzene	25	25.1	100	83-124
108-86-1	Bromobenzene	25	26.6	106	83-115
74-97-5	Bromochloromethane	25	22.8	91	78-112
75-27-4	Bromodichloromethane	25	23.6	94	76-116
75-25-2	Bromoform	25	22.6	90	68-128
104-51-8	n-Butylbenzene	25	25.3	101	84-124
135-98-8	sec-Butylbenzene	25	26.9	108	86-127
98-06-6	tert-Butylbenzene	25	26.9	108	83-126
108-90-7	Chlorobenzene	25	26.1	104	87-115
75-00-3	Chloroethane	25	24.4	98	54-166
67-66-3	Chloroform	25	23.7	95	85-123
95-49-8	o-Chlorotoluene	25	25.9	104	84-121
106-43-4	p-Chlorotoluene	25	26.9	108	84-120
110-75-8	2-Chloroethyl vinyl ether	125	105	84	63-125
75-15-0	Carbon disulfide	25	22.8	91	67-147
56-23-5	Carbon tetrachloride	25	25.1	100	74-139
75-34-3	1,1-Dichloroethane	25	23.9	96	82-127
563-58-6	1,1-Dichloropropene	25	25.9	104	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.0	92	61-118
106-93-4	1,2-Dibromoethane	25	23.5	94	80-115
107-06-2	1,2-Dichloroethane	25	23.2	93	76-122
78-87-5	1,2-Dichloropropane	25	23.8	95	81-120
142-28-9	1,3-Dichloropropane	25	23.5	94	81-113
594-20-7	2,2-Dichloropropane	25	25.9	104	77-138
124-48-1	Dibromochloromethane	25	24.0	96	74-116
75-71-8	Dichlorodifluoromethane	25	23.9	96	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.8	99	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	83-119
541-73-1	m-Dichlorobenzene	25	25.8	103	86-115
95-50-1	o-Dichlorobenzene	25	25.1	100	85-115
106-46-7	p-Dichlorobenzene	25	24.2	97	87-113
156-60-5	trans-1,2-Dichloroethylene	25	24.5	98	82-126
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	87-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-BS	Z9564.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	25	25.0	100	87-118
591-78-6	2-Hexanone	125	115	92	58-125
87-68-3	Hexachlorobutadiene	25	31.5	126	71-133
98-82-8	Isopropylbenzene	25	27.6	110	87-131
99-87-6	p-Isopropyltoluene	25	26.1	104	83-125
108-10-1	4-Methyl-2-pentanone	125	105	84	62-125
74-83-9	Methyl bromide	25	24.9	100	55-151
74-87-3	Methyl chloride	25	24.0	96	55-173
74-95-3	Methylene bromide	25	24.8	99	81-116
75-09-2	Methylene chloride	25	24.2	97	69-125
78-93-3	Methyl ethyl ketone	125	124	99	61-127
1634-04-4	Methyl Tert Butyl Ether	25	22.6	90	75-116
91-20-3	Naphthalene	25	25.0	100	59-125
103-65-1	n-Propylbenzene	25	27.1	108	86-125
100-42-5	Styrene	25	23.9	96	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.6	98	81-119
71-55-6	1,1,1-Trichloroethane	25	24.8	99	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.3	97	71-120
79-00-5	1,1,2-Trichloroethane	25	25.9	104	80-114
87-61-6	1,2,3-Trichlorobenzene	25	25.2	101	64-126
96-18-4	1,2,3-Trichloropropane	25	25.6	102	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.4	102	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.6	98	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.3	97	83-123
127-18-4	Tetrachloroethylene	25	25.6	102	80-131
108-88-3	Toluene	25	25.3	101	86-116
79-01-6	Trichloroethylene	25	25.3	101	85-124
75-69-4	Trichlorofluoromethane	25	25.7	103	66-156
75-01-4	Vinyl chloride	25	26.2	105	57-153
108-05-4	Vinyl Acetate	125	131	105	38-159
	m,p-Xylene	50	51.3	103	86-121
95-47-6	o-Xylene	25	25.5	102	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ433-BS	Z9564.D	1	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-BS	B085832.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	144	115	59-134
107-02-8	Acrolein	125	101	81	33-157
107-13-1	Acrylonitrile	125	120	96	62-124
71-43-2	Benzene	25	25.9	104	83-124
108-86-1	Bromobenzene	25	23.8	95	83-115
74-97-5	Bromochloromethane	25	24.2	97	78-112
75-27-4	Bromodichloromethane	25	25.4	102	76-116
75-25-2	Bromoform	25	23.0	92	68-128
104-51-8	n-Butylbenzene	25	25.8	103	84-124
135-98-8	sec-Butylbenzene	25	27.7	111	86-127
98-06-6	tert-Butylbenzene	25	27.2	109	83-126
108-90-7	Chlorobenzene	25	25.7	103	87-115
75-00-3	Chloroethane	25	29.1	116	54-166
67-66-3	Chloroform	25	24.7	99	85-123
95-49-8	o-Chlorotoluene	25	25.7	103	84-121
106-43-4	p-Chlorotoluene	25	27.0	108	84-120
110-75-8	2-Chloroethyl vinyl ether	125	120	96	63-125
75-15-0	Carbon disulfide	25	23.9	96	67-147
56-23-5	Carbon tetrachloride	25	26.3	105	74-139
75-34-3	1,1-Dichloroethane	25	25.2	101	82-127
75-35-4	1,1-Dichloroethylene	25	26.6	106	75-133
563-58-6	1,1-Dichloropropene	25	26.2	105	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	22.1	88	61-118
106-93-4	1,2-Dibromoethane	25	23.3	93	80-115
107-06-2	1,2-Dichloroethane	25	24.1	96	76-122
78-87-5	1,2-Dichloropropane	25	25.1	100	81-120
142-28-9	1,3-Dichloropropane	25	22.9	92	81-113
594-20-7	2,2-Dichloropropane	25	26.4	106	77-138
124-48-1	Dibromochloromethane	25	24.2	97	74-116
75-71-8	Dichlorodifluoromethane	25	31.3	125	34-158
156-59-2	cis-1,2-Dichloroethylene	25	25.6	102	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.3	97	83-119
541-73-1	m-Dichlorobenzene	25	26.2	105	86-115
95-50-1	o-Dichlorobenzene	25	25.6	102	85-115
106-46-7	p-Dichlorobenzene	25	23.9	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.1	100	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-BS	B085832.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	87-123
100-41-4	Ethylbenzene	25	25.5	102	87-118
591-78-6	2-Hexanone	125	119	95	58-125
87-68-3	Hexachlorobutadiene	25	28.1	112	71-133
98-82-8	Isopropylbenzene	25	26.2	105	87-131
99-87-6	p-Isopropyltoluene	25	26.7	107	83-125
108-10-1	4-Methyl-2-pentanone	125	125	100	62-125
74-83-9	Methyl bromide	25	29.4	118	55-151
74-87-3	Methyl chloride	25	31.4	126	55-173
74-95-3	Methylene bromide	25	23.7	95	81-116
75-09-2	Methylene chloride	25	26.5	106	69-125
78-93-3	Methyl ethyl ketone	125	131	105	61-127
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	75-116
91-20-3	Naphthalene	25	26.1	104	59-125
103-65-1	n-Propylbenzene	25	26.9	108	86-125
100-42-5	Styrene	25	26.0	104	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.0	100	81-119
71-55-6	1,1,1-Trichloroethane	25	25.2	101	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	22.4	90	71-120
79-00-5	1,1,2-Trichloroethane	25	23.5	94	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.7	107	64-126
96-18-4	1,2,3-Trichloropropane	25	22.3	89	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.1	104	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.8	99	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.8	99	83-123
127-18-4	Tetrachloroethylene	25	24.9	100	80-131
108-88-3	Toluene	25	24.4	98	86-116
79-01-6	Trichloroethylene	25	26.4	106	85-124
75-69-4	Trichlorofluoromethane	25	30.1	120	66-156
75-01-4	Vinyl chloride	25	31.6	126	57-153
108-05-4	Vinyl Acetate	125	146	117	38-159
	m,p-Xylene	50	52.6	105	86-121
95-47-6	o-Xylene	25	27.6	110	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3527-BS	B085832.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-BS	C089554.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	141	113	59-134
107-02-8	Acrolein	125	109	87	33-157
107-13-1	Acrylonitrile	125	106	85	62-124
71-43-2	Benzene	25	25.9	104	83-124
108-86-1	Bromobenzene	25	23.2	93	83-115
74-97-5	Bromochloromethane	25	23.1	92	78-112
75-27-4	Bromodichloromethane	25	25.7	103	76-116
75-25-2	Bromoform	25	23.0	92	68-128
104-51-8	n-Butylbenzene	25	25.7	103	84-124
135-98-8	sec-Butylbenzene	25	27.9	112	86-127
98-06-6	tert-Butylbenzene	25	28.3	113	83-126
108-90-7	Chlorobenzene	25	25.8	103	87-115
75-00-3	Chloroethane	25	28.1	112	54-166
67-66-3	Chloroform	25	24.7	99	85-123
95-49-8	o-Chlorotoluene	25	26.0	104	84-121
106-43-4	p-Chlorotoluene	25	27.5	110	84-120
110-75-8	2-Chloroethyl vinyl ether	125	115	92	63-125
75-15-0	Carbon disulfide	25	25.9	104	67-147
56-23-5	Carbon tetrachloride	25	27.7	111	74-139
75-34-3	1,1-Dichloroethane	25	24.9	100	82-127
75-35-4	1,1-Dichloroethylene	25	29.0	116	75-133
563-58-6	1,1-Dichloropropene	25	27.1	108	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	24.7	99	61-118
106-93-4	1,2-Dibromoethane	25	23.4	94	80-115
107-06-2	1,2-Dichloroethane	25	25.4	102	76-122
78-87-5	1,2-Dichloropropane	25	23.3	93	81-120
142-28-9	1,3-Dichloropropane	25	22.8	91	81-113
594-20-7	2,2-Dichloropropane	25	29.6	118	77-138
124-48-1	Dibromochloromethane	25	24.6	98	74-116
75-71-8	Dichlorodifluoromethane	25	29.5	118	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.4	98	83-119
541-73-1	m-Dichlorobenzene	25	25.7	103	86-115
95-50-1	o-Dichlorobenzene	25	26.0	104	85-115
106-46-7	p-Dichlorobenzene	25	23.8	95	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.2	105	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-BS	C089554.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.5	102	87-123
100-41-4	Ethylbenzene	25	25.0	100	87-118
591-78-6	2-Hexanone	125	113	90	58-125
87-68-3	Hexachlorobutadiene	25	27.7	111	71-133
98-82-8	Isopropylbenzene	25	28.5	114	87-131
99-87-6	p-Isopropyltoluene	25	26.7	107	83-125
108-10-1	4-Methyl-2-pentanone	125	113	90	62-125
74-83-9	Methyl bromide	25	27.1	108	55-151
74-87-3	Methyl chloride	25	26.7	107	55-173
74-95-3	Methylene bromide	25	23.9	96	81-116
75-09-2	Methylene chloride	25	25.9	104	69-125
78-93-3	Methyl ethyl ketone	125	117	94	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	75-116
91-20-3	Naphthalene	25	23.3	93	59-125
103-65-1	n-Propylbenzene	25	27.0	108	86-125
100-42-5	Styrene	25	25.2	101	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.8	103	81-119
71-55-6	1,1,1-Trichloroethane	25	27.2	109	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	22.2	89	71-120
79-00-5	1,1,2-Trichloroethane	25	24.8	99	80-114
87-61-6	1,2,3-Trichlorobenzene	25	23.8	95	64-126
96-18-4	1,2,3-Trichloropropane	25	22.8	91	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.1	100	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.9	100	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	83-123
127-18-4	Tetrachloroethylene	25	26.0	104	80-131
108-88-3	Toluene	25	25.3	101	86-116
79-01-6	Trichloroethylene	25	26.8	107	85-124
75-69-4	Trichlorofluoromethane	25	30.8	123	66-156
75-01-4	Vinyl chloride	25	32.7	131	57-153
108-05-4	Vinyl Acetate	125	136	109	38-159
	m,p-Xylene	50	53.5	107	86-121
95-47-6	o-Xylene	25	26.7	107	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3566-BS	C089554.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	106%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ434-BS	Z9592.D	1	09/22/12	KW	n/a	n/a	VZ434

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-35-4	1,1-Dichloroethylene	25	26.1	104	75-133

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3570-BS	C089663.D	1	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-34-3	1,1-Dichloroethane	25	24.5	98	82-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	110%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96829-7MS	Z9575.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7MSD	Z9576.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7	Z9568.D	5	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	F96829-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	165		625	738	92	743	92	1	59-134/14
107-02-8	Acrolein	130 U		625	358	57	447	72	22*	33-157/21
107-13-1	Acrylonitrile	50 U		625	532	85	574	92	8	62-124/13
71-43-2	Benzene	5.0 U		125	127	102	121	97	5	83-124/11
108-86-1	Bromobenzene	5.0 U		125	128	102	128	102	0	83-115/10
74-97-5	Bromochloromethane	5.0 U		125	114	91	111	89	3	78-112/10
75-27-4	Bromodichloromethane	5.0 U		125	110	88	106	85	4	76-116/10
75-25-2	Bromoform	5.0 U		125	82.8	66*	90.7	73	9	68-128/11
104-51-8	n-Butylbenzene	5.0 U		125	128	102	125	100	2	84-124/10
135-98-8	sec-Butylbenzene	1.1	I	125	135	107	131	104	3	86-127/10
98-06-6	tert-Butylbenzene	5.0 U		125	134	107	132	106	2	83-126/10
108-90-7	Chlorobenzene	5.0 U		125	129	103	126	101	2	87-115/9
75-00-3	Chloroethane	10 U		125	119	95	119	95	0	54-166/20
67-66-3	Chloroform	5.0 U		125	119	95	116	93	3	85-123/10
95-49-8	o-Chlorotoluene	5.0 U		125	128	102	124	99	3	84-121/10
106-43-4	p-Chlorotoluene	5.0 U		125	130	104	129	103	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	25 U		625	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	10 U		125	102	82	88.9	71	14*	67-147/12
56-23-5	Carbon tetrachloride	5.0 U		125	121	97	112	90	8	74-139/13
75-34-3	1,1-Dichloroethane	5.0 U		125	121	97	118	94	3	82-127/10
563-58-6	1,1-Dichloropropene	5.0 U		125	127	102	123	98	3	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	10 U		125	150	120*	158	126*	5	61-118/15
106-93-4	1,2-Dibromoethane	5.0 U		125	118	94	120	96	2	80-115/10
107-06-2	1,2-Dichloroethane	5.0 U		125	116	93	115	92	1	76-122/11
78-87-5	1,2-Dichloropropane	5.0 U		125	120	96	119	95	1	81-120/11
142-28-9	1,3-Dichloropropane	5.0 U		125	117	94	118	94	1	81-113/11
594-20-7	2,2-Dichloropropane	5.0 U		125	125	100	120	96	4	77-138/12
124-48-1	Dibromochloromethane	5.0 U		125	99.5	80	102	82	2	74-116/11
75-71-8	Dichlorodifluoromethane	10 U		125	120	96	114	91	5	34-158/22
156-59-2	cis-1,2-Dichloroethylene	5.0 U		125	121	97	119	95	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	5.0 U		125	103	82*	90.3	72*	13*	83-119/10
541-73-1	m-Dichlorobenzene	5.0 U		125	127	102	125	100	2	86-115/9
95-50-1	o-Dichlorobenzene	5.0 U		125	127	102	127	102	0	85-115/9
106-46-7	p-Dichlorobenzene	5.0 U		125	119	95	118	94	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	5.0 U		125	121	97	117	94	3	82-126/10
10061-02-6	trans-1,3-Dichloropropene	5.0 U		125	114	91	104	83*	9	87-123/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96829-7MS	Z9575.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7MSD	Z9576.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7	Z9568.D	5	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	F96829-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	4.6	I	125	129	100	126	97	2	87-118/10
591-78-6	2-Hexanone	50 U		625	632	101	661	106	4	58-125/14
87-68-3	Hexachlorobutadiene	10 U		125	156	125	164	131	5	71-133/12
98-82-8	Isopropylbenzene	1.6	I	125	136	108	134	106	1	87-131/10
99-87-6	p-Isopropyltoluene	5.0 U		125	130	104	127	102	2	83-125/9
108-10-1	4-Methyl-2-pentanone	25 U		625	620	99	639	102	3	62-125/13
74-83-9	Methyl bromide	10 U		125	119	95	119	95	0	55-151/21
74-87-3	Methyl chloride	10 U		125	124	99	118	94	5	55-173/22
74-95-3	Methylene bromide	10 U		125	125	100	125	100	0	81-116/10
75-09-2	Methylene chloride	25 U		125	123	98	117	94	5	69-125/11
78-93-3	Methyl ethyl ketone	30.8		625	626	95	639	97	2	61-127/13
1634-04-4	Methyl Tert Butyl Ether	5.0 U		125	115	92	117	94	2	75-116/10
91-20-3	Naphthalene	54.0		125	255	161*	291	190*	13	59-125/15
103-65-1	n-Propylbenzene	2.1	I	125	136	107	132	104	3	86-125/10
100-42-5	Styrene	5.0 U		125	92.9	74*	93.6	75*	1	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		125	121	97	120	96	1	81-119/10
71-55-6	1,1,1-Trichloroethane	5.0 U		125	122	98	120	96	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		125	135	108	137	110	1	71-120/11
79-00-5	1,1,2-Trichloroethane	5.0 U		125	133	106	131	105	2	80-114/11
87-61-6	1,2,3-Trichlorobenzene	5.0 U		125	138	110	150	120	8	64-126/16
96-18-4	1,2,3-Trichloropropane	10 U		125	135	108	140	112	4	77-115/12
120-82-1	1,2,4-Trichlorobenzene	5.0 U		125	134	107	135	108	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	4.5	I	125	125	96	123	95	2	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.2	I	125	122	96	119	93	2	83-123/10
127-18-4	Tetrachloroethylene	5.0 U		125	124	99	124	99	0	80-131/12
108-88-3	Toluene	18.2		125	141	98	138	96	2	86-116/10
79-01-6	Trichloroethylene	5.0 U		125	126	101	123	98	2	85-124/10
75-69-4	Trichlorofluoromethane	10 U		125	128	102	121	97	6	66-156/15
75-01-4	Vinyl chloride	5.0 U		125	135	108	126	101	7	57-153/22
108-05-4	Vinyl Acetate	50 U		625	657	105	657	105	0	38-159/11
	m,p-Xylene	10 U		250	254	102	249	100	2	86-121/10
95-47-6	o-Xylene	5.0 U		125	127	102	125	100	2	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96829-7MS	Z9575.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7MSD	Z9576.D	5	09/21/12	KW	n/a	n/a	VZ433
F96829-7	Z9568.D	5	09/21/12	KW	n/a	n/a	VZ433

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Surrogate Recoveries	MS	MSD	F96829-7	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	99%	76-127%
2037-26-5	Toluene-D8	101%	101%	101%	86-112%
460-00-4	4-Bromofluorobenzene	102%	103%	104%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-9MS	B085841.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9MSD	B085842.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9	B085847.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	138	110	140	112	1	59-134/14
107-02-8	Acrolein	ND		125	82.3	66	85.3	68	4	33-157/21
107-13-1	Acrylonitrile	ND		125	105	84	107	86	2	62-124/13
71-43-2	Benzene	ND		25	25.7	103	26.3	105	2	83-124/11
108-86-1	Bromobenzene	ND		25	22.9	92	24.1	96	5	83-115/10
74-97-5	Bromochloromethane	ND		25	23.2	93	24.6	98	6	78-112/10
75-27-4	Bromodichloromethane	ND		25	24.5	98	25.7	103	5	76-116/10
75-25-2	Bromoform	ND		25	23.5	94	24.1	96	3	68-128/11
104-51-8	n-Butylbenzene	ND		25	25.6	102	25.5	102	0	84-124/10
135-98-8	sec-Butylbenzene	ND		25	27.0	108	27.2	109	1	86-127/10
98-06-6	tert-Butylbenzene	ND		25	26.0	104	26.7	107	3	83-126/10
108-90-7	Chlorobenzene	ND		25	25.3	101	26.4	106	4	87-115/9
75-00-3	Chloroethane	ND		25	25.8	103	26.2	105	2	54-166/20
67-66-3	Chloroform	ND		25	23.7	95	24.9	100	5	85-123/10
95-49-8	o-Chlorotoluene	ND		25	24.6	98	25.6	102	4	84-121/10
106-43-4	p-Chlorotoluene	ND		25	26.0	104	27.1	108	4	84-120/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	42.9	34*	2.2	2*	180*	63-125/24
75-15-0	Carbon disulfide	ND		25	23.6	94	24.1	96	2	67-147/12
56-23-5	Carbon tetrachloride	ND		25	26.6	106	26.7	107	0	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	25.1	100	26.1	104	4	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	26.1	104	26.5	106	2	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	26.1	104	26.3	105	1	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.5	86	23.3	93	8	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	23.2	93	24.6	98	6	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	23.7	95	24.9	100	5	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	24.8	99	25.8	103	4	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	23.1	92	23.9	96	3	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	25.7	103	26.8	107	4	77-138/12
124-48-1	Dibromochloromethane	ND		25	24.0	96	25.1	100	4	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	21.4	86	23.3	93	9	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.9	100	26.4	106	6	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.1	92	24.6	98	6	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	25.4	102	26.0	104	2	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	25.4	102	26.2	105	3	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	22.9	92	24.4	98	6	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.1	100	26.2	105	4	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-9MS	B085841.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9MSD	B085842.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9	B085847.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.6	94	25.1	100	6	87-123/10
100-41-4	Ethylbenzene	ND		25	24.8	99	25.8	103	4	87-118/10
591-78-6	2-Hexanone	ND		125	123	98	126	101	2	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	27.0	108	24.5	98	10	71-133/12
98-82-8	Isopropylbenzene	ND		25	25.8	103	26.6	106	3	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	26.3	105	26.3	105	0	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	129	103	134	107	4	62-125/13
74-83-9	Methyl bromide	ND		25	26.0	104	26.7	107	3	55-151/21
74-87-3	Methyl chloride	ND		25	25.8	103	26.2	105	2	55-173/22
74-95-3	Methylene bromide	ND		25	23.7	95	25.0	100	5	81-116/10
75-09-2	Methylene chloride	ND		25	26.1	104	27.3	109	4	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	121	97	124	99	2	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.5	86	22.9	92	6	75-116/10
91-20-3	Naphthalene	ND		25	25.2	101	26.6	106	5	59-125/15
103-65-1	n-Propylbenzene	ND		25	26.2	105	26.9	108	3	86-125/10
100-42-5	Styrene	ND		25	25.9	104	27.1	108	5	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.3	97	25.7	103	6	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	24.5	98	25.8	103	5	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.3	93	23.9	96	3	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	23.6	94	24.2	97	3	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.7	99	26.2	105	6	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	23.7	95	24.7	99	4	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.5	98	25.7	103	5	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.1	96	24.6	98	2	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.9	96	24.4	98	2	83-123/10
127-18-4	Tetrachloroethylene	ND		25	24.7	99	25.4	102	3	80-131/12
108-88-3	Toluene	ND		25	23.8	95	24.9	100	5	86-116/10
79-01-6	Trichloroethylene	ND		25	25.8	103	26.4	106	2	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	30.0	120	29.1	116	3	66-156/15
75-01-4	Vinyl chloride	ND		25	27.2	109	27.1	108	0	57-153/22
108-05-4	Vinyl Acetate	ND		125	128	102	134	107	5	38-159/11
	m,p-Xylene	ND		50	51.2	102	53.9	108	5	86-121/10
95-47-6	o-Xylene	ND		25	26.7	107	27.9	112	4	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-9MS	B085841.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9MSD	B085842.D	1	09/21/12	WV	n/a	n/a	VB3527
F96812-9	B085847.D	1	09/21/12	WV	n/a	n/a	VB3527

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-1, F96812-2, F96812-3, F96812-4, F96812-5, F96812-6, F96812-8, F96812-9, F96812-10, F96812-11, F96812-12, F96812-13, F96812-14, F96812-15

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
1868-53-7	Dibromofluoromethane	103%	103%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	104%	76-127%
2037-26-5	Toluene-D8	99%	98%	98%	86-112%
460-00-4	4-Bromofluorobenzene	96%	97%	102%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-19MS	C089566.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19MSD	C089567.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19	C089562.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	F96812-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	146	117	127	102	14	59-134/14
107-02-8	Acrolein	ND		125	89.3	71	90.8	73	2	33-157/21
107-13-1	Acrylonitrile	ND		125	113	90	115	92	2	62-124/13
71-43-2	Benzene	ND		25	24.9	100	23.2	93	7	83-124/11
108-86-1	Bromobenzene	ND		25	21.5	86	21.0	84	2	83-115/10
74-97-5	Bromochloromethane	ND		25	21.8	87	21.2	85	3	78-112/10
75-27-4	Bromodichloromethane	ND		25	25.7	103	24.9	100	3	76-116/10
75-25-2	Bromoform	ND		25	24.2	97	22.5	90	7	68-128/11
104-51-8	n-Butylbenzene	ND		25	24.4	98	23.1	92	5	84-124/10
135-98-8	sec-Butylbenzene	ND		25	25.7	103	24.9	100	3	86-127/10
98-06-6	tert-Butylbenzene	ND		25	27.6	110	26.2	105	5	83-126/10
108-90-7	Chlorobenzene	ND		25	25.9	104	24.6	98	5	87-115/9
75-00-3	Chloroethane	ND		25	25.3	101	25.2	101	0	54-166/20
67-66-3	Chloroform	ND		25	25.3	101	24.1	96	5	85-123/10
95-49-8	o-Chlorotoluene	ND		25	24.5	98	23.6	94	4	84-121/10
106-43-4	p-Chlorotoluene	ND		25	25.7	103	25.6	102	0	84-120/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	ND		25	24.0	96	24.0	96	0	67-147/12
56-23-5	Carbon tetrachloride	ND		25	30.8	123	29.0	116	6	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	24.6	98	24.2	97	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	28.5	114	27.7	111	3	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	27.3	109	26.0	104	5	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	26.5	106	25.9	104	2	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	23.5	94	23.1	92	2	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	27.0	108	26.0	104	4	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	22.9	92	21.7	87	5	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	23.3	93	22.3	89	4	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	30.0	120	29.4	118	2	77-138/12
124-48-1	Dibromochloromethane	ND		25	24.4	98	24.8	99	2	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	27.4	110	29.9	120	9	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.5	94	22.1	88	6	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.1	92	22.9	92	1	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	24.7	99	24.2	97	2	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	24.2	97	23.9	96	1	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	22.5	90	22.3	89	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.8	107	25.2	101	6	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-19MS	C089566.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19MSD	C089567.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19	C089562.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Compound	F96812-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.4	106	25.7	103	3	87-123/10
100-41-4	Ethylbenzene	ND		25	24.7	99	23.7	95	4	87-118/10
591-78-6	2-Hexanone	ND		125	132	106	126	101	5	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	24.8	99	25.0	100	1	71-133/12
98-82-8	Isopropylbenzene	ND		25	28.2	113	27.2	109	4	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	25.3	101	24.1	96	5	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	127	102	117	94	8	62-125/13
74-83-9	Methyl bromide	ND		25	22.9	92	25.1	100	9	55-151/21
74-87-3	Methyl chloride	ND		25	21.5	86	25.4	102	17	55-173/22
74-95-3	Methylene bromide	ND		25	24.0	96	22.9	92	5	81-116/10
75-09-2	Methylene chloride	ND		25	26.3	105	26.4	106	0	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	123	98	118	94	4	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.4	98	24.5	98	0	75-116/10
91-20-3	Naphthalene	ND		25	23.1	92	23.3	93	1	59-125/15
103-65-1	n-Propylbenzene	ND		25	25.6	102	24.9	100	3	86-125/10
100-42-5	Styrene	ND		25	24.2	97	23.0	92	5	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.9	100	24.4	98	2	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	27.9	112	26.5	106	5	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.9	84	20.5	82	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	22.4	90	22.6	90	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	22.0	88	22.4	90	2	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	23.8	95	23.7	95	0	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	23.2	93	23.6	94	2	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.1	92	22.4	90	3	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	23.6	94	23.1	92	2	83-123/10
127-18-4	Tetrachloroethylene	2.0		25	28.2	105	26.5	98	6	80-131/12
108-88-3	Toluene	ND		25	23.9	96	23.4	94	2	86-116/10
79-01-6	Trichloroethylene	0.60	J	25	26.9	105	25.5	100	5	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	31.3	125	30.8	123	2	66-156/15
75-01-4	Vinyl chloride	ND		25	24.6	98	28.3	113	14	57-153/22
108-05-4	Vinyl Acetate	ND		125	148	118	143	114	3	38-159/11
	m,p-Xylene	ND		50	53.3	107	52.3	105	2	86-121/10
95-47-6	o-Xylene	ND		25	26.6	106	25.8	103	3	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-19MS	C089566.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19MSD	C089567.D	1	09/21/12	WV	n/a	n/a	VC3566
F96812-19	C089562.D	1	09/21/12	WV	n/a	n/a	VC3566

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-16, F96812-17, F96812-18, F96812-19, F96812-20, F96812-21, F96812-22

CAS No.	Surrogate Recoveries	MS	MSD	F96812-19	Limits
1868-53-7	Dibromofluoromethane	109%	108%	108%	87-116%
17060-07-0	1,2-Dichloroethane-D4	125%	119%	120%	76-127%
2037-26-5	Toluene-D8	103%	103%	104%	86-112%
460-00-4	4-Bromofluorobenzene	105%	103%	114%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96766-13MS	Z9617.D	1	09/22/12	KW	n/a	n/a	VZ434
F96766-13MSD	Z9618.D	1	09/22/12	KW	n/a	n/a	VZ434
F96766-13	Z9599.D	1	09/22/12	KW	n/a	n/a	VZ434

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-7

CAS No.	Compound	F96766-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-35-4	1,1-Dichloroethylene	1.0	U	25	26.9	108	26.6	106	1	75-133/13

CAS No.	Surrogate Recoveries	MS	MSD	F96766-13	Limits
1868-53-7	Dibromofluoromethane	100%	100%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	98%	76-127%
2037-26-5	Toluene-D8	100%	100%	102%	86-112%
460-00-4	4-Bromofluorobenzene	100%	101%	104%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97099-4MS	C089676.D	100	09/27/12	WV	n/a	n/a	VC3570
F97099-4MSD	C089677.D	100	09/27/12	WV	n/a	n/a	VC3570
F97099-4	C089671.D	100	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96812-17

CAS No.	Compound	F97099-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-34-3	1,1-Dichloroethane	100	U	2500	2430	97	2410	96	1	82-127/10

CAS No.	Surrogate Recoveries	MS	MSD	F97099-4	Limits
1868-53-7	Dibromofluoromethane	107%	107%	108%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	108%	108%	76-127%
2037-26-5	Toluene-D8	101%	102%	100%	86-112%
460-00-4	4-Bromofluorobenzene	107%	107%	108%	84-120%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025511.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025511.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025511.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	14-62%
4165-62-2	Phenol-d5	30%	10-40%
118-79-6	2,4,6-Tribromophenol	72%	33-118%
4165-60-0	Nitrobenzene-d5	61%	42-108%
321-60-8	2-Fluorobiphenyl	59%	40-106%
1718-51-0	Terphenyl-d14	87%	39-121%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025708.D	1	09/27/12	FS	09/15/12	OP43550	SX1242

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025708.D	1	09/27/12	FS	09/15/12	OP43550	SX1242

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MB	X025708.D	1	09/27/12	FS	09/15/12	OP43550	SX1242

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	14-62%
4165-62-2	Phenol-d5	22%	10-40%
118-79-6	2,4,6-Tribromophenol	64%	33-118%
4165-60-0	Nitrobenzene-d5	54%	42-108%
321-60-8	2-Fluorobiphenyl	54%	40-106%
1718-51-0	Terphenyl-d14	76%	39-121%

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-BS	X025510.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	62.4	62*	10-50
95-57-8	2-Chlorophenol	50	33.2	66	44-103
59-50-7	4-Chloro-3-methyl phenol	50	40.3	81	53-105
120-83-2	2,4-Dichlorophenol	50	36.3	73	53-108
105-67-9	2,4-Dimethylphenol	50	31.8	64	37-91
51-28-5	2,4-Dinitrophenol	100	94.8	95	37-111
534-52-1	4,6-Dinitro-o-cresol	100	99.6	100	62-115
95-48-7	2-Methylphenol	50	30.2	60	35-91
	3&4-Methylphenol	100	59.4	59	32-85
88-75-5	2-Nitrophenol	50	35.6	71	49-111
100-02-7	4-Nitrophenol	100	51.9	52	13-55
87-86-5	Pentachlorophenol	100	98.5	99	57-118
108-95-2	Phenol	50	18.1	36	13-54
95-95-4	2,4,5-Trichlorophenol	50	42.5	85	59-106
88-06-2	2,4,6-Trichlorophenol	50	40.9	82	58-107
83-32-9	Acenaphthene	50	39.8	80	58-106
208-96-8	Acenaphthylene	50	39.1	78	58-105
62-53-3	Aniline	50	32.3	65	43-98
120-12-7	Anthracene	50	43.2	86	65-108
92-87-5	Benzidine	50	30.6	61	15-73
56-55-3	Benzo(a)anthracene	50	44.1	88	63-111
50-32-8	Benzo(a)pyrene	50	42.1	84	62-106
205-99-2	Benzo(b)fluoranthene	50	45.1	90	63-109
191-24-2	Benzo(g,h,i)perylene	50	44.2	88	61-111
207-08-9	Benzo(k)fluoranthene	50	46.1	92	64-111
101-55-3	4-Bromophenyl phenyl ether	50	42.8	86	64-107
85-68-7	Butyl benzyl phthalate	50	44.7	89	59-114
100-51-6	Benzyl Alcohol	50	33.0	66	34-98
91-58-7	2-Chloronaphthalene	50	37.0	74	54-105
106-47-8	4-Chloroaniline	50	36.5	73	53-103
86-74-8	Carbazole	50	44.3	89	66-109
218-01-9	Chrysene	50	44.4	89	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	34.6	69	48-101
111-44-4	bis(2-Chloroethyl)ether	50	32.8	66	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	30.5	61	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	41.1	82	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-BS	X025510.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	29.2	58	41-102
122-66-7	1,2-Diphenylhydrazine	50	41.5	83	61-110
541-73-1	1,3-Dichlorobenzene	50	27.5	55	38-100
106-46-7	1,4-Dichlorobenzene	50	28.5	57	40-100
121-14-2	2,4-Dinitrotoluene	50	42.2	84	60-109
606-20-2	2,6-Dinitrotoluene	50	42.7	85	58-104
91-94-1	3,3'-Dichlorobenzidine	50	37.8	76	57-105
53-70-3	Dibenzo(a,h)anthracene	50	43.6	87	62-112
132-64-9	Dibenzofuran	50	42.1	84	61-108
84-74-2	Di-n-butyl phthalate	50	42.6	85	62-109
117-84-0	Di-n-octyl phthalate	50	46.5	93	60-120
84-66-2	Diethyl phthalate	50	42.9	86	62-109
131-11-3	Dimethyl phthalate	50	41.5	83	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.9	90	59-116
206-44-0	Fluoranthene	50	41.8	84	65-114
86-73-7	Fluorene	50	41.6	83	61-106
118-74-1	Hexachlorobenzene	50	43.5	87	62-107
87-68-3	Hexachlorobutadiene	50	30.1	60	38-107
77-47-4	Hexachlorocyclopentadiene	50	31.7	63	19-84
67-72-1	Hexachloroethane	50	26.9	54	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.5	89	61-113
78-59-1	Isophorone	50	29.9	60	56-111
90-12-0	1-Methylnaphthalene	50	35.5	71	52-102
91-57-6	2-Methylnaphthalene	50	35.4	71	56-112
88-74-4	2-Nitroaniline	50	44.3	89	60-109
99-09-2	3-Nitroaniline	50	40.5	81	52-107
100-01-6	4-Nitroaniline	50	45.4	91	59-111
91-20-3	Naphthalene	50	32.8	66	50-104
98-95-3	Nitrobenzene	50	33.6	67	52-105
62-75-9	N-Nitrosodimethylamine	50	24.0	48	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	37.1	74	51-104
86-30-6	N-Nitrosodiphenylamine	50	43.6	87	57-110
85-01-8	Phenanthrene	50	43.2	86	65-108
129-00-0	Pyrene	50	46.1	92	60-113
110-86-1	Pyridine	50	22.2	44	15-67
120-82-1	1,2,4-Trichlorobenzene	50	31.1	62	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-BS	X025510.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	14-62%
4165-62-2	Phenol-d5	33%	10-40%
118-79-6	2,4,6-Tribromophenol	90%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MS	X025522.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
OP43550-MSD	X025523.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
F96812-9	X025521.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	133	69*	145	75*	9	10-50/40
95-57-8	2-Chlorophenol	ND		96.2	61.3	64	61.3	64	0	44-103/29
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	68.3	71	72.0	75	5	53-105/24
120-83-2	2,4-Dichlorophenol	ND		96.2	66.0	69	67.9	71	3	53-108/26
105-67-9	2,4-Dimethylphenol	ND		96.2	57.2	59	58.8	61	3	37-91/28
51-28-5	2,4-Dinitrophenol	ND		192	162	84	176	92	8	37-111/30
534-52-1	4,6-Dinitro-o-cresol	ND		192	161	84	176	92	9	62-115/26
95-48-7	2-Methylphenol	ND		96.2	56.5	59	57.1	59	1	35-91/30
	3&4-Methylphenol	ND		192	110	57	116	60	5	32-85/29
88-75-5	2-Nitrophenol	ND		96.2	64.9	67	65.2	68	0	49-111/30
100-02-7	4-Nitrophenol	ND		192	98.7	51	116	60*	16	13-55/31
87-86-5	Pentachlorophenol	ND		192	165	86	180	94	9	57-118/26
108-95-2	Phenol	ND		96.2	36.7	38	39.3	41	7	13-54/34
95-95-4	2,4,5-Trichlorophenol	ND		96.2	71.9	75	75.3	78	5	59-106/23
88-06-2	2,4,6-Trichlorophenol	ND		96.2	70.4	73	71.5	74	2	58-107/24
83-32-9	Acenaphthene	ND		96.2	68.5	71	70.6	73	3	58-106/21
208-96-8	Acenaphthylene	ND		96.2	67.4	70	69.4	72	3	58-105/21
62-53-3	Aniline	ND		96.2	59.7	62	64.2	67	7	43-98/28
120-12-7	Anthracene	ND		96.2	71.1	74	76.5	80	7	65-108/19
92-87-5	Benzidine	ND		96.2	33.9	35	52.0	54	42*	15-73/23
56-55-3	Benzo(a)anthracene	ND		96.2	71.1	74	79.0	82	11	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	68.8	72	73.3	76	6	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	75.0	78	78.0	81	4	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	70.6	73	77.7	81	10	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	72.0	75	82.8	86	14	64-111/20
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	70.0	73	77.1	80	10	64-107/20
85-68-7	Butyl benzyl phthalate	ND		96.2	72.4	75	80.2	83	10	59-114/20
100-51-6	Benzyl Alcohol	ND		96.2	59.5	62	63.4	66	6	34-98/27
91-58-7	2-Chloronaphthalene	ND		96.2	64.5	67	66.8	69	4	54-105/24
106-47-8	4-Chloroaniline	ND		96.2	62.4	65	68.5	71	9	53-103/22
86-74-8	Carbazole	ND		96.2	72.1	75	79.9	83	10	66-109/20
218-01-9	Chrysene	ND		96.2	70.5	73	79.5	83	12	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	63.2	66	63.5	66	0	48-101/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	60.2	63	60.3	63	0	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	55.5	58	55.8	58	1	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	68.2	71	73.0	76	7	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MS	X025522.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
OP43550-MSD	X025523.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
F96812-9	X025521.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		96.2	57.5	60	57.0	59	1	41-102/28
122-66-7	1,2-Diphenylhydrazine	ND		96.2	69.1	72	74.4	77	7	61-110/20
541-73-1	1,3-Dichlorobenzene	ND		96.2	55.6	58	53.5	56	4	38-100/28
106-46-7	1,4-Dichlorobenzene	ND		96.2	57.1	59	56.2	58	2	40-100/28
121-14-2	2,4-Dinitrotoluene	ND		96.2	68.5	71	76.5	80	11	60-109/20
606-20-2	2,6-Dinitrotoluene	ND		96.2	69.6	72	75.3	78	8	58-104/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	53.7	56*	61.8	64	14	57-105/25
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	70.2	73	76.8	80	9	62-112/20
132-64-9	Dibenzofuran	ND		96.2	69.1	72	75.2	78	8	61-108/20
84-74-2	Di-n-butyl phthalate	ND		96.2	69.3	72	76.4	79	10	62-109/20
117-84-0	Di-n-octyl phthalate	ND		96.2	75.2	78	81.0	84	7	60-120/24
84-66-2	Diethyl phthalate	ND		96.2	69.7	72	76.3	79	9	62-109/19
131-11-3	Dimethyl phthalate	ND		96.2	68.2	71	74.4	77	9	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	71.5	74	79.5	83	11	59-116/21
206-44-0	Fluoranthene	ND		96.2	69.3	72	75.9	79	9	65-114/21
86-73-7	Fluorene	ND		96.2	69.0	72	73.8	77	7	61-106/19
118-74-1	Hexachlorobenzene	ND		96.2	71.5	74	77.2	80	8	62-107/20
87-68-3	Hexachlorobutadiene	ND		96.2	60.7	63	59.0	61	3	38-107/30
77-47-4	Hexachlorocyclopentadiene	ND		96.2	58.7	61	59.7	62	2	19-84/35
67-72-1	Hexachloroethane	ND		96.2	54.3	56	52.9	55	3	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	72.0	75	77.9	81	8	61-113/20
78-59-1	Isophorone	ND		96.2	52.3	54*	53.4	56	2	56-111/26
90-12-0	1-Methylnaphthalene	ND		96.2	64.8	67	64.8	67	0	52-102/25
91-57-6	2-Methylnaphthalene	ND		96.2	64.0	67	65.3	68	2	56-112/26
88-74-4	2-Nitroaniline	ND		96.2	70.5	73	76.9	80	9	60-109/20
99-09-2	3-Nitroaniline	ND		96.2	62.7	65	73.4	76	16	52-107/21
100-01-6	4-Nitroaniline	ND		96.2	69.8	73	80.1	83	14	59-111/21
91-20-3	Naphthalene	ND		96.2	62.5	65	60.9	63	3	50-104/28
98-95-3	Nitrobenzene	ND		96.2	63.8	66	62.3	65	2	52-105/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	48.1	50	49.9	52	4	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	63.3	66	65.3	68	3	51-104/28
86-30-6	N-Nitrosodiphenylamine	ND		96.2	72.0	75	78.8	82	9	57-110/19
85-01-8	Phenanthrene	ND		96.2	72.2	75	78.7	82	9	65-108/20
129-00-0	Pyrene	ND		96.2	73.6	77	81.6	85	10	60-113/20
110-86-1	Pyridine	ND		96.2	43.5	45	48.2	50	10	15-67/40
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	60.8	63	59.7	62	2	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43550-MS	X025522.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
OP43550-MSD	X025523.D	1	09/18/12	FS	09/15/12	OP43550	SX1235
F96812-9	X025521.D	1	09/18/12	FS	09/15/12	OP43550	SX1235

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
367-12-4	2-Fluorophenol	48%	50%	39%	14-62%
4165-62-2	Phenol-d5	35%	38%	25%	10-40%
118-79-6	2,4,6-Tribromophenol	78%	85%	81%	33-118%
4165-60-0	Nitrobenzene-d5	63%	63%	65%	42-108%
321-60-8	2-Fluorobiphenyl	65%	66%	63%	40-106%
1718-51-0	Terphenyl-d14	77%	87%	74%	39-121%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4794-MB	CD117568.D	1	09/19/12	CP	n/a	n/a	GCD4794

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	57-129%
98-08-8	aaa-Trifluorotoluene	99%	58-120%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4798-MB	CD117647.D	1	09/21/12	CP	n/a	n/a	GCD4798

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	111%	57-129%
98-08-8	aaa-Trifluorotoluene	102%	58-120%

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4794-BS	CD117567.D	1	09/19/12	CP	n/a	n/a	GCD4794

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-3

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.442	111	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	113%	57-129%
98-08-8	aaa-Trifluorotoluene	118%	58-120%

8.2.1

8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4798-BS	CD117646.D	1	09/21/12	CP	n/a	n/a	GCD4798

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.479	120	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-3MS	CD117580.D	1	09/19/12	CP	n/a	n/a	GCD4794
F96812-3MSD	CD117581.D	1	09/19/12	CP	n/a	n/a	GCD4794
F96812-3	CD117579.D	1	09/19/12	CP	n/a	n/a	GCD4794

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-3

CAS No.	Compound	F96812-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.388	97	0.399	100	3	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96812-3	Limits
460-00-4	4-Bromofluorobenzene	105%	111%	102%	57-129%
98-08-8	aaa-Trifluorotoluene	116%	119%	99%	58-120%

8.3.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96812-9MS	CD117654.D	1	09/21/12	CP	n/a	n/a	GCD4798
F96812-9MSD	CD117655.D	1	09/21/12	CP	n/a	n/a	GCD4798
F96812-9	CD117648.D	1	09/21/12	CP	n/a	n/a	GCD4798

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	F96812-9 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.440	110	0.440	110	0	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
460-00-4	4-Bromofluorobenzene	107%	108%	101%	57-129%
98-08-8	aaa-Trifluorotoluene	116%	119%	102%	58-120%

8.3.2

8

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-MB	ST110286.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	95%	38-127%
2051-24-3	Decachlorobiphenyl	95%	25-137%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MB	ST110373.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	106%	38-127%
2051-24-3	Decachlorobiphenyl	96%	25-137%

Method Blank Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43556-MB	NN001464.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	42-114%

9.1.3

9

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-BS	ST110285.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.6	90	76-117
11096-82-5	Aroclor 1260	4	3.6	90	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	94%	38-127%
2051-24-3	Decachlorobiphenyl	102%	25-137%

9.2.1

9

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-BS	ST110372.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.6	90	76-117
11096-82-5	Aroclor 1260	4	3.5	88	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	101%	38-127%
2051-24-3	Decachlorobiphenyl	91%	25-137%

9.2.2

9

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43556-BS	NN001463.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.820	82	60-140
	TPH (> C22-C36)	1	1.06	106	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	83%	42-114%

9.2.3

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-MS	ST110296.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
OP43572-MSD	ST110297.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
F96812-9	ST110295.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		7.84	7.4	94	7.6	97	3	76-117/16
11096-82-5	Aroclor 1260	ND		7.84	7.8	99	7.9	101	1	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
877-09-8	Tetrachloro-m-xylene	99%	102%	92%	38-127%
2051-24-3	Decachlorobiphenyl	106%	106%	84%	25-137%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MS	ST110376.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
OP43613-MSD	ST110377.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
F96920-7	ST110375.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96812-21

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		8	7.2	90	7.4	93	3	76-117/16
11096-82-5	Aroclor 1260	ND		8	7.5	94	7.8	98	4	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
877-09-8	Tetrachloro-m-xylene	97%	99%	101%	38-127%
2051-24-3	Decachlorobiphenyl	99%	103%	97%	25-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96812
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43556-MS	NN001470.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
OP43556-MSD	NN001471.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65
F96812-9	NN001469.D	1	09/20/12	NJ	09/15/12	OP43556	GNN65

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

CAS No.	Compound	F96812-9 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		1.92	1.94	101	1.73	90	11	60-140/30
	TPH (> C22-C36)	0.107	J	1.92	2.60	130	2.39	119	8	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
84-15-1	o-Terphenyl	94%	86%	93%	42-114%

9.3.3

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25	7.4	<200
Antimony	6.0	1	2	0.40	<6.0
Arsenic	10	1	2	-0.80	<10
Barium	200	1	5	0.0	<200
Beryllium	4.0	.1	1	0.0	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100	11.0	<1000
Chromium	10	1	1	0.0	<10
Cobalt	50	1	1	-0.30	<50
Copper	25	1	2	-0.20	<25
Iron	300	34	35	-2.0	<300
Lead	5.0	1	1	-1.0	<5.0
Magnesium	5000	50	100	5.3	<5000
Manganese	15	1	1	-0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2	-0.40	<40
Potassium	10000	50	500	29.3	<10000
Selenium	10	2	2	-0.30	<10
Silver	10	1	1	0.10	<10
Sodium	10000	750	1900	5.1	<10000
Strontium	10	1	1		
Thallium	10	1	1.9	0.20	<10
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	-0.30	<50
Zinc	20	1	5	0.50	<20

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12 09/17/12

Metal	F96812-9 Original	DUP	RPD	QC Limits	F96812-9 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	431	434	0.7	0-20	431	30800	27000	112.5	80-120
Antimony	3.0	2.6	14.3	0-20	3.0	574	500	114.2	80-120
Arsenic	35.5	34.4	3.1	0-20	35.5	2370	2000	116.7	80-120
Barium	41.5	39.5	4.9	0-20	41.5	2340	2000	114.9	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	55.2	50	110.4	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	50.3	50	100.6	80-120
Calcium	629000	624000	1.1	0-20	629000	620000	25000	-44.0(b)	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	523	500	104.6	80-120
Copper	0.0	0.0	NC	0-20	0.0	300	250	120.0	80-120
Iron	294	280	4.9	0-20	294	28500	26000	108.5	80-120
Lead	0.0	0.0	NC	0-20	0.0	517	500	103.4	80-120
Magnesium	148000	142000	4.1	0-20	148000	167000	25000	76.0 (b)	80-120
Manganese	428	408	4.8	0-20	428	940	500	102.4	80-120
Molybdenum	anr								
Nickel	2.6	2.4	8.0	0-20	2.6	533	500	106.1	80-120
Potassium	15900	15100	5.2	0-20	15900	43500	25000	110.4	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2420	2000	121.0N(c	80-120
Silver	0.0	0.0	NC	0-20	0.0	54.2	50	108.4	80-120
Sodium	127000	121000	0.0	0-20	127000	142000	25000	84.0	80-120
Strontium									
Thallium	0.0	1.2	200.0(a)	0-20	0.0	2050	2000	102.5	80-120
Tin									
Titanium									
Vanadium	36.2	35.1	3.1	0-20	36.2	607	500	114.2	80-120
Zinc	2.3	2.2	4.4	0-20	2.3	527	500	104.9	80-120

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12

Metal	F96812-9 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	431	30000	27000	109.5	2.6	20
Antimony	3.0	561	500	111.6	2.3	20
Arsenic	35.5	2320	2000	114.2	2.1	20
Barium	41.5	2290	2000	112.4	2.2	20
Beryllium	0.0	53.9	50	107.8	2.4	20
Cadmium	0.0	49.3	50	98.6	2.0	20
Calcium	629000	603000	25000	-112.0(a	2.8	20
Chromium	0.0	211	200	105.5	2.3	20
Cobalt	0.0	511	500	102.2	2.3	20
Copper	0.0	292	250	116.8	2.7	20
Iron	294	27700	26000	105.4	2.8	20
Lead	0.0	508	500	101.6	1.8	20
Magnesium	148000	165000	25000	68.0 (a)	1.2	20
Manganese	428	928	500	100.0	1.3	20
Molybdenum	anr					
Nickel	2.6	522	500	103.9	2.1	20
Potassium	15900	42900	25000	108.0	1.4	20
Selenium	0.0	2390	2000	119.5	1.2	20
Silver	0.0	53.9	50	107.8	0.6	20
Sodium	127000	137000	25000	64.0 (a)	3.6	20
Strontium						
Thallium	0.0	2020	2000	101.0	1.5	20
Tin						
Titanium						
Vanadium	36.2	595	500	111.8	2.0	20
Zinc	2.3	516	500	102.7	2.1	20

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27700	27000	102.6	80-120
Antimony	511	500	102.2	80-120
Arsenic	2030	2000	101.5	80-120
Barium	2160	2000	108.0	80-120
Beryllium	53.3	50	106.6	80-120
Cadmium	50.2	50	100.4	80-120
Calcium	26100	25000	104.4	80-120
Chromium	212	200	106.0	80-120
Cobalt	516	500	103.2	80-120
Copper	273	250	109.2	80-120
Iron	27400	26000	105.4	80-120
Lead	493	500	98.6	80-120
Magnesium	25800	25000	103.2	80-120
Manganese	539	500	107.8	80-120
Molybdenum	anr			
Nickel	531	500	106.2	80-120
Potassium	25900	25000	103.6	80-120
Selenium	2010	2000	100.5	80-120
Silver	48.7	50	97.4	80-120
Sodium	26000	25000	104.0	80-120
Strontium				
Thallium	2050	2000	102.5	80-120
Tin				
Titanium				
Vanadium	548	500	109.6	80-120
Zinc	521	500	104.2	80-120

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12

Metal	F96812-9 Original	SDL 1:5	%DIF	QC Limits
Aluminum	431	507	17.7 (a)	0-10
Antimony	3.00	0.00	100.0(a)	0-10
Arsenic	35.5	37.6	5.9	0-10
Barium	41.5	42.6	2.7	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	629000	660000	4.6	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	294	287	2.5	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	148000	153000	3.2	0-10
Manganese	428	459	7.4	0-10
Molybdenum	anr			
Nickel	2.60	0.00	100.0(a)	0-10
Potassium	15900	16200	1.4	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	127000	122000	1.2	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	36.2	35.2	2.8	0-10
Zinc	2.30	5.00	117.4(a)	0-10

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23674
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/17/12

Metal	Sample ml	Final ml	F96812-9 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	430.7	422.086	3203	0.2	125	2500	111.2	80-120
Antimony	9.8	10	3	2.94	116.1	0.2	5	100	113.2	80-120
Arsenic	9.8	10	35.5	34.79	149.8	0.2	5	100	115.0	80-120
Barium	9.8	10	41.5	40.67	325.3	0.2	12.5	250	113.9	80-120
Beryllium	9.8	10	0	0	56.3	0.2	2.5	50	112.6	80-120
Cadmium	9.8	10	0	0	52.3	0.2	2.5	50	104.6	80-120
Calcium	9.8	10	629000	618184	650400	0.2	250	5000	644.3*(a	80-120
Chromium	9.8	10	0	0	54.4	0.2	2.5	50	108.8	80-120
Cobalt	9.8	10	0	0	53.2	0.2	2.5	50	106.4	80-120
Copper	9.8	10	0	0	122.1	0.2	5	100	122.1*(a	80-120
Iron	9.8	10	293.8	287.924	3556	0.2	150	3000	108.9	80-120
Lead	9.8	10	0	0	50	0.2	2.5	50	100.0	80-120
Magnesium	9.8	10	148300	145334	152000	0.2	250	5000	133.3*(a	80-120
Manganese	9.8	10	427.6	419.048	471.6	0.2	2.5	50	105.1	80-120
Molybdenum										
Nickel	9.8	10	2.6	2.548	107.8	0.2	5	100	105.3	80-120
Potassium	9.8	10	15940	15621.2	27100	0.2	500	10000	114.8	80-120
Selenium	9.8	10	0	0	121.1	0.2	5	100	121.1*(a	80-120
Silver	9.8	10	0	0	54.2	0.2	2.5	50	108.4	80-120
Sodium	9.8	10	127400	118384	135200	0.2	500	10000	168.2*(a	80-120
Strontium										
Thallium	9.8	10	0	0	104.9	0.2	5	100	104.9	80-120
Tin										
Titanium										
Vanadium	9.8	10	36.2	35.476	94.5	0.2	2.5	50	118.0	80-120
Zinc	9.8	10	2.3	2.254	300.9	0.2	12.5	250	119.5	80-120

Associated samples MP23674: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23689
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/18/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.015	<1.0

Associated samples MP23689: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-1F, F96812-21, F96812-3F, F96812-5F, F96812-7F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23689
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/18/12 09/18/12

Metal	F96812-9 Original	DUP	RPD	QC Limits	F96812-9 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	3.0	3	100.0	80-120

Associated samples MP23689: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-1F, F96812-21, F96812-3F, F96812-5F, F96812-7F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23689
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/18/12

Metal	F96812-9 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	0.0	20

Associated samples MP23689: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-1F, F96812-21, F96812-3F, F96812-5F, F96812-7F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23689
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/18/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.1	3	103.3	80-120

Associated samples MP23689: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-1F, F96812-21, F96812-3F, F96812-5F, F96812-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23689
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/18/12

Metal	F96812-9 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23689: F96812-1, F96812-3, F96812-5, F96812-7, F96812-9, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-1F, F96812-21, F96812-3F, F96812-5F, F96812-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					09/19/12		09/19/12		09/19/12
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	24	25	5.0	<200				
Antimony	6.0	1	2	-1.0	<6.0				
Arsenic	10	1	2	-1.2	<10	-0.40	<10	-0.90	<10
Barium	200	4	5	-0.30	<200	-0.20	<200	-0.30	<200
Beryllium	4.0	.1	1	0.10	<4.0				
Cadmium	5.0	.1	1	0.0	<5.0	0.0	<5.0	-0.10	<5.0
Calcium	1000	50	100	8.1	<1000				
Chromium	10	1	1	0.0	<10	0.10	<10	0.0	<10
Cobalt	50	1	1	0.0	<50				
Copper	25	1	2	-0.10	<25				
Iron	300	23	35	0.10	<300				
Lead	5.0	1	1	0.40	<5.0	-0.10	<5.0	-0.60	<5.0
Magnesium	5000	50	100	-18	<5000				
Manganese	15	1	1	0.0	<15				
Molybdenum	50	1	2						
Nickel	40	1	2	-0.30	<40				
Potassium	10000	50	500	-6.2	<10000				
Selenium	10	2	2	0.40	<10	-0.40	<10	-0.80	<10
Silver	10	1	1	0.50	<10	-0.10	<10	0.0	<10
Sodium	10000	850	1900	12.5	<10000				
Strontium	10	1	1						
Thallium	10	1.5	1.9	-0.20	<10				
Tin	50	1	1						
Titanium	10	1	2						
Vanadium	50	1	1	-0.10	<50				
Zinc	20	1	5	-0.20	<20				

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/19/12 09/19/12

Metal	F96812-9F Original	DUP	RPD	QC Limits	F96812-9F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	0.00	0.0	NC	0-20	0.00	29900	27000	110.7	80-120
Antimony	2.0	1.3	42.4 (a)	0-20	2.0	587	500	117.0	80-120
Arsenic	33.4	34.7	3.8	0-20	33.4	2390	2000	117.8	80-120
Barium	34.3	35.7	4.0	0-20	34.3	2240	2000	110.3	80-120
Beryllium	0.10	0.0	200.0(a)	0-20	0.10	51.9	50	103.6	80-120
Cadmium	0.40	0.40	0.0	0-20	0.40	51.8	50	102.8	80-120
Calcium	608000	660000	8.2	0-20	608000	669000	25000	244.0(b)	80-120
Chromium	0.0	0.0	NC	0-20	0.0	212	200	106.0	80-120
Cobalt	0.0	0.0	NC	0-20	0.0	551	500	110.2	80-120
Copper	1.0	0.0	200.0(a)	0-20	1.0	279	250	111.2	80-120
Iron	0.00	0.00	NC	0-20	0.00	26800	26000	103.1	80-120
Lead	0.0	0.0	NC	0-20	0.0	492	500	98.4	80-120
Magnesium	131000	136000	3.7	0-20	131000	157000	25000	104.0	80-120
Manganese	384	398	3.6	0-20	384	908	500	104.8	80-120
Molybdenum									
Nickel	2.9	2.9	0.0	0-20	2.9	537	500	106.8	80-120
Potassium	14700	15400	4.7	0-20	14700	42900	25000	112.8	80-120
Selenium	0.0	0.0	NC	0-20	0.0	2410	2000	120.5N(c	80-120
Silver	0.0	0.0	NC	0-20	0.0	52.7	50	105.4	80-120
Sodium	122000	135000	10.1	0-20	122000	166000	25000	176.0(b)	80-120
Strontium									
Thallium	1.6	1.8	11.8	0-20	1.6	1980	2000	98.9	80-120
Tin									
Titanium									
Vanadium	31.3	32.6	4.1	0-20	31.3	580	500	109.7	80-120
Zinc	1.6	1.3	20.7 (a)	0-20	1.6	517	500	103.1	80-120

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/19/12

Metal	F96812-9F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	0.00	29600	27000	109.6	1.0	20
Antimony	2.0	580	500	115.6	1.2	20
Arsenic	33.4	2360	2000	116.3	1.3	20
Barium	34.3	2210	2000	108.8	1.3	20
Beryllium	0.10	51.2	50	102.2	1.4	20
Cadmium	0.40	51.3	50	101.8	1.0	20
Calcium	608000	615000	25000	28.0 (a)	8.4	20
Chromium	0.0	210	200	105.0	0.9	20
Cobalt	0.0	546	500	109.2	0.9	20
Copper	1.0	275	250	109.6	1.4	20
Iron	0.00	26500	26000	101.9	1.1	20
Lead	0.0	485	500	97.0	1.4	20
Magnesium	131000	155000	25000	96.0	1.3	20
Manganese	384	900	500	103.2	0.9	20
Molybdenum						
Nickel	2.9	531	500	105.6	1.1	20
Potassium	14700	42600	25000	111.6	0.7	20
Selenium	0.0	2380	2000	119.0	1.3	20
Silver	0.0	51.7	50	103.4	1.9	20
Sodium	122000	153000	25000	124.0(a)	8.2	20
Strontium						
Thallium	1.6	1950	2000	97.4	1.5	20
Tin						
Titanium						
Vanadium	31.3	574	500	108.5	1.0	20
Zinc	1.6	511	500	101.9	1.2	20

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/19/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28500	27000	105.6	80-120
Antimony	541	500	108.2	80-120
Arsenic	2130	2000	106.5	80-120
Barium	2140	2000	107.0	80-120
Beryllium	52.7	50	105.4	80-120
Cadmium	52.5	50	105.0	80-120
Calcium	26400	25000	105.6	80-120
Chromium	216	200	108.0	80-120
Cobalt	556	500	111.2	80-120
Copper	266	250	106.4	80-120
Iron	27200	26000	104.6	80-120
Lead	489	500	97.8	80-120
Magnesium	25400	25000	101.6	80-120
Manganese	530	500	106.0	80-120
Molybdenum				
Nickel	550	500	110.0	80-120
Potassium	25900	25000	103.6	80-120
Selenium	2120	2000	106.0	80-120
Silver	49.4	50	98.8	80-120
Sodium	26400	25000	105.6	80-120
Strontium				
Thallium	2050	2000	102.5	80-120
Tin				
Titanium				
Vanadium	543	500	108.6	80-120
Zinc	531	500	106.2	80-120

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/19/12

Metal	F96812-9F Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	2.00	0.00	100.0(a)	0-10
Arsenic	33.4	26.6	20.4 (a)	0-10
Barium	34.3	33.1	3.5	0-10
Beryllium	0.100	0.00	100.0(a)	0-10
Cadmium	0.400	1.10	175.0(a)	0-10
Calcium	608000	619000	1.8	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	1.00	0.00	100.0(a)	0-10
Iron	0.00	0.00	NC	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	131000	128000	2.2	0-10
Manganese	384	388	1.0	0-10
Molybdenum				
Nickel	2.90	0.00	100.0(a)	0-10
Potassium	14700	13600	7.8	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	122000	125000	2.4	0-10
Strontium				
Thallium	1.60	0.00	100.0(a)	0-10
Tin				
Titanium				
Vanadium	31.3	30.5	2.6	0-10
Zinc	1.60	0.00	100.0(a)	0-10

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23695
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/19/12

Metal	Sample ml	Final ml	F96812-9F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	0	0	2657	0.2	125	2500	106.3	80-120
Antimony	9.8	10	2	1.96	114	0.2	5	100	112.0	80-120
Arsenic	9.8	10	33.4	32.732	145.7	0.2	5	100	113.0	80-120
Barium	9.8	10	34.3	33.614	294	0.2	12.5	250	104.2	80-120
Beryllium	9.8	10	0.1	0.098	51.2	0.2	2.5	50	102.2	80-120
Cadmium	9.8	10	0.4	0.392	51.8	0.2	2.5	50	102.8	80-120
Calcium	9.8	10	607700	595546	590300	0.2	250	5000	-104.9*a	80-120
Chromium	9.8	10	0	0	51.5	0.2	2.5	50	103.0	80-120
Cobalt	9.8	10	0	0	54.8	0.2	2.5	50	109.6	80-120
Copper	9.8	10	1	0.98	110.1	0.2	5	100	109.1	80-120
Iron	9.8	10	0	0	3041	0.2	150	3000	101.4	80-120
Lead	9.8	10	0	0	48.9	0.2	2.5	50	97.8	80-120
Magnesium	9.8	10	130500	127890	132700	0.2	250	5000	96.2	80-120
Manganese	9.8	10	384.4	376.712	425.8	0.2	2.5	50	98.2	80-120
Molybdenum										
Nickel	9.8	10	2.9	2.842	105.8	0.2	5	100	103.0	80-120
Potassium	9.8	10	14730	14435.4	25380	0.2	500	10000	109.4	80-120
Selenium	9.8	10	0	0	115.5	0.2	5	100	115.5	80-120
Silver	9.8	10	0	0	51.3	0.2	2.5	50	102.6	80-120
Sodium	9.8	10	122300	119854	136100	0.2	500	10000	162.5*(a	80-120
Strontium										
Thallium	9.8	10	1.6	1.568	94.6	0.2	5	100	93.0	80-120
Tin										
Titanium										
Vanadium	9.8	10	31.3	30.674	84.5	0.2	2.5	50	107.7	80-120
Zinc	9.8	10	1.6	1.568	286.9	0.2	12.5	250	114.1	80-120

Associated samples MP23695: F96812-1F, F96812-3F, F96812-5F, F96812-7F, F96812-9F, F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23728
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:				09/22/12		09/22/12	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	1.0	.04	.05	0.018	<1.0	0.013	<1.0

Associated samples MP23728: F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23728
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/22/12 09/22/12

Metal	F97055-14F Original	DUP	RPD	QC Limits	F97055-14F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	2.7	3	90.0	80-120

Associated samples MP23728: F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23728
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/22/12

Metal	F97055-14F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.7	3	90.0	0.0	20

Associated samples MP23728: F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23728
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/22/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	80-120

Associated samples MP23728: F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23728
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/22/12

Metal	F97055-14F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23728: F96812-11F, F96812-13F, F96812-15F, F96812-17F, F96812-19F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23736
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.0039	<1.0

Associated samples MP23736: F96812-9F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23736
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/24/12 09/24/12

Metal	F96812-9F Original	DUP	RPD	QC Limits	F96812-9F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	2.8	3	93.3	80-120

Associated samples MP23736: F96812-9F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23736
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/24/12

Metal	F96812-9F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.8	3	93.3	0.0	20

Associated samples MP23736: F96812-9F, F96812-21F

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: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23736
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	80-120

Associated samples MP23736: F96812-9F, F96812-21F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

10.5.3

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SERIAL DILUTION RESULTS SUMMARY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23736
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/24/12

Metal	F96812-9F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23736: F96812-9F, F96812-21F

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN51791	100	14.0	mg/l				

Associated Samples:
Batch GN51791: F96812-1, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21, F96812-3, F96812-5, F96812-7, F96812-9
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96812
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN51791	F96812-11	mg/l	3290	3210	2.5	0-5%
Solids, Total Dissolved	GN51791	F96812-9	mg/l	3420	3420	0.0	0-5%

Associated Samples:
Batch GN51791: F96812-1, F96812-11, F96812-13, F96812-15, F96812-17, F96812-19, F96812-21, F96812-3, F96812-5, F96812-7, F96812-9
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

09/28/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F96920

Sampling Dates: 09/12/12 - 09/13/12

Report to:

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Total number of pages in report: **268**

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.

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96920

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96920-1	09/12/12	14:00	BPL	09/14/12	AQ	Ground Water	S51-MW3
F96920-1F	09/12/12	14:00	BPL	09/14/12	AQ	Groundwater Filtered	S51-MW3
F96920-2	09/12/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-3	09/12/12	14:00	BPL	09/14/12	AQ	Ground Water	S51-MW3-A
F96920-3F	09/12/12	14:00	BPL	09/14/12	AQ	Groundwater Filtered	S51-MW3-A
F96920-4	09/12/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-5	09/12/12	11:45	BPL	09/14/12	AQ	Ground Water	SS18-MW29
F96920-5F	09/12/12	11:45	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW29
F96920-6	09/12/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-7	09/12/12	14:00	BPL	09/14/12	AQ	Ground Water	SS18-MW06
F96920-7D	09/12/12	14:00	BPL	09/14/12	AQ	Water Dup/MSD	SS18-MW06
F96920-7F	09/12/12	14:00	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW06
F96920-7FD	09/12/12	14:00	BPL	09/14/12	AQ	Water Dup/MSD	SS18-MW06

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96920

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96920-7FS	09/12/12	14:00	BPL	09/14/12	AQ	Water Matrix Spike	SS18-MW06
F96920-7S	09/12/12	14:00	BPL	09/14/12	AQ	Water Matrix Spike	SS18-MW06
F96920-8	09/12/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-9	09/12/12	13:20	BPL	09/14/12	AQ	Ground Water	SS18-MW13
F96920-9F	09/12/12	13:20	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW13
F96920-10	09/13/12	00:00	BPL	09/14/12	AQ	Ground Water	SS18-MW16
F96920-10F	09/13/12	00:00	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW16
F96920-11	09/13/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-12	09/13/12	08:45	BPL	09/14/12	AQ	Ground Water	SS18-MW02
F96920-12F	09/13/12	08:45	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW02
F96920-13	09/13/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-14	09/13/12	10:40	BPL	09/14/12	AQ	Ground Water	SS18-MW30
F96920-14F	09/13/12	10:40	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW30

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96920

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96920-15	09/13/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-16	09/13/12	10:40	BPL	09/14/12	AQ	Ground Water	SS18-MW30-A
F96920-16F	09/13/12	10:40	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW30-A
F96920-17	09/13/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK
F96920-18	09/13/12	13:00	BPL	09/14/12	AQ	Ground Water	SS18-MW28
F96920-18F	09/13/12	13:00	BPL	09/14/12	AQ	Groundwater Filtered	SS18-MW28
F96920-19	09/13/12	00:00	BPL	09/14/12	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-1	**S51-MW3**					
Benzene		0.21 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		14.3	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		4.9	1.0	0.23	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		103	2.0	0.52	ug/l	SW846 8260B
p-Dichlorobenzene		0.73 J	1.0	0.23	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		5.4	1.0	0.35	ug/l	SW846 8260B
Methyl Tert Butyl Ether		1.2	1.0	0.34	ug/l	SW846 8260B
Tetrachloroethylene		26.8	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		83.2	1.0	0.26	ug/l	SW846 8260B
Vinyl chloride		0.35 J	1.0	0.22	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.160	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.162 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.112 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		26.1 J	200	25	ug/l	EPA 200.7
Arsenic		26.8	10	2.0	ug/l	EPA 200.7
Barium		14.4 J	200	5.0	ug/l	EPA 200.7
Calcium		732000	2000	200	ug/l	EPA 200.7
Iron		103 J	300	35	ug/l	EPA 200.7
Magnesium		680000	10000	200	ug/l	EPA 200.7
Manganese [a]		230	30	2.0	ug/l	EPA 200.7
Mercury		0.56 J	1.0	0.050	ug/l	EPA 245.1
Nickel		3.0 J	40	2.0	ug/l	EPA 200.7
Potassium		32100	10000	500	ug/l	EPA 200.7
Silver		1.3 J	10	1.0	ug/l	EPA 200.7
Sodium		3120000	1000000	190000	ug/l	EPA 200.7
Vanadium		99.5	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		12500	1000	100	mg/l	SM19 2540C
F96920-1F	**S51-MW3**					
Arsenic		25.6	10	2.0	ug/l	EPA 200.7
Barium		14.4 J	200	5.0	ug/l	EPA 200.7
Calcium		742000	2000	200	ug/l	EPA 200.7
Magnesium		685000	10000	200	ug/l	EPA 200.7
Manganese [a]		160	30	2.0	ug/l	EPA 200.7
Nickel		2.5 J	40	2.0	ug/l	EPA 200.7
Potassium		31200	10000	500	ug/l	EPA 200.7
Sodium		3050000	1000000	190000	ug/l	EPA 200.7
Vanadium		98.1	50	1.0	ug/l	EPA 200.7
F96920-2	**TRIP BLANK**					

No hits reported in this sample.

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-3	**S51-MW3-A**					
1,1-Dichloroethane		14.1	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		4.3	1.0	0.23	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		99.9	2.0	0.52	ug/l	SW846 8260B
p-Dichlorobenzene		0.70 J	1.0	0.23	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		4.9	1.0	0.35	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.99 J	1.0	0.34	ug/l	SW846 8260B
Tetrachloroethylene		23.8	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		71.5	1.0	0.26	ug/l	SW846 8260B
Vinyl chloride		0.28 J	1.0	0.22	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.151	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.152 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.122 J	0.24	0.096	mg/l	SW846 8015C
Arsenic		28.9	10	2.0	ug/l	EPA 200.7
Barium		14.7 J	200	5.0	ug/l	EPA 200.7
Calcium		723000	2000	200	ug/l	EPA 200.7
Iron		69.6 J	300	35	ug/l	EPA 200.7
Magnesium		664000	10000	200	ug/l	EPA 200.7
Manganese [a]		226	30	2.0	ug/l	EPA 200.7
Nickel		2.9 J	40	2.0	ug/l	EPA 200.7
Potassium		32500	10000	500	ug/l	EPA 200.7
Sodium		3250000	1000000	190000	ug/l	EPA 200.7
Vanadium		106	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		12300	1000	100	mg/l	SM19 2540C
F96920-3F	**S51-MW3-A**					
Arsenic		28.4	10	2.0	ug/l	EPA 200.7
Barium		14.8 J	200	5.0	ug/l	EPA 200.7
Calcium		752000	2000	200	ug/l	EPA 200.7
Magnesium		684000	10000	200	ug/l	EPA 200.7
Manganese [a]		190	30	2.0	ug/l	EPA 200.7
Nickel		3.2 J	40	2.0	ug/l	EPA 200.7
Potassium		32900	10000	500	ug/l	EPA 200.7
Sodium		2940000	1000000	190000	ug/l	EPA 200.7
Vanadium		107	50	1.0	ug/l	EPA 200.7
F96920-4	**TRIP BLANK**					

No hits reported in this sample.

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-5	**SS18-MW29**					
o-Chlorotoluene		0.64 J	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		0.76 J	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		0.33 J	1.0	0.23	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		2.8	1.0	0.26	ug/l	SW846 8260B
m-Dichlorobenzene		0.34 J	1.0	0.20	ug/l	SW846 8260B
o-Dichlorobenzene		1.9	1.0	0.25	ug/l	SW846 8260B
p-Dichlorobenzene		0.59 J	1.0	0.23	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		3.4	1.0	0.35	ug/l	SW846 8260B
Trichloroethylene		9.5	1.0	0.26	ug/l	SW846 8260B
1,2-Dichlorobenzene		0.98 J	4.8	0.95	ug/l	SW846 8270D
TPH (C10-C22)		0.537	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.309	0.24	0.096	mg/l	SW846 8015C
Aluminum		174 J	200	25	ug/l	EPA 200.7
Arsenic		12.7	10	2.0	ug/l	EPA 200.7
Barium		49.9 J	200	5.0	ug/l	EPA 200.7
Calcium		611000	2000	200	ug/l	EPA 200.7
Cobalt		2.1 J	50	1.0	ug/l	EPA 200.7
Iron		321	300	35	ug/l	EPA 200.7
Magnesium		199000	10000	200	ug/l	EPA 200.7
Manganese [a]		1410	30	2.0	ug/l	EPA 200.7
Nickel		4.5 J	40	2.0	ug/l	EPA 200.7
Potassium		17300	10000	500	ug/l	EPA 200.7
Sodium		234000	100000	19000	ug/l	EPA 200.7
Vanadium		1.7 J	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		3640	400	40	mg/l	SM19 2540C
F96920-5F	**SS18-MW29**					
Aluminum		95.1 J	200	25	ug/l	EPA 200.7
Arsenic		8.7 J	10	2.0	ug/l	EPA 200.7
Barium		51.1 J	200	5.0	ug/l	EPA 200.7
Calcium		611000	2000	200	ug/l	EPA 200.7
Cobalt		1.8 J	50	1.0	ug/l	EPA 200.7
Iron		195 J	300	35	ug/l	EPA 200.7
Magnesium		201000	10000	200	ug/l	EPA 200.7
Manganese [a]		1430	30	2.0	ug/l	EPA 200.7
Nickel		4.4 J	40	2.0	ug/l	EPA 200.7
Potassium		18000	10000	500	ug/l	EPA 200.7
Sodium		224000	100000	19000	ug/l	EPA 200.7
F96920-6	**TRIP BLANK**					

No hits reported in this sample.

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-7	**SS18-MW06**					
Chloroform		0.69 J	1.0	0.22	ug/l	SW846 8260B
Arsenic		18.8	10	2.0	ug/l	EPA 200.7
Barium		15.7 J	200	5.0	ug/l	EPA 200.7
Calcium		599000	1000	100	ug/l	EPA 200.7
Lead		2.1 J	5.0	1.0	ug/l	EPA 200.7
Magnesium		113000	5000	100	ug/l	EPA 200.7
Potassium		15800	10000	500	ug/l	EPA 200.7
Sodium		213000	100000	19000	ug/l	EPA 200.7
Vanadium		114	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		3390	200	20	mg/l	SM19 2540C
F96920-7F	**SS18-MW06**					
Arsenic		19.6	10	2.0	ug/l	EPA 200.7
Barium		16.7 J	200	5.0	ug/l	EPA 200.7
Calcium		606000	1000	100	ug/l	EPA 200.7
Lead		1.8 J	5.0	1.0	ug/l	EPA 200.7
Magnesium		115000	5000	100	ug/l	EPA 200.7
Potassium		16500	10000	500	ug/l	EPA 200.7
Sodium		193000	100000	19000	ug/l	EPA 200.7
Vanadium		119	50	1.0	ug/l	EPA 200.7
F96920-8	**TRIP BLANK**					
No hits reported in this sample.						
F96920-9	**SS18-MW13**					
Chloroform		2.1	1.0	0.22	ug/l	SW846 8260B
Aluminum		1970	200	25	ug/l	EPA 200.7
Arsenic		17.9	10	2.0	ug/l	EPA 200.7
Barium		45.4 J	200	5.0	ug/l	EPA 200.7
Calcium		591000	2000	200	ug/l	EPA 200.7
Chromium [a]		7.3 J	20	2.0	ug/l	EPA 200.7
Copper [a]		4.5 J	50	4.0	ug/l	EPA 200.7
Iron		1790	300	35	ug/l	EPA 200.7
Magnesium		238000	10000	200	ug/l	EPA 200.7
Manganese [a]		52.6	30	2.0	ug/l	EPA 200.7
Nickel		3.2 J	40	2.0	ug/l	EPA 200.7
Potassium		6990 J	10000	500	ug/l	EPA 200.7
Sodium		434000	100000	19000	ug/l	EPA 200.7
Vanadium		108	50	1.0	ug/l	EPA 200.7

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc [a]		15.2 J	40	10	ug/l	EPA 200.7
Solids, Total Dissolved		4710	400	40	mg/l	SM19 2540C
F96920-9F	**SS18-MW13**					
Arsenic		14.1	10	2.0	ug/l	EPA 200.7
Barium		21.2 J	200	5.0	ug/l	EPA 200.7
Calcium		559000	2000	200	ug/l	EPA 200.7
Magnesium		208000	10000	200	ug/l	EPA 200.7
Manganese [a]		8.7 J	30	2.0	ug/l	EPA 200.7
Potassium		7000 J	10000	500	ug/l	EPA 200.7
Sodium		317000	100000	19000	ug/l	EPA 200.7
Vanadium		98.2	50	1.0	ug/l	EPA 200.7
F96920-10	**SS18-MW16**					
Benzene		0.27 J	1.0	0.20	ug/l	SW846 8260B
Chloroform		1.9	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		1.2	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		2.0	1.0	0.23	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		199	2.0	0.52	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		5.5	1.0	0.35	ug/l	SW846 8260B
Tetrachloroethylene		0.83 J	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		12.9	1.0	0.26	ug/l	SW846 8260B
Vinyl chloride		0.88 J	1.0	0.22	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.141	0.10	0.050	mg/l	SW846 8015C
Aluminum		11900	200	25	ug/l	EPA 200.7
Arsenic		34.5	10	2.0	ug/l	EPA 200.7
Barium		127 J	200	5.0	ug/l	EPA 200.7
Calcium		1100000	4000	400	ug/l	EPA 200.7
Chromium [a]		23.5 J	40	4.0	ug/l	EPA 200.7
Cobalt		10.1 J	50	1.0	ug/l	EPA 200.7
Copper [a]		16.2 J	100	8.0	ug/l	EPA 200.7
Iron		9700	300	35	ug/l	EPA 200.7
Lead [a]		8.6 J	20	4.0	ug/l	EPA 200.7
Magnesium		696000	20000	400	ug/l	EPA 200.7
Manganese [a]		717	60	4.0	ug/l	EPA 200.7
Nickel		17.7 J	40	2.0	ug/l	EPA 200.7
Potassium		28200	10000	500	ug/l	EPA 200.7
Sodium		2080000	500000	95000	ug/l	EPA 200.7
Vanadium		152	50	1.0	ug/l	EPA 200.7
Zinc [a]		51.2 J	80	20	ug/l	EPA 200.7
Solids, Total Dissolved		9430	1000	100	mg/l	SM19 2540C

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-10F	**SS18-MW16**					
Arsenic		25.2	10	2.0	ug/l	EPA 200.7
Barium		21.9 J	200	5.0	ug/l	EPA 200.7
Calcium		941000	4000	400	ug/l	EPA 200.7
Cobalt		1.1 J	50	1.0	ug/l	EPA 200.7
Magnesium		691000	20000	400	ug/l	EPA 200.7
Manganese [a]		373	60	4.0	ug/l	EPA 200.7
Nickel		3.7 J	40	2.0	ug/l	EPA 200.7
Potassium		25400	10000	500	ug/l	EPA 200.7
Sodium		2190000	500000	95000	ug/l	EPA 200.7
Vanadium		127	50	1.0	ug/l	EPA 200.7
F96920-11	**TRIP BLANK**					
No hits reported in this sample.						
F96920-12	**SS18-MW02**					
Chloroform		6.9	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		2.9	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		4.3	1.0	0.23	ug/l	SW846 8260B
Aluminum		75.5 J	200	25	ug/l	EPA 200.7
Arsenic		13.3	10	2.0	ug/l	EPA 200.7
Barium		16.6 J	200	5.0	ug/l	EPA 200.7
Calcium		532000	1000	100	ug/l	EPA 200.7
Chromium		2.2 J	10	1.0	ug/l	EPA 200.7
Iron		71.6 J	300	35	ug/l	EPA 200.7
Lead		1.2 J	5.0	1.0	ug/l	EPA 200.7
Magnesium		243000	5000	100	ug/l	EPA 200.7
Manganese		1.5 J	15	1.0	ug/l	EPA 200.7
Potassium		12100	10000	500	ug/l	EPA 200.7
Sodium		271000	50000	9500	ug/l	EPA 200.7
Vanadium		82.2	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		3980	200	20	mg/l	SM19 2540C
F96920-12F	**SS18-MW02**					
Aluminum		68.1 J	200	25	ug/l	EPA 200.7
Arsenic		13.3	10	2.0	ug/l	EPA 200.7
Barium		15.2 J	200	5.0	ug/l	EPA 200.7
Calcium		503000	1000	100	ug/l	EPA 200.7
Chromium		1.5 J	10	1.0	ug/l	EPA 200.7
Magnesium		231000	5000	100	ug/l	EPA 200.7
Potassium		11700	10000	500	ug/l	EPA 200.7

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		263000	50000	9500	ug/l	EPA 200.7
Vanadium		76.3	50	1.0	ug/l	EPA 200.7
Zinc		5.3 J	20	5.0	ug/l	EPA 200.7
F96920-13	**TRIP BLANK**					
No hits reported in this sample.						
F96920-14	**SS18-MW30**					
Chloroform		3.6	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		0.83 J	1.0	0.25	ug/l	SW846 8260B
Dichlorodifluoromethane		0.85 J	2.0	0.50	ug/l	SW846 8260B
o-Dichlorobenzene [b]		0.36 J	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		3.7	1.0	0.26	ug/l	SW846 8260B
TPH (C10-C22)		0.102 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.111 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		610	200	25	ug/l	EPA 200.7
Arsenic		13.3	10	2.0	ug/l	EPA 200.7
Barium		65.7 J	200	5.0	ug/l	EPA 200.7
Calcium		1460000	5000	500	ug/l	EPA 200.7
Cobalt		3.6 J	50	1.0	ug/l	EPA 200.7
Iron		465	300	35	ug/l	EPA 200.7
Magnesium		1070000	25000	500	ug/l	EPA 200.7
Manganese [a]		932	75	5.0	ug/l	EPA 200.7
Nickel		5.7 J	40	2.0	ug/l	EPA 200.7
Potassium		33000	10000	500	ug/l	EPA 200.7
Sodium		3760000	1000000	190000	ug/l	EPA 200.7
Vanadium		18.3 J	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		20600	2000	200	mg/l	SM19 2540C
F96920-14F	**SS18-MW30**					
Arsenic		13.6	10	2.0	ug/l	EPA 200.7
Barium		58.9 J	200	5.0	ug/l	EPA 200.7
Calcium		1430000	5000	500	ug/l	EPA 200.7
Cobalt		2.9 J	50	1.0	ug/l	EPA 200.7
Magnesium		1050000	25000	500	ug/l	EPA 200.7
Manganese [a]		849	75	5.0	ug/l	EPA 200.7
Nickel		3.8 J	40	2.0	ug/l	EPA 200.7
Potassium		36300	10000	500	ug/l	EPA 200.7
Sodium		4060000	1000000	190000	ug/l	EPA 200.7
Vanadium		26.3 J	50	1.0	ug/l	EPA 200.7

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-15	**TRIP BLANK**					
No hits reported in this sample.						
F96920-16	**SS18-MW30-A**					
Chloroform		3.5	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		0.82 J	1.0	0.25	ug/l	SW846 8260B
1,2-Dichloroethane		0.26 J	1.0	0.20	ug/l	SW846 8260B
Dichlorodifluoromethane		0.83 J	2.0	0.50	ug/l	SW846 8260B
o-Dichlorobenzene [b]		0.30 J	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		3.5	1.0	0.26	ug/l	SW846 8260B
TPH (> C22-C36)		0.103 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		162 J	200	25	ug/l	EPA 200.7
Arsenic		14.0	10	2.0	ug/l	EPA 200.7
Barium		64.1 J	200	5.0	ug/l	EPA 200.7
Calcium		1500000	5000	500	ug/l	EPA 200.7
Cobalt		3.5 J	50	1.0	ug/l	EPA 200.7
Iron		128 J	300	35	ug/l	EPA 200.7
Magnesium		1110000	25000	500	ug/l	EPA 200.7
Manganese [a]		947	75	5.0	ug/l	EPA 200.7
Nickel		5.4 J	40	2.0	ug/l	EPA 200.7
Potassium		34600	10000	500	ug/l	EPA 200.7
Sodium		4150000	1000000	190000	ug/l	EPA 200.7
Vanadium		22.2 J	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		20400	2000	200	mg/l	SM19 2540C
F96920-16F	**SS18-MW30-A**					
Arsenic		13.3	10	2.0	ug/l	EPA 200.7
Barium		59.7 J	200	5.0	ug/l	EPA 200.7
Calcium		1470000	5000	500	ug/l	EPA 200.7
Cobalt		2.8 J	50	1.0	ug/l	EPA 200.7
Magnesium		1090000	25000	500	ug/l	EPA 200.7
Manganese [a]		896	75	5.0	ug/l	EPA 200.7
Nickel		3.8 J	40	2.0	ug/l	EPA 200.7
Potassium		35000	10000	500	ug/l	EPA 200.7
Sodium		4180000	1000000	190000	ug/l	EPA 200.7
Vanadium		25.1 J	50	1.0	ug/l	EPA 200.7
F96920-17	**TRIP BLANK**					
No hits reported in this sample.						

Summary of Hits

Job Number: F96920
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/12/12 thru 09/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96920-18	**SS18-MW28**					
TPH (C10-C22)		0.117 J	0.25	0.098	mg/l	SW846 8015C
TPH (> C22-C36)		0.150 J	0.25	0.098	mg/l	SW846 8015C
Aluminum		304	200	25	ug/l	EPA 200.7
Antimony		4.0 J	6.0	2.0	ug/l	EPA 200.7
Arsenic		16.3	10	2.0	ug/l	EPA 200.7
Barium		28.3 J	200	5.0	ug/l	EPA 200.7
Calcium		523000	1000	100	ug/l	EPA 200.7
Copper		2.1 J	25	2.0	ug/l	EPA 200.7
Iron		207 J	300	35	ug/l	EPA 200.7
Lead		1.3 J	5.0	1.0	ug/l	EPA 200.7
Magnesium		317000	5000	100	ug/l	EPA 200.7
Manganese		119	15	1.0	ug/l	EPA 200.7
Nickel		6.5 J	40	2.0	ug/l	EPA 200.7
Potassium		17900	10000	500	ug/l	EPA 200.7
Sodium		1150000	500000	95000	ug/l	EPA 200.7
Vanadium		75.7	50	1.0	ug/l	EPA 200.7
Solids, Total Dissolved		6400	500	50	mg/l	SM19 2540C
F96920-18F	**SS18-MW28**					
Arsenic		16.9	10	2.0	ug/l	EPA 200.7
Barium		26.5 J	200	5.0	ug/l	EPA 200.7
Calcium		513000	1000	100	ug/l	EPA 200.7
Copper		2.0 J	25	2.0	ug/l	EPA 200.7
Magnesium		304000	5000	100	ug/l	EPA 200.7
Manganese		111	15	1.0	ug/l	EPA 200.7
Nickel		6.3 J	40	2.0	ug/l	EPA 200.7
Potassium		18300	10000	500	ug/l	EPA 200.7
Selenium		2.4 J	10	2.0	ug/l	EPA 200.7
Sodium		1160000	500000	95000	ug/l	EPA 200.7
Vanadium		74.8	50	1.0	ug/l	EPA 200.7
F96920-19	**TRIP BLANK**					

No hits reported in this sample.

(a) Elevated reporting limit(s) due to matrix interference.
(b) Associated BS recovery outside control limits.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085908.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2	C089647.D	2	09/26/12	WV	n/a	n/a	VC3569

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	0.21	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	14.3	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	4.9	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	103 [b]	2.0	0.52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.73	1.0	0.23	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	5.4	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	1.2	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	26.8	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	83.2	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.35	1.0	0.22	ug/l	J
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	104%	76-127%
2037-26-5	Toluene-D8	104%	100%	86-112%
460-00-4	4-Bromofluorobenzene	118%	109%	84-120%

(a) CCV outside of control limits.
(b) Result is from Run# 2

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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004138.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

(a) Associated BS recovery outside 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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117729.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.160	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110302.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		38-127%
2051-24-3	Decachlorobiphenyl	92%		25-137%

ND = Not detected MDL - Method Detection Limit
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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:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001559.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.162	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.112	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		42-114%

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: S51-MW3
Lab Sample ID: F96920-1
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/12/12
Date Received: 09/14/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	26.1 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	26.8	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	14.4 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	732000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	103 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	680000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	230	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.56 J	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.0 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	32100	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.3 J	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	3120000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	99.5	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW3		
Lab Sample ID:	F96920-1	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	12500	1000	100	mg/l	10	09/18/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW3		
Lab Sample ID:	F96920-1F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	25.6	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	14.4 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	742000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	685000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	160	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.5 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	31200	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	3050000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	98.1	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-2	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085909.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-2	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-2	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	118%		84-120%

(a) CCV 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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085910.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2	C089648.D	2	09/26/12	WV	n/a	n/a	VC3569

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	14.1	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	4.3	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	99.9 [b]	2.0	0.52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.70	1.0	0.23	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	4.9	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	0.99	1.0	0.34	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	23.8	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	71.5	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.28	1.0	0.22	ug/l	J
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	106%	76-127%
2037-26-5	Toluene-D8	105%	102%	86-112%
460-00-4	4-Bromofluorobenzene	115%	110%	84-120%

(a) CCV outside of control limits.
(b) Result is from Run# 2

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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004139.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

(a) Associated BS recovery outside 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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117730.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.151	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110303.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		38-127%
2051-24-3	Decachlorobiphenyl	101%		25-137%

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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001560.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.152	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.122	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		42-114%

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:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	28.9	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	14.7 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	723000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	69.6 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	664000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	226	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.9 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	32500	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	3250000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	106	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW3-A		
Lab Sample ID:	F96920-3	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	12300	1000	100	mg/l	10	09/18/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	S51-MW3-A		
Lab Sample ID:	F96920-3F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	28.4	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	14.8 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	752000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	684000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	190	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.2 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	32900	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	2940000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	107	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-4	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085900.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-4	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-4	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	117%		84-120%

(a) CCV 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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085901.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	0.64	1.0	0.22	ug/l	J
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.76	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	0.33	1.0	0.23	ug/l	J
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.8	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.34	1.0	0.20	ug/l	J
95-50-1	o-Dichlorobenzene	1.9	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.59	1.0	0.23	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	3.4	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	9.5	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	119%		84-120%

(a) CCV 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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004173.D	1	09/20/12	FS	09/18/12	OP43582	ST214
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	0.98	4.8	0.95	ug/l	J
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117781.D	1	09/25/12	CP	n/a	n/a	GCD4803
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	96%		58-120%

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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110304.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		38-127%
2051-24-3	Decachlorobiphenyl	96%		25-137%

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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001561.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.537	0.24	0.096	mg/l	
	TPH (> C22-C36)	0.309	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		42-114%

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:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	174 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	12.7	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	49.9 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	611000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	2.1 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	321	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	199000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	1410	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	4.5 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	17300	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	234000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	1.7 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW29		
Lab Sample ID:	F96920-5	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3640	400	40	mg/l	4	09/18/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW29		
Lab Sample ID:	F96920-5F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	95.1 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	8.7 J	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	51.1 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	611000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.8 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	195 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	201000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	1430	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	4.4 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	18000	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	224000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-6	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085902.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-6	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-6	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	118%		84-120%

(a) CCV 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:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085905.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.69	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	119%		84-120%

(a) CCV outside of control limits.

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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:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004141.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

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E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

(a) Associated BS recovery outside control limits.

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117709.D	1	09/22/12	CP	n/a	n/a	GCD4800
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	97%		58-120%

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110375.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		38-127%
2051-24-3	Decachlorobiphenyl	97%		25-137%

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Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001562.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.26	0.11	mg/l	
	TPH (> C22-C36)	ND	0.26	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		42-114%

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Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	18.8	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	15.7 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	599000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	2.1 J	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	113000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	15800	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	213000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	114	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3390	200	20	mg/l	2	09/18/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW06		
Lab Sample ID:	F96920-7F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	19.6	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	16.7 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	606000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.8 J	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	115000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	16500	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	193000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	119	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-8	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085906.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-8	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-8	**Date Sampled:**	09/12/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	117%		84-120%

(a) CCV 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:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085907.D	1	09/25/12	WV	n/a	n/a	VB3529
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein [a]	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	2.1	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	118%		84-120%

(a) CCV 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:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117732.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		57-129%
98-08-8	aaa-Trifluorotoluene	98%		58-120%

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:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1970	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	17.9	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	45.4 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	591000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	7.3 J	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.5 J	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	1790	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	238000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	52.6	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.2 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	6990 J	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	434000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	108	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	15.2 J	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW13		
Lab Sample ID:	F96920-9	**Date Sampled:**	09/12/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	4710	400	40	mg/l	4	09/18/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW13		
Lab Sample ID:	F96920-9F	**Date Sampled:**	09/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	4.0 U	12	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	14.1	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	21.2 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	559000	2000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	2.0 U	20	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	4.0 U	50	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	2.0 U	10	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	208000	10000	200	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	8.7 J	30	2.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	7000 J	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	317000	100000	19000	ug/l	10	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	3.7 U	20	3.7	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	98.2	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	10 U	40	10	ug/l	2	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175780.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2	A0175788.D	2	09/26/12	TD	n/a	n/a	VA1110

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	0.27	1.0	0.20	ug/l	J
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	1.9	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	1.2	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	2.0	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	199 [b]	2.0	0.52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	5.5	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.83	1.0	0.25	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	12.9	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.88	1.0	0.22	ug/l	J
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	88%	87-116%
17060-07-0	1,2-Dichloroethane-D4	87%	81%	76-127%
2037-26-5	Toluene-D8	91%	92%	86-112%
460-00-4	4-Bromofluorobenzene	94%	92%	84-120%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004144.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	56%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117733.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.141	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110307.D	1	09/19/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		38-127%
2051-24-3	Decachlorobiphenyl	35%		25-137%

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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001565.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	ND	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		42-114%

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:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11900	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	8.0 U	24	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	34.5	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	127 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	4.0 U	20	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	1100000	4000	400	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	23.5 J	40	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	10.1 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	16.2 J	100	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	9700	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	8.6 J	20	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	696000	20000	400	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	717	60	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	17.7 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	28200	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	8.0 U	40	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	2080000	500000	95000	ug/l	50	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	7.4 U	40	7.4	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	152	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	51.2 J	80	20	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW16		
Lab Sample ID:	F96920-10	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	9430	1000	100	mg/l	10	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW16		
Lab Sample ID:	F96920-10F	**Date Sampled:**	09/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	8.0 U	24	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	25.2	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	21.9 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	4.0 U	20	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	941000	4000	400	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	4.0 U	40	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	1.1 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	8.0 U	100	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	4.0 U	20	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	691000	20000	400	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	373	60	4.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.7 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	25400	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	8.0 U	40	8.0	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	2190000	500000	95000	ug/l	50	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	7.4 U	40	7.4	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	127	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	20 U	80	20	ug/l	4	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-11	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175781.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-11	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-11	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175789.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	6.9	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	2.9	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	4.3	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

(a) Associated BS recovery outside control limits.

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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:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004145.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

(a) Associated BS recovery outside control limits.

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117738.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	109%		58-120%

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Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110308.D	1	09/19/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		38-127%
2051-24-3	Decachlorobiphenyl	83%		25-137%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001568.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.098	mg/l	
	TPH (> C22-C36)	ND	0.25	0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		42-114%

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Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	75.5 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	13.3	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	16.6 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	532000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	2.2 J	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	71.6 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.2 J	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	243000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	1.5 J	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	12100	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	271000	50000	9500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	82.2	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3980	200	20	mg/l	2	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW02		
Lab Sample ID:	F96920-12F	**Date Sampled:**	09/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	68.1 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	13.3	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	15.2 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	503000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	1.5 J	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 U	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	231000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	1.0 U	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	2.0 U	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	11700	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	263000	50000	9500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	76.3	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.3 J	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-13	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175790.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-13	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-13	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175791.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	3.6	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.83	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.85	2.0	0.50	ug/l	J
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	

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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	0.36	1.0	0.25	ug/l	J
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	3.7	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004146.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117744.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	98%		58-120%

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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110309.D	1	09/19/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		38-127%
2051-24-3	Decachlorobiphenyl	98%		25-137%

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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001569.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.102	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.111	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		42-114%

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:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	610	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	10 U	30	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	13.3	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	65.7 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	1460000	5000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	5.0 U	50	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	3.6 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	10 U	130	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	465	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	1070000	25000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	932	75	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	5.7 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	33000	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	10 U	50	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	3760000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	9.3 U	50	9.3	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	18.3 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	25 U	100	25	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW30		
Lab Sample ID:	F96920-14	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	20600	2000	200	mg/l	20	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW30		
Lab Sample ID:	F96920-14F	**Date Sampled:**	09/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	10 U	30	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	13.6	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	58.9 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	1430000	5000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	5.0 U	50	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	2.9 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	10 U	130	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	1050000	25000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	849	75	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.8 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	36300	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	10 U	50	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	4060000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	9.3 U	50	9.3	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	26.3 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	25 U	100	25	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-15	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175792.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-15	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-15	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175793.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	3.5	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	0.82	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.26	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.83	2.0	0.50	ug/l	J
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	

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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	0.30	1.0	0.25	ug/l	J
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	3.5	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004147.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117745.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		57-129%
98-08-8	aaa-Trifluorotoluene	97%		58-120%

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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110310.D	1	09/19/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		38-127%
2051-24-3	Decachlorobiphenyl	92%		25-137%

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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001570.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	0.103	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		42-114%

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:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	162 J	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	10 U	30	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	14.0	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	64.1 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	1500000	5000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	5.0 U	50	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	3.5 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	10 U	130	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	128 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	1110000	25000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	947	75	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	5.4 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	34600	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	10 U	50	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	4150000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	9.3 U	50	9.3	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	22.2 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	25 U	100	25	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23732
(5) Prep QC Batch: MP23737

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW30-A		
Lab Sample ID:	F96920-16	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	20400	2000	200	mg/l	20	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW30-A		
Lab Sample ID:	F96920-16F	**Date Sampled:**	09/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony [a]	10 U	30	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Arsenic	13.3	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	59.7 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Calcium	1470000	5000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium [a]	5.0 U	50	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Cobalt	2.8 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	10 U	130	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	5.0 U	25	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Magnesium	1090000	25000	500	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Manganese [a]	896	75	5.0	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	3.8 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	35000	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium [a]	10 U	50	10	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	4180000	1000000	190000	ug/l	100	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium [a]	9.3 U	50	9.3	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Vanadium	25.1 J	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc [a]	25 U	100	25	ug/l	5	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-17	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175794.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-17	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-17	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175795.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

(a) Associated BS recovery outside 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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004148.D	1	09/19/12	FS	09/18/12	OP43582	ST213
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol [a]	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

ND = Not detected MDL - Method Detection Limit
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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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline [a]	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine [a]	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117746.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		57-129%
98-08-8	aaa-Trifluorotoluene	101%		58-120%

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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110311.D	1	09/19/12	NJ	09/17/12	OP43572	GST2656
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		38-127%
2051-24-3	Decachlorobiphenyl	65%		25-137%

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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001571.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.117	0.25	0.098	mg/l	J
	TPH (> C22-C36)	0.150	0.25	0.098	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		42-114%

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:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	304	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	4.0 J	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	16.3	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	28.3 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	523000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.1 J	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	207 J	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.3 J	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	317000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	119	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	6.5 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	17900	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	1150000	500000	95000	ug/l	50	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	75.7	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23733
(5) Prep QC Batch: MP23738

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW28		
Lab Sample ID:	F96920-18	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6400	500	50	mg/l	5	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW28		
Lab Sample ID:	F96920-18F	**Date Sampled:**	09/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/14/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	25 U	200	25	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Antimony	2.0 U	6.0	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Arsenic	16.9	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Barium	26.5 J	200	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Beryllium	1.0 U	4.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cadmium	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Calcium	513000	1000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Chromium	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Cobalt	1.0 U	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Copper	2.0 J	25	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Iron	35 U	300	35	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	1.0 U	5.0	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Magnesium	304000	5000	100	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Manganese	111	15	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/24/12	09/24/12	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	6.3 J	40	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Potassium	18300	10000	500	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Selenium	2.4 J	10	2.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	1.0 U	10	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Sodium	1160000	500000	95000	ug/l	50	09/24/12	09/25/12	LM	EPA 200.7 [3]	EPA 200.7 [5]
Thallium	1.9 U	10	1.9	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Vanadium	74.8	50	1.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/24/12	09/24/12	LM	EPA 200.7 [2]	EPA 200.7 [5]

(1) Instrument QC Batch: MA10164
(2) Instrument QC Batch: MA10168
(3) Instrument QC Batch: MA10172
(4) Prep QC Batch: MP23734
(5) Prep QC Batch: MP23738

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96920-19	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0175796.D	1	09/26/12	TD	n/a	n/a	VA1110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene [a]	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96920-19	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene [a]	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate [a]	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96920-19	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

(a) Associated BS recovery outside 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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

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NV Project No: 11-0020.01.030

COC Number(1): 09132012-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	S51-MW3	S51-MW3	9/12/2012	1400	-	N	1	WG	15	X	X	X	X	X	X	X	X				1
2	Trip Blank				-	TB	1	WQ	2	X											1
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: Dissolved TAL Metals filtered in the field

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J Moore FX	9/13/12	1400	FX		10:30
2.				J Moore (ALS#)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989 5575 2635

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.8 2.6 3.0 2.4 2.6 2.8
2.6 3.0 3.0 2.8 3.2 2.8

4.1

4

F96920: Chain of Custody

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ACCUTEST LABORATORIES

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NATIONVIEW

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NV Project No: 11-0020.01.030

COC Number(1): 09132012-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS1-MW3-A	SS1-MW3	9/12/2012	1400	-	FD	1	WG	15	X	X	X	X	X	X	X	X				2
4	Trip Blank				-	TB	1	WQ	2	X											2
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/13/12	1400	FX		10:30
2.	FX			[signature] (AIS)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798955752083

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09132012-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
5	SS18-MW29	SS18-MW29	9/12/2012	1145	-	N	1	WG	15	X	X	X	X	X	X	X	X				3
6	Trip Blank				-	TB	1	WQ	2	X											3
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	9/13/12	1400	FX		10:30
2.	FX			Carpenter (AIR)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798955752462

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09132012-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW06	SS18-MW06	9/12/2012	1400	-	N	1	WG	15	X	X	X	X	X	X	X	X				4
8	Trip Blank				-	TB	1	WQ	2	X											4
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/13/12		FX		10:30
2.	FX			[signature]	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798955752646

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09132012-05
LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW06-MS	SS18-MW06	9/12/2012	1400	-	MS	1	WG	15	X	X	X	X	X	X	X	X				5
8	Trip Blank				-	TB	1	WQ	2	X											5
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished by (signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	9/13/12		1. FX		10:30
2. FX			2. [signature]	9-14-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798955752521
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09132012-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW06-MSD	SS18-MW06	9/12/2012	1400	-	SD	1	WG	15	X	X	X	X	X	X	X	X				6
8	Trip Blank				-	TB	1	WQ	2	X											6
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Jeff Moore	9/13/12	1400	FX		10:30
2.	FX			L-Lopez (ALS)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989 5575 1992

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09132012-07
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
9	SS18-MW13	SS18-MW13	9/12/2012	1320	-	N	1	WG	9	X					X	X	X				7
	Trip Blank				-	TB	1	WQ	2	X											7
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	9/13/12	1400	1. FX		10:30
2. FX			2. J. Cosme (ALSW)	9-14-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798955752657
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09132012-08
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
10	SS18-MW16	SS18-MW16	9/13/12		-	N	1	WG	15	X	X	X	X	X	X	X	X				8
11	Trip Blank				-	TB	1	WQ	2	X											8
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/13/12	1400	FX		10:30
2.	FX			[signature] (AISA)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Shipped No.:
Method of Shipment: Fed Ex
Airbill Number: 7989 5575 2543
Analytical Lab: Accutest Labs
Delivery Location: Orlando, FL
Lab Recipient:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09132012-09
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
2	SS18-MW02	SS18-MW02	9/13/12	0845	-	N	1	WG	15	X	X	X	X	X	X	X	X				9
3	Trip Blank				-	TB	1	WQ	2	X											9
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature] FX	9/13/12	0845	FX		10:30
2.				J. Crane (ALS)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Shipped No.:
Method of Shipment: Fed Ex
Airbill Number: 7989 5575 2554
Analytical Lab: Accutest Labs
Delivery Location: Orlando, FL
Lab Recipient:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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NV Project No: 11-0020.01.030

COC Number(1): 09132012-10

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
14	SS18-MW30	SS18-MW30	9/13/2012	1040	-	N	1	WG	15	X	X	X	X	X	X	X	X				10
15	Trip Blank				-	TB	1	WQ	2	X											10
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/13/12	1400	FX		10:30
2.	FX			[signature] (ALS)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 798955752679

Analytical Lab: Accutest Labs

Delivery Location: Orlando, FL

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09132012-11

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (2)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
16	SS18-MW30-A	SS18-MW30	9/13/2012	1040	-	N	1	FD	15	X	X	X	X	X	X	X	X				11
17	Trip Blank				-	TB	1	WQ	2	X											11
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	9/13/12	1400	Fx		10:30
2.	Fx			Leonard (ALSE)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 798955752738

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 09132012-12

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
18	SS18-MW28	SS18-MW28	9/13/2012	1300	-	N	1	WG	15	X	X	X	X	X	X	X	X				12
19	Trip Blank	~~SS18~~			-	TB	1	WQ	2	X											12
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/13/12	1400	FX		10:30
2.	FX			[signature] (AISE)	9-14-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Fed Ex

Analytical Lab: Accutest Labs

Lab Recipient:

Shipped No.:

Airbill Number: 7989 5575 3024

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96920 CLIENT: NATIONVIEW PROJECT: SS-18 ACM

DATE/TIME RECEIVED: 9-14-12 10:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 12

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7989 5575 2635

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: 2.4 2.2 2.6 2.0 2.2 2.4 2.2 2.6 2.6 2.4 2.8 2.4
- [ ] CORRECTED TEMPS: 2.8 2.6 3.0 2.4 2.6 2.8 2.6 3.0 3.0 2.8 3.2 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
- [X] 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 VIALS RECEIVED FOR TB ON SPM FILE 0913 2012-07

TECHNICIAN SIGNATURE/DATE 9-14-12 REVIEWER SIGNATURE/DATE 09/14/12

NF 12/10

receipt confirmation 122910.xls

4.1

4

F96920: Chain of Custody

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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

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-MB	B085892.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-MB	B085892.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.63	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-MB	B085892.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	113%	84-120%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3569-MB	C089636.D	1	09/26/12	WV	n/a	n/a	VC3569

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-3

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	111%	84-120%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-MB	A0175774.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-MB	A0175774.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-MB	A0175774.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	87-116%
17060-07-0	1,2-Dichloroethane-D4	85%	76-127%
2037-26-5	Toluene-D8	91%	86-112%
460-00-4	4-Bromofluorobenzene	93%	84-120%

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-BS	B085891.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	59-134
107-02-8	Acrolein	125	75.8	61	33-157
107-13-1	Acrylonitrile	125	81.6	65	62-124
71-43-2	Benzene	25	24.0	96	83-124
108-86-1	Bromobenzene	25	24.3	97	83-115
74-97-5	Bromochloromethane	25	21.3	85	78-112
75-27-4	Bromodichloromethane	25	26.3	105	76-116
75-25-2	Bromoform	25	21.8	87	68-128
104-51-8	n-Butylbenzene	25	25.6	102	84-124
135-98-8	sec-Butylbenzene	25	27.3	109	86-127
98-06-6	tert-Butylbenzene	25	28.1	112	83-126
108-90-7	Chlorobenzene	25	24.5	98	87-115
75-00-3	Chloroethane	25	25.7	103	54-166
67-66-3	Chloroform	25	24.0	96	85-123
95-49-8	o-Chlorotoluene	25	25.2	101	84-121
106-43-4	p-Chlorotoluene	25	26.8	107	84-120
110-75-8	2-Chloroethyl vinyl ether	125	108	86	63-125
75-15-0	Carbon disulfide	25	21.8	87	67-147
56-23-5	Carbon tetrachloride	25	25.2	101	74-139
75-34-3	1,1-Dichloroethane	25	22.2	89	82-127
75-35-4	1,1-Dichloroethylene	25	24.2	97	75-133
563-58-6	1,1-Dichloropropene	25	24.8	99	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	27.1	108	61-118
106-93-4	1,2-Dibromoethane	25	25.0	100	80-115
107-06-2	1,2-Dichloroethane	25	23.2	93	76-122
78-87-5	1,2-Dichloropropane	25	22.0	88	81-120
142-28-9	1,3-Dichloropropane	25	22.6	90	81-113
594-20-7	2,2-Dichloropropane	25	27.0	108	77-138
124-48-1	Dibromochloromethane	25	23.7	95	74-116
75-71-8	Dichlorodifluoromethane	25	35.1	140	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.3	93	83-119
541-73-1	m-Dichlorobenzene	25	26.0	104	86-115
95-50-1	o-Dichlorobenzene	25	26.0	104	85-115
106-46-7	p-Dichlorobenzene	25	23.9	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	22.4	90	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-BS	B085891.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.7	103	87-123
100-41-4	Ethylbenzene	25	24.3	97	87-118
591-78-6	2-Hexanone	125	110	88	58-125
87-68-3	Hexachlorobutadiene	25	26.3	105	71-133
98-82-8	Isopropylbenzene	25	27.1	108	87-131
99-87-6	p-Isopropyltoluene	25	29.1	116	83-125
108-10-1	4-Methyl-2-pentanone	125	108	86	62-125
74-83-9	Methyl bromide	25	27.7	111	55-151
74-87-3	Methyl chloride	25	24.8	99	55-173
74-95-3	Methylene bromide	25	21.3	85	81-116
75-09-2	Methylene chloride	25	21.2	85	69-125
78-93-3	Methyl ethyl ketone	125	95.3	76	61-127
1634-04-4	Methyl Tert Butyl Ether	25	22.0	88	75-116
91-20-3	Naphthalene	25	29.3	117	59-125
103-65-1	n-Propylbenzene	25	26.3	105	86-125
100-42-5	Styrene	25	24.6	98	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.5	102	81-119
71-55-6	1,1,1-Trichloroethane	25	26.5	106	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	71-120
79-00-5	1,1,2-Trichloroethane	25	23.4	94	80-114
87-61-6	1,2,3-Trichlorobenzene	25	27.8	111	64-126
96-18-4	1,2,3-Trichloropropane	25	25.8	103	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.8	107	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.6	98	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.2	97	83-123
127-18-4	Tetrachloroethylene	25	22.2	89	80-131
108-88-3	Toluene	25	23.2	93	86-116
79-01-6	Trichloroethylene	25	26.6	106	85-124
75-69-4	Trichlorofluoromethane	25	24.1	96	66-156
75-01-4	Vinyl chloride	25	27.7	111	57-153
108-05-4	Vinyl Acetate	125	64.7	52	38-159
	m,p-Xylene	50	49.8	100	86-121
95-47-6	o-Xylene	25	25.7	103	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3529-BS	B085891.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	111%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3569-BS	C089635.D	1	09/26/12	WV	n/a	n/a	VC3569

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	22.4	90	81-114

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	110%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-BS	A0175772.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	210	168*	59-134
107-02-8	Acrolein	125	152	122	33-157
107-13-1	Acrylonitrile	125	139	111	62-124
71-43-2	Benzene	25	27.2	109	83-124
108-86-1	Bromobenzene	25	26.8	107	83-115
74-97-5	Bromochloromethane	25	26.1	104	78-112
75-27-4	Bromodichloromethane	25	24.1	96	76-116
75-25-2	Bromoform	25	20.1	80	68-128
104-51-8	n-Butylbenzene	25	26.6	106	84-124
135-98-8	sec-Butylbenzene	25	28.7	115	86-127
98-06-6	tert-Butylbenzene	25	27.2	109	83-126
108-90-7	Chlorobenzene	25	30.2	121*	87-115
75-00-3	Chloroethane	25	31.5	126	54-166
67-66-3	Chloroform	25	26.3	105	85-123
95-49-8	o-Chlorotoluene	25	27.7	111	84-121
106-43-4	p-Chlorotoluene	25	27.7	111	84-120
110-75-8	2-Chloroethyl vinyl ether	125	119	95	63-125
75-15-0	Carbon disulfide	25	24.2	97	67-147
56-23-5	Carbon tetrachloride	25	29.7	119	74-139
75-34-3	1,1-Dichloroethane	25	26.4	106	82-127
75-35-4	1,1-Dichloroethylene	25	28.0	112	75-133
563-58-6	1,1-Dichloropropene	25	27.1	108	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	23.2	93	61-118
106-93-4	1,2-Dibromoethane	25	23.9	96	80-115
107-06-2	1,2-Dichloroethane	25	24.5	98	76-122
78-87-5	1,2-Dichloropropane	25	26.4	106	81-120
142-28-9	1,3-Dichloropropane	25	24.7	99	81-113
594-20-7	2,2-Dichloropropane	25	27.3	109	77-138
124-48-1	Dibromochloromethane	25	22.4	90	74-116
75-71-8	Dichlorodifluoromethane	25	26.8	107	34-158
156-59-2	cis-1,2-Dichloroethylene	25	25.6	102	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.3	93	83-119
541-73-1	m-Dichlorobenzene	25	27.3	109	86-115
95-50-1	o-Dichlorobenzene	25	28.9	116* [a]	85-115
106-46-7	p-Dichlorobenzene	25	27.6	110	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.2	113	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-BS	A0175772.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	87-123
100-41-4	Ethylbenzene	25	26.3	105	87-118
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	26.2	105	71-133
98-82-8	Isopropylbenzene	25	27.4	110	87-131
99-87-6	p-Isopropyltoluene	25	26.9	108	83-125
108-10-1	4-Methyl-2-pentanone	125	129	103	62-125
74-83-9	Methyl bromide	25	29.4	118	55-151
74-87-3	Methyl chloride	25	32.2	129	55-173
74-95-3	Methylene bromide	25	25.0	100	81-116
75-09-2	Methylene chloride	25	27.1	108	69-125
78-93-3	Methyl ethyl ketone	125	149	119	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-116
91-20-3	Naphthalene	25	24.8	99	59-125
103-65-1	n-Propylbenzene	25	28.7	115	86-125
100-42-5	Styrene	25	25.5	102	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.8	99	81-119
71-55-6	1,1,1-Trichloroethane	25	25.3	101	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	25.7	103	71-120
79-00-5	1,1,2-Trichloroethane	25	27.4	110	80-114
87-61-6	1,2,3-Trichlorobenzene	25	24.3	97	64-126
96-18-4	1,2,3-Trichloropropane	25	25.0	100	77-115
120-82-1	1,2,4-Trichlorobenzene	25	23.6	94	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.0	100	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.3	101	83-123
127-18-4	Tetrachloroethylene	25	26.5	106	80-131
108-88-3	Toluene	25	26.6	106	86-116
79-01-6	Trichloroethylene	25	26.9	108	85-124
75-69-4	Trichlorofluoromethane	25	23.7	95	66-156
75-01-4	Vinyl chloride	25	34.0	136	57-153
108-05-4	Vinyl Acetate	125	216	173*	38-159
	m,p-Xylene	50	52.7	105	86-121
95-47-6	o-Xylene	25	26.6	106	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1110-BS	A0175772.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	88%	87-116%
17060-07-0	1,2-Dichloroethane-D4	84%	76-127%
2037-26-5	Toluene-D8	92%	86-112%
460-00-4	4-Bromofluorobenzene	88%	84-120%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96920-7MS	B085903.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7MSD	B085904.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7	B085905.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	127	102	125	100	2	59-134/14
107-02-8	Acrolein	ND		125	61.4	49	58.1	46	6	33-157/21
107-13-1	Acrylonitrile	ND		125	89.5	72	89.0	71	1	62-124/13
71-43-2	Benzene	ND		25	25.2	101	24.4	98	3	83-124/11
108-86-1	Bromobenzene	ND		25	24.0	96	23.8	95	1	83-115/10
74-97-5	Bromochloromethane	ND		25	20.9	84	20.8	83	0	78-112/10
75-27-4	Bromodichloromethane	ND		25	25.7	103	24.6	98	4	76-116/10
75-25-2	Bromoform	ND		25	20.9	84	20.7	83	1	68-128/11
104-51-8	n-Butylbenzene	ND		25	26.8	107	25.5	102	5	84-124/10
135-98-8	sec-Butylbenzene	ND		25	27.8	111	26.9	108	3	86-127/10
98-06-6	tert-Butylbenzene	ND		25	28.2	113	27.5	110	3	83-126/10
108-90-7	Chlorobenzene	ND		25	24.6	98	24.2	97	2	87-115/9
75-00-3	Chloroethane	ND		25	25.2	101	24.7	99	2	54-166/20
67-66-3	Chloroform	0.69	J	25	24.5	95	24.2	94	1	85-123/10
95-49-8	o-Chlorotoluene	ND		25	25.8	103	25.4	102	2	84-121/10
106-43-4	p-Chlorotoluene	ND		25	27.9	112	27.0	108	3	84-120/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	ND		25	22.8	91	22.1	88	3	67-147/12
56-23-5	Carbon tetrachloride	ND		25	22.9	92	22.4	90	2	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	23.2	93	22.4	90	4	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	23.8	95	22.9	92	4	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	24.9	100	23.9	96	4	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	28.4	114	28.0	112	1	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	26.0	104	25.2	101	3	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	22.5	90	22.4	90	0	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	23.6	94	23.3	93	1	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	24.5	98	23.6	94	4	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	23.9	96	22.8	91	5	77-138/12
124-48-1	Dibromochloromethane	ND		25	23.5	94	23.0	92	2	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	35.2	141	35.0	140	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.7	99	24.5	98	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.4	94	22.5	90	4	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	25.7	103	25.3	101	2	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	25.8	103	25.4	102	2	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	23.9	96	23.6	94	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.9	92	22.4	90	2	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96920-7MS	B085903.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7MSD	B085904.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7	B085905.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.3	101	24.9	100	2	87-123/10
100-41-4	Ethylbenzene	ND		25	24.7	99	24.6	98	0	87-118/10
591-78-6	2-Hexanone	ND		125	135	108	134	107	1	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	25.5	102	24.4	98	4	71-133/12
98-82-8	Isopropylbenzene	ND		25	27.2	109	26.4	106	3	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	28.5	114	27.6	110	3	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	130	104	128	102	2	62-125/13
74-83-9	Methyl bromide	ND		25	26.9	108	26.4	106	2	55-151/21
74-87-3	Methyl chloride	ND		25	27.7	111	27.5	110	1	55-173/22
74-95-3	Methylene bromide	ND		25	21.6	86	21.2	85	2	81-116/10
75-09-2	Methylene chloride	ND		25	23.1	92	22.2	89	4	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	111	89	109	87	2	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.6	86	21.5	86	0	75-116/10
91-20-3	Naphthalene	ND		25	29.9	120	30.7	123	3	59-125/15
103-65-1	n-Propylbenzene	ND		25	27.3	109	26.6	106	3	86-125/10
100-42-5	Styrene	ND		25	24.0	96	23.3	93	3	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.8	99	24.5	98	1	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	24.5	98	23.9	96	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.3	105	25.7	103	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	25.6	102	24.9	100	3	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.4	110	27.8	111	1	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	27.0	108	26.7	107	1	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.0	104	26.1	104	0	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.7	99	24.2	97	2	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.5	98	23.7	95	3	83-123/10
127-18-4	Tetrachloroethylene	ND		25	21.8	87	21.0	84	4	80-131/12
108-88-3	Toluene	ND		25	23.7	95	23.1	92	3	86-116/10
79-01-6	Trichloroethylene	ND		25	26.3	105	25.7	103	2	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	25.3	101	24.1	96	5	66-156/15
75-01-4	Vinyl chloride	ND		25	28.0	112	28.0	112	0	57-153/22
108-05-4	Vinyl Acetate	ND		125	68.7	55	67.3	54	2	38-159/11
	m,p-Xylene	ND		50	50.0	100	49.4	99	1	86-121/10
95-47-6	o-Xylene	ND		25	26.3	105	25.8	103	2	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96920-7MS	B085903.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7MSD	B085904.D	1	09/25/12	WV	n/a	n/a	VB3529
F96920-7	B085905.D	1	09/25/12	WV	n/a	n/a	VB3529

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-2, F96920-3, F96920-4, F96920-5, F96920-6, F96920-7, F96920-8, F96920-9

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
1868-53-7	Dibromofluoromethane	94%	94%	92%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	98%	76-127%
2037-26-5	Toluene-D8	104%	103%	105%	86-112%
460-00-4	4-Bromofluorobenzene	114%	114%	119%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97191-2MS	C089645.D	1	09/26/12	WV	n/a	n/a	VC3569
F97191-2MSD	C089646.D	1	09/26/12	WV	n/a	n/a	VC3569
F97191-2	C089641.D	1	09/26/12	WV	n/a	n/a	VC3569

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-1, F96920-3

CAS No.	Compound	F97191-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	1.0	U	25	22.2	89	23.2	93	4	81-114/10

CAS No.	Surrogate Recoveries	MS	MSD	F97191-2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	102%	103%	76-127%
2037-26-5	Toluene-D8	102%	103%	102%	86-112%
460-00-4	4-Bromofluorobenzene	110%	108%	108%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96890-2MS	A0175785.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2MSD	A0175786.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2	A0175776.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	F96890-2 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	122	98	126	101	3	59-134/14
107-02-8	Acrolein	25 U		125	137	110	130	104	5	33-157/21
107-13-1	Acrylonitrile	10 U		125	141	113	143	114	1	62-124/13
71-43-2	Benzene	1.0 U		25	28.7	115	26.8	107	7	83-124/11
108-86-1	Bromobenzene	1.0 U		25	27.9	112	26.6	106	5	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	27.0	108	26.1	104	3	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	24.6	98	23.3	93	5	76-116/10
75-25-2	Bromoform	1.0 U		25	18.2	73	17.8	71	2	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	29.6	118	27.1	108	9	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	31.5	126	28.6	114	10	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	29.5	118	26.6	106	10	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	31.6	126*	30.0	120*	5	87-115/9
75-00-3	Chloroethane	2.0 U		25	34.0	136	31.8	127	7	54-166/20
67-66-3	Chloroform	1.0 U		25	27.4	110	25.6	102	7	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	29.2	117	27.0	108	8	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	29.2	117	27.2	109	7	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	25.4	102	23.0	92	10	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	30.2	121	27.1	108	11	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	27.3	109	25.5	102	7	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	29.3	117	26.4	106	10	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	28.9	116	26.3	105	9	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	26.0	104	26.2	105	1	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	24.7	99	24.9	100	1	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	25.4	102	24.7	99	3	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	27.6	110	26.4	106	4	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	25.5	102	25.0	100	2	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	30.3	121	27.5	110	10	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	21.8	87	20.8	83	5	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	37.0	148	34.4	138	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	27.1	108	25.3	101	7	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	17.6	70*	16.0	64*	10	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	29.2	117*	27.2	109	7	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	30.8	123*	29.1	116*	6	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	29.2	117*	27.3	109	7	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	29.6	118	27.2	109	8	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96890-2MS	A0175785.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2MSD	A0175786.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2	A0175776.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Compound	F96890-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	18.1	72*	16.6	66*	9	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	28.0	112	26.0	104	7	87-118/10
591-78-6	2-Hexanone	10 U		125	130	104	131	105	1	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	28.2	113	25.1	100	12	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	29.5	118	27.4	110	7	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	29.1	116	26.5	106	9	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	142	114	143	114	1	62-125/13
74-83-9	Methyl bromide	2.0 U		25	28.5	114	27.1	108	5	55-151/21
74-87-3	Methyl chloride	2.0 U		25	26.6	106	29.2	117	9	55-173/22
74-95-3	Methylene bromide	2.0 U		25	25.9	104	25.6	102	1	81-116/10
75-09-2	Methylene chloride	5.0 U		25	27.6	110	26.5	106	4	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	134	107	130	104	3	61-127/13
1634-04-4	Methyl Tert Butyl Ether	0.44	I	25	25.3	99	24.9	98	2	75-116/10
91-20-3	Naphthalene	15.0		25	46.9	128*	43.2	113	8	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	31.1	124	28.4	114	9	86-125/10
100-42-5	Styrene	1.0 U		25	22.9	92	22.3	89	3	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	25.4	102	24.2	97	5	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	26.7	107	24.6	98	8	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	27.1	108	27.1	108	0	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	28.1	112	27.8	111	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	25.2	101	23.4	94	7	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	26.0	104	25.9	104	0	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	25.2	101	23.3	93	8	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	27.0	108	25.0	100	8	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	27.0	108	24.9	100	8	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	28.4	114	26.1	104	8	80-131/12
108-88-3	Toluene	1.0 U		25	28.2	113	26.3	105	7	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	28.3	113	26.3	105	7	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	25.1	100	23.5	94	7	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	32.3	129	32.8	131	2	57-153/22
108-05-4	Vinyl Acetate	10 U		125	232	186*	226	181*	3	38-159/11
	m,p-Xylene	2.0 U		50	56.1	112	51.9	104	8	86-121/10
95-47-6	o-Xylene	1.0 U		25	28.3	113	26.5	106	7	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96890-2MS	A0175785.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2MSD	A0175786.D	1	09/26/12	TD	n/a	n/a	VA1110
F96890-2	A0175776.D	1	09/26/12	TD	n/a	n/a	VA1110

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96920-10, F96920-11, F96920-12, F96920-13, F96920-14, F96920-15, F96920-16, F96920-17, F96920-18, F96920-19

CAS No.	Surrogate Recoveries	MS	MSD	F96890-2	Limits
1868-53-7	Dibromofluoromethane	88%	88%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	84%	83%	94%	76-127%
2037-26-5	Toluene-D8	91%	91%	90%	86-112%
460-00-4	4-Bromofluorobenzene	89%	88%	94%	84-120%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004131.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004131.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004131.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	55%	14-62%
4165-62-2	Phenol-d5	42%* [a]	10-40%
118-79-6	2,4,6-Tribromophenol	77%	33-118%
4165-60-0	Nitrobenzene-d5	90%	42-108%
321-60-8	2-Fluorobiphenyl	75%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

(a) Outside control limits.

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059496.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059496.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059496.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-62%
4165-62-2	Phenol-d5	37%	10-40%
118-79-6	2,4,6-Tribromophenol	77%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004172.D	1	09/20/12	FS	09/18/12	OP43582	ST214

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004172.D	1	09/20/12	FS	09/18/12	OP43582	ST214

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	T004172.D	1	09/20/12	FS	09/18/12	OP43582	ST214

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	54%	14-62%
4165-62-2	Phenol-d5	45%* [a]	10-40%
118-79-6	2,4,6-Tribromophenol	80%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	91%	39-121%

(a) Outside control limits.

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059507.D	1	09/21/12	NAF	09/18/12	OP43582	SL3031

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059507.D	1	09/21/12	NAF	09/18/12	OP43582	SL3031

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059507.D	1	09/21/12	NAF	09/18/12	OP43582	SL3031

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	14-62%
4165-62-2	Phenol-d5	30%	10-40%
118-79-6	2,4,6-Tribromophenol	68%	33-118%
4165-60-0	Nitrobenzene-d5	71%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	78%	39-121%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MB	L059522.D	1	09/21/12	NAF	09/18/12	OP43582	SL3032

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	T004130.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	3330	1310	39	10-50
95-57-8	2-Chlorophenol	1670	1240	74	44-103
59-50-7	4-Chloro-3-methyl phenol	1670	1350	81	53-105
120-83-2	2,4-Dichlorophenol	1670	1200	72	53-108
105-67-9	2,4-Dimethylphenol	1670	1120	67	37-91
51-28-5	2,4-Dinitrophenol	3330	3190	96	37-111
534-52-1	4,6-Dinitro-o-cresol	3330	2860	86	62-115
95-48-7	2-Methylphenol	1670	1200	72	35-91
	3&4-Methylphenol	3330	1980	59	32-85
88-75-5	2-Nitrophenol	1670	1260	76	49-111
100-02-7	4-Nitrophenol	3330	2290	69*	13-55
87-86-5	Pentachlorophenol	3330	3010	90	57-118
108-95-2	Phenol	1670	717	43	13-54
95-95-4	2,4,5-Trichlorophenol	1670	1460	88	59-106
88-06-2	2,4,6-Trichlorophenol	1670	1410	85	58-107
83-32-9	Acenaphthene	1670	1370	82	58-106
208-96-8	Acenaphthylene	1670	1390	83	58-105
62-53-3	Aniline	1670	1070	64	43-98
120-12-7	Anthracene	1670	1320	79	65-108
92-87-5	Benzidine	1670	1120	67	15-73
56-55-3	Benzo(a)anthracene	1670	1400	84	63-111
50-32-8	Benzo(a)pyrene	1670	1290	77	62-106
205-99-2	Benzo(b)fluoranthene	1670	1410	85	63-109
191-24-2	Benzo(g,h,i)perylene	1670	1490	89	61-111
207-08-9	Benzo(k)fluoranthene	1670	1330	80	64-111
101-55-3	4-Bromophenyl phenyl ether	1670	1280	77	64-107
85-68-7	Butyl benzyl phthalate	1670	1400	84	59-114
100-51-6	Benzyl Alcohol	1670	1280	77	34-98
91-58-7	2-Chloronaphthalene	1670	1250	75	54-105
106-47-8	4-Chloroaniline	1670	1160	70	53-103
86-74-8	Carbazole	1670	1390	83	66-109
218-01-9	Chrysene	1670	1370	82	64-111
111-91-1	bis(2-Chloroethoxy)methane	1670	1220	73	48-101
111-44-4	bis(2-Chloroethyl)ether	1670	1250	75	51-108
108-60-1	bis(2-Chloroisopropyl)ether	1670	1540	92	43-106
7005-72-3	4-Chlorophenyl phenyl ether	1670	1400	84	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	T004130.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	1670	1210	73	41-102
122-66-7	1,2-Diphenylhydrazine	1670	1480	89	61-110
541-73-1	1,3-Dichlorobenzene	1670	1160	70	38-100
106-46-7	1,4-Dichlorobenzene	1670	1160	70	40-100
121-14-2	2,4-Dinitrotoluene	1670	1520	91	60-109
606-20-2	2,6-Dinitrotoluene	1670	1530	92	58-104
91-94-1	3,3'-Dichlorobenzidine	1670	1320	79	57-105
53-70-3	Dibenzo(a,h)anthracene	1670	1460	88	62-112
132-64-9	Dibenzofuran	1670	1350	81	61-108
84-74-2	Di-n-butyl phthalate	1670	1460	88	62-109
117-84-0	Di-n-octyl phthalate	1670	1390	83	60-120
84-66-2	Diethyl phthalate	1670	1510	91	62-109
131-11-3	Dimethyl phthalate	1670	1410	85	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1420	85	59-116
206-44-0	Fluoranthene	1670	1450	87	65-114
86-73-7	Fluorene	1670	1360	82	61-106
118-74-1	Hexachlorobenzene	1670	1270	76	62-107
87-68-3	Hexachlorobutadiene	1670	1120	67	38-107
77-47-4	Hexachlorocyclopentadiene	1670	1200	72	19-84
67-72-1	Hexachloroethane	1670	1320	79	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1440	86	61-113
78-59-1	Isophorone	1670	1120	67	56-111
90-12-0	1-Methylnaphthalene	1670	1140	68	52-102
91-57-6	2-Methylnaphthalene	1670	1120	67	56-112
88-74-4	2-Nitroaniline	1670	1890	113*	60-109
99-09-2	3-Nitroaniline	1670	1390	83	52-107
100-01-6	4-Nitroaniline	1670	1620	97	59-111
91-20-3	Naphthalene	1670	938	56	50-104
98-95-3	Nitrobenzene	1670	1340	80	52-105
62-75-9	N-Nitrosodimethylamine	1670	1300	78*	20-71
621-64-7	N-Nitroso-di-n-propylamine	1670	1210	73	51-104
86-30-6	N-Nitrosodiphenylamine	1670	1270	76	57-110
85-01-8	Phenanthrene	1670	1350	81	65-108
129-00-0	Pyrene	1670	1280	77	60-113
110-86-1	Pyridine	1670	845	51	15-67
120-82-1	1,2,4-Trichlorobenzene	1670	1100	66	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	T004130.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	54%	14-62%
4165-62-2	Phenol-d5	36%	10-40%
118-79-6	2,4,6-Tribromophenol	73%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	78%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	L059497.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	33.0	33	10-50
95-57-8	2-Chlorophenol	50	33.5	67	44-103
59-50-7	4-Chloro-3-methyl phenol	50	35.1	70	53-105
120-83-2	2,4-Dichlorophenol	50	32.8	66	53-108
105-67-9	2,4-Dimethylphenol	50	27.5	55	37-91
51-28-5	2,4-Dinitrophenol	100	74.6	75	37-111
534-52-1	4,6-Dinitro-o-cresol	100	87.1	87	62-115
95-48-7	2-Methylphenol	50	30.5	61	35-91
	3&4-Methylphenol	100	57.6	58	32-85
88-75-5	2-Nitrophenol	50	34.0	68	49-111
100-02-7	4-Nitrophenol	100	48.7	49	13-55
87-86-5	Pentachlorophenol	100	82.5	83	57-118
108-95-2	Phenol	50	20.5	41	13-54
95-95-4	2,4,5-Trichlorophenol	50	37.9	76	59-106
88-06-2	2,4,6-Trichlorophenol	50	37.9	76	58-107
83-32-9	Acenaphthene	50	37.1	74	58-106
208-96-8	Acenaphthylene	50	36.7	73	58-105
62-53-3	Aniline	50	33.0	66	43-98
120-12-7	Anthracene	50	38.4	77	65-108
92-87-5	Benzidine	50	30.6	61	15-73
56-55-3	Benzo(a)anthracene	50	40.9	82	63-111
50-32-8	Benzo(a)pyrene	50	40.5	81	62-106
205-99-2	Benzo(b)fluoranthene	50	39.1	78	63-109
191-24-2	Benzo(g,h,i)perylene	50	43.2	86	61-111
207-08-9	Benzo(k)fluoranthene	50	41.6	83	64-111
101-55-3	4-Bromophenyl phenyl ether	50	39.3	79	64-107
85-68-7	Butyl benzyl phthalate	50	40.3	81	59-114
100-51-6	Benzyl Alcohol	50	33.0	66	34-98
91-58-7	2-Chloronaphthalene	50	34.8	70	54-105
106-47-8	4-Chloroaniline	50	31.4	63	53-103
86-74-8	Carbazole	50	39.8	80	66-109
218-01-9	Chrysene	50	41.1	82	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	30.5	61	48-101
111-44-4	bis(2-Chloroethyl)ether	50	34.2	68	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	32.3	65	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	38.2	76	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	L059497.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	32.6	65	41-102
122-66-7	1,2-Diphenylhydrazine	50	38.0	76	61-110
541-73-1	1,3-Dichlorobenzene	50	31.5	63	38-100
106-46-7	1,4-Dichlorobenzene	50	32.0	64	40-100
121-14-2	2,4-Dinitrotoluene	50	42.1	84	60-109
606-20-2	2,6-Dinitrotoluene	50	40.6	81	58-104
91-94-1	3,3'-Dichlorobenzidine	50	37.5	75	57-105
53-70-3	Dibenzo(a,h)anthracene	50	46.3	93	62-112
132-64-9	Dibenzofuran	50	38.4	77	61-108
84-74-2	Di-n-butyl phthalate	50	38.8	78	62-109
117-84-0	Di-n-octyl phthalate	50	40.2	80	60-120
84-66-2	Diethyl phthalate	50	39.0	78	62-109
131-11-3	Dimethyl phthalate	50	37.2	74	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.3	83	59-116
206-44-0	Fluoranthene	50	38.4	77	65-114
86-73-7	Fluorene	50	38.2	76	61-106
118-74-1	Hexachlorobenzene	50	37.9	76	62-107
87-68-3	Hexachlorobutadiene	50	30.5	61	38-107
77-47-4	Hexachlorocyclopentadiene	50	33.3	67	19-84
67-72-1	Hexachloroethane	50	32.3	65	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.0	84	61-113
78-59-1	Isophorone	50	26.7	53* [a]	56-111
90-12-0	1-Methylnaphthalene	50	31.9	64	52-102
91-57-6	2-Methylnaphthalene	50	31.8	64	56-112
88-74-4	2-Nitroaniline	50	42.0	84	60-109
99-09-2	3-Nitroaniline	50	37.7	75	52-107
100-01-6	4-Nitroaniline	50	42.5	85	59-111
91-20-3	Naphthalene	50	28.8	58	50-104
98-95-3	Nitrobenzene	50	31.5	63	52-105
62-75-9	N-Nitrosodimethylamine	50	26.2	52	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	33.1	66	51-104
86-30-6	N-Nitrosodiphenylamine	50	38.8	78	57-110
85-01-8	Phenanthrene	50	38.9	78	65-108
129-00-0	Pyrene	50	38.6	77	60-113
110-86-1	Pyridine	50	24.2	48	15-67
120-82-1	1,2,4-Trichlorobenzene	50	30.2	60	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-BS	L059497.D	1	09/20/12	NAF	09/18/12	OP43582	SL3030

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	14-62%
4165-62-2	Phenol-d5	39%	10-40%
118-79-6	2,4,6-Tribromophenol	80%	33-118%
4165-60-0	Nitrobenzene-d5	63%	42-108%
321-60-8	2-Fluorobiphenyl	69%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MS	T004142.D	1	09/19/12	FS	09/18/12	OP43582	ST213
OP43582-MSD	T004143.D	1	09/19/12	FS	09/18/12	OP43582	ST213
F96920-7	T004141.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	80.8	42	103	54*	24	10-50/40
95-57-8	2-Chlorophenol	ND		96.2	65.6	68	77.6	81	17	44-103/29
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	65.7	68	81.1	84	21	53-105/24
120-83-2	2,4-Dichlorophenol	ND		96.2	60.3	63	72.7	76	19	53-108/26
105-67-9	2,4-Dimethylphenol	ND		96.2	56.0	58	69.4	72	21	37-91/28
51-28-5	2,4-Dinitrophenol	ND		192	176	92	199	103	12	37-111/30
534-52-1	4,6-Dinitro-o-cresol	ND		192	153	80	188	98	21	62-115/26
95-48-7	2-Methylphenol	ND		96.2	62.9	65	76.1	79	19	35-91/30
	3&4-Methylphenol	ND		192	114	59	137	71	18	32-85/29
88-75-5	2-Nitrophenol	ND		96.2	60.1	63	76.5	80	24	49-111/30
100-02-7	4-Nitrophenol	ND		192	118	61*	144	75*	20	13-55/31
87-86-5	Pentachlorophenol	ND		192	153	80	192	100	23	57-118/26
108-95-2	Phenol	ND		96.2	42.3	44	51.4	53	19	13-54/34
95-95-4	2,4,5-Trichlorophenol	ND		96.2	72.2	75	87.5	91	19	59-106/23
88-06-2	2,4,6-Trichlorophenol	ND		96.2	69.0	72	86.7	90	23	58-107/24
83-32-9	Acenaphthene	ND		96.2	69.3	72	85.1	89	20	58-106/21
208-96-8	Acenaphthylene	ND		96.2	71.7	75	87.3	91	20	58-105/21
62-53-3	Aniline	ND		96.2	58.1	60	70.2	73	19	43-98/28
120-12-7	Anthracene	ND		96.2	68.1	71	85.0	88	22*	65-108/19
92-87-5	Benzidine	ND		96.2	38.5	40	48.1	50	22	15-73/23
56-55-3	Benzo(a)anthracene	ND		96.2	68.5	71	83.6	87	20*	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	63.1	66	78.2	81	21*	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	67.8	71	85.0	88	23*	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	72.9	76	90.4	94	21	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	67.0	70	83.9	87	22*	64-111/20
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	64.1	67	81.6	85	24*	64-107/20
85-68-7	Butyl benzyl phthalate	ND		96.2	69.6	72	86.4	90	22*	59-114/20
100-51-6	Benzyl Alcohol	ND		96.2	67.7	70	82.3	86	19	34-98/27
91-58-7	2-Chloronaphthalene	ND		96.2	65.6	68	78.8	82	18	54-105/24
106-47-8	4-Chloroaniline	ND		96.2	57.1	59	71.0	74	22	53-103/22
86-74-8	Carbazole	ND		96.2	71.2	74	87.6	91	21*	66-109/20
218-01-9	Chrysene	ND		96.2	70.5	73	87.5	91	22*	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	61.2	64	76.2	79	22	48-101/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	66.2	69	77.4	80	16	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	79.0	82	96.1	100	20	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	65.9	69	80.2	83	20	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MS	T004142.D	1	09/19/12	FS	09/18/12	OP43582	ST213
OP43582-MSD	T004143.D	1	09/19/12	FS	09/18/12	OP43582	ST213
F96920-7	T004141.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		96.2	64.2	67	74.9	78	15	41-102/28
122-66-7	1,2-Diphenylhydrazine	ND		96.2	74.8	78	91.5	95	20	61-110/20
541-73-1	1,3-Dichlorobenzene	ND		96.2	60.8	63	73.0	76	18	38-100/28
106-46-7	1,4-Dichlorobenzene	ND		96.2	61.3	64	74.1	77	19	40-100/28
121-14-2	2,4-Dinitrotoluene	ND		96.2	71.3	74	86.7	90	19	60-109/20
606-20-2	2,6-Dinitrotoluene	ND		96.2	76.7	80	92.0	96	18	58-104/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	64.6	67	78.4	82	19	57-105/25
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	70.2	73	88.0	92	23*	62-112/20
132-64-9	Dibenzofuran	ND		96.2	65.3	68	79.8	83	20	61-108/20
84-74-2	Di-n-butyl phthalate	ND		96.2	71.4	74	89.6	93	23*	62-109/20
117-84-0	Di-n-octyl phthalate	ND		96.2	66.9	70	84.2	88	23	60-120/24
84-66-2	Diethyl phthalate	ND		96.2	70.4	73	86.1	90	20*	62-109/19
131-11-3	Dimethyl phthalate	ND		96.2	70.7	74	87.2	91	21*	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	71.6	74	88.3	92	21	59-116/21
206-44-0	Fluoranthene	ND		96.2	70.0	73	86.7	90	21	65-114/21
86-73-7	Fluorene	ND		96.2	66.3	69	81.2	84	20*	61-106/19
118-74-1	Hexachlorobenzene	ND		96.2	62.9	65	80.2	83	24*	62-107/20
87-68-3	Hexachlorobutadiene	ND		96.2	56.8	59	70.5	73	22	38-107/30
77-47-4	Hexachlorocyclopentadiene	ND		96.2	61.3	64	76.8	80	22	19-84/35
67-72-1	Hexachloroethane	ND		96.2	67.6	70	82.1	85	19	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	70.0	73	84.7	88	19	61-113/20
78-59-1	Isophorone	ND		96.2	55.1	57	69.4	72	23	56-111/26
90-12-0	1-Methylnaphthalene	ND		96.2	58.6	61	72.4	75	21	52-102/25
91-57-6	2-Methylnaphthalene	ND		96.2	58.5	61	72.1	75	21	56-112/26
88-74-4	2-Nitroaniline	ND		96.2	88.8	92	109	113*	20	60-109/20
99-09-2	3-Nitroaniline	ND		96.2	67.9	71	82.5	86	19	52-107/21
100-01-6	4-Nitroaniline	ND		96.2	75.6	79	92.0	96	20	59-111/21
91-20-3	Naphthalene	ND		96.2	49.7	52	60.3	63	19	50-104/28
98-95-3	Nitrobenzene	ND		96.2	65.4	68	81.7	85	22	52-105/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	70.2	73*	86.6	90*	21	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	66.6	69	81.3	85	20	51-104/28
86-30-6	N-Nitrosodiphenylamine	ND		96.2	65.1	68	80.5	84	21*	57-110/19
85-01-8	Phenanthrene	ND		96.2	68.8	72	86.2	90	22*	65-108/20
129-00-0	Pyrene	ND		96.2	64.7	67	81.0	84	22*	60-113/20
110-86-1	Pyridine	ND		96.2	45.0	47	54.9	57	20	15-67/40
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	56.4	59	69.9	73	21	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43582-MS	T004142.D	1	09/19/12	FS	09/18/12	OP43582	ST213
OP43582-MSD	T004143.D	1	09/19/12	FS	09/18/12	OP43582	ST213
F96920-7	T004141.D	1	09/19/12	FS	09/18/12	OP43582	ST213

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
367-12-4	2-Fluorophenol	53%	63%* [a]	39%	14-62%
4165-62-2	Phenol-d5	38%	45%* [a]	26%	10-40%
118-79-6	2,4,6-Tribromophenol	66%	81%	76%	33-118%
4165-60-0	Nitrobenzene-d5	66%	83%	80%	42-108%
321-60-8	2-Fluorobiphenyl	69%	85%	70%	40-106%
1718-51-0	Terphenyl-d14	69%	85%	77%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4800-MB	CD117708.D	1	09/22/12	CP	n/a	n/a	GCD4800

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	57-129%
98-08-8	aaa-Trifluorotoluene	101%	58-120%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4802-MB	CD117725.D	1	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	57-129%
98-08-8	aaa-Trifluorotoluene	100%	58-120%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4803-MB	CD117757.D	1	09/24/12	CP	n/a	n/a	GCD4803

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	57-129%
98-08-8	aaa-Trifluorotoluene	97%	58-120%

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4800-BS	CD117707.D	1	09/22/12	CP	n/a	n/a	GCD4800

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-7

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.463	116	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	57-129%
98-08-8	aaa-Trifluorotoluene	118%	58-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4802-BS	CD117724.D	1	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.455	114	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4803-BS	CD117756.D	1	09/24/12	CP	n/a	n/a	GCD4803

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-5

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.435	109	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	107%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96920-7MS	CD117711.D	1	09/22/12	CP	n/a	n/a	GCD4800
F96920-7MSD	CD117712.D	1	09/22/12	CP	n/a	n/a	GCD4800
F96920-7	CD117709.D	1	09/22/12	CP	n/a	n/a	GCD4800

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-7

CAS No.	Compound	F96920-7 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.431	108	0.431	108	0	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
460-00-4	4-Bromofluorobenzene	104%	102%	101%	57-129%
98-08-8	aaa-Trifluorotoluene	118%	113%	97%	58-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96957-7MS	CD117740.D	10	09/24/12	CP	n/a	n/a	GCD4802
F96957-7MSD	CD117741.D	10	09/24/12	CP	n/a	n/a	GCD4802
F96957-7	CD117739.D	10	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	F96957-7 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	4.71		4	8.79	102	8.65	99	2	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96957-7	Limits
460-00-4	4-Bromofluorobenzene	103%	108%	100%	57-129%
98-08-8	aaa-Trifluorotoluene	331%* b	332%* b	310%* a	58-120%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97110-1MS	CD117782.D	1	09/25/12	CP	n/a	n/a	GCD4803
F97110-1MSD	CD117783.D	1	09/25/12	CP	n/a	n/a	GCD4803
F97110-1	CD117775.D	1	09/25/12	CP	n/a	n/a	GCD4803

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-5

CAS No.	Compound	F97110-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.10	U	0.4	0.416	104	0.402	101	3	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F97110-1	Limits
460-00-4	4-Bromofluorobenzene	106%	106%	98%	57-129%
98-08-8	aaa-Trifluorotoluene	116%	115%	96%	58-120%

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-MB	ST110286.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-1, F96920-3, F96920-5, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	95%	38-127%
2051-24-3	Decachlorobiphenyl	95%	25-137%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MB	ST110373.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-7

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	106%	38-127%
2051-24-3	Decachlorobiphenyl	96%	25-137%

Method Blank Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-MB	NN001558.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	42-114%

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-BS	ST110285.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-1, F96920-3, F96920-5, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.6	90	76-117
11096-82-5	Aroclor 1260	4	3.6	90	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	94%	38-127%
2051-24-3	Decachlorobiphenyl	102%	25-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-BS	ST110372.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.6	90	76-117
11096-82-5	Aroclor 1260	4	3.5	88	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	101%	38-127%
2051-24-3	Decachlorobiphenyl	91%	25-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-BS	NN001557.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.737	74	60-140
	TPH (> C22-C36)	1	0.955	96	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	73%	42-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43572-MS	ST110296.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
OP43572-MSD	ST110297.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656
F96812-9	ST110295.D	1	09/18/12	NJ	09/17/12	OP43572	GST2656

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-1, F96920-3, F96920-5, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	F96812-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		7.84	7.4	94	7.6	97	3	76-117/16
11096-82-5	Aroclor 1260	ND		7.84	7.8	99	7.9	101	1	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96812-9	Limits
877-09-8	Tetrachloro-m-xylene	99%	102%	92%	38-127%
2051-24-3	Decachlorobiphenyl	106%	106%	84%	25-137%

8.3.1

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MS	ST110376.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
OP43613-MSD	ST110377.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
F96920-7	ST110375.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96920-7

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		8	7.2	90	7.4	93	3	76-117/16
11096-82-5	Aroclor 1260	ND		8	7.5	94	7.8	98	4	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
877-09-8	Tetrachloro-m-xylene	97%	99%	101%	38-127%
2051-24-3	Decachlorobiphenyl	99%	103%	97%	25-137%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96920
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-MS	NN001563.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
OP43599-MSD	NN001564.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
F96920-7	NN001562.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96920-1, F96920-3, F96920-5, F96920-7, F96920-10, F96920-12, F96920-14, F96920-16, F96920-18

CAS No.	Compound	F96920-7 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		1.92	2.01	105	1.52	79	28	60-140/30
	TPH (> C22-C36)	ND		1.92	2.68	139	2.07	108	26	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
84-15-1	o-Terphenyl	104%	77%	89%	42-114%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23732
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	-0.015	<1.0

Associated samples MP23732: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23732
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12 09/24/12

Metal	F96920-7 Original	DUP	RPD	QC Limits	F96920-7 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	2.8	3	93.3	70-130

Associated samples MP23732: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23732
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.9	3	96.7	3.5	

Associated samples MP23732: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23732
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.1	3	103.3	85-115

Associated samples MP23732: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23732
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23732: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23733
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	-0.0087	<1.0

Associated samples MP23733: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23733
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12 09/24/12

Metal	F96920-7F Original	DUP	RPD	QC Limits	F96920-7F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	2.8	3	93.3	70-130

Associated samples MP23733: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23733
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.8	3	93.3	0.0	

Associated samples MP23733: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23733
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	85-115

Associated samples MP23733: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23733
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23733: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23734
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	-0.014	<1.0

Associated samples MP23734: F96920-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.3.1

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23734
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12 09/24/12

Metal	F96920-18F Original	DUP	RPD	QC Limits	F96920-18F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	2.4	3	80.0	70-130

Associated samples MP23734: F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23734
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-18F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.4	3	80.0	0.0	

Associated samples MP23734: F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23734
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	85-115

Associated samples MP23734: F96920-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23734
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-18F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23734: F96920-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25	-8.9	<200
Antimony	6.0	1	2	0.30	<6.0
Arsenic	10	1	2	-1.0	<10
Barium	200	4	5	0.20	<200
Beryllium	4.0	.1	1	0.0	<4.0
Cadmium	5.0	.1	1	0.0	<5.0
Calcium	1000	50	100	7.5	<1000
Chromium	10	1	1	0.40	<10
Cobalt	50	1	1	0.0	<50
Copper	25	1	2	-0.40	<25
Iron	300	23	35	0.50	<300
Lead	5.0	1	1	0.0	<5.0
Magnesium	5000	50	100	9.6	<5000
Manganese	15	1	1	0.10	<15
Molybdenum	50	1	2		
Nickel	40	1	2	-0.60	<40
Potassium	10000	50	500	-4.3	<10000
Selenium	10	2	2	-0.40	<10
Silver	10	1	1	-0.30	<10
Sodium	10000	850	1900	146	<10000
Strontium	10	1	1		
Thallium	10	1.5	1.9	-0.60	<10
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1	-0.10	<50
Zinc	20	1	5	0.10	<20

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:			09/24/12					09/24/12	
Metal	F96920-7 Original	DUP	RPD	QC Limits	F96920-7 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	0.0	69.4	200.0(a)	0-20	0.0	28700	27000	106.3	70-130
Antimony	1.1	1.9	53.3 (a)	0-20	1.1	572	500	114.2	70-130
Arsenic	18.8	18.5	1.6	0-20	18.8	2260	2000	112.1	70-130
Barium	15.7	16.1	2.5	0-20	15.7	2100	2000	104.2	70-130
Beryllium	0.10	0.0	200.0(a)	0-20	0.10	49.4	50	98.6	70-130
Cadmium	0.0	0.0	NC	0-20	0.0	49.0	50	98.0	70-130
Calcium	599000	607000	1.3	0-20	599000	597000	25000	-8.0 (b)	70-130
Chromium	0.0	1.1	200.0(a)	0-20	0.0	202	200	101.0	70-130
Cobalt	0.0	0.0	NC	0-20	0.0	497	500	99.4	70-130
Copper	0.0	0.0	NC	0-20	0.0	275	250	110.0	70-130
Iron	0.0	0.0	NC	0-20	0.0	25200	26000	96.9	70-130
Lead	2.1	1.7	21.1 (a)	0-20	2.1	466	500	92.8	70-130
Magnesium	113000	116000	2.6	0-20	113000	137000	25000	96.0	70-130
Manganese	0.0	3.7	200.0(a)	0-20	0.0	515	500	103.0	70-130
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	527	500	105.4	70-130
Potassium	15800	16300	3.1	0-20	15800	45400	25000	118.4	70-130
Selenium	0.0	2.2	200.0(a)	0-20	0.0	2340	2000	117.0	70-130
Silver	0.0	0.0	NC	0-20	0.0	53.5	50	107.0	70-130
Sodium	219000	258000	19.1	0-20	219000	224000	25000	44.0 (b)	70-130
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1780	2000	89.0	70-130
Tin									
Titanium									
Vanadium	114	117	2.6	0-20	114	622	500	101.6	70-130
Zinc	0.0	0.0	NC	0-20	0.0	500	500	100.0	70-130

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	0.0	29300	27000	108.5	2.1	20
Antimony	1.1	599	500	119.6	4.6	20
Arsenic	18.8	2380	2000	118.1	5.2	20
Barium	15.7	2180	2000	108.2	3.7	20
Beryllium	0.10	51.4	50	102.6	4.0	20
Cadmium	0.0	51.4	50	102.8	4.8	20
Calcium	599000	601000	25000	8.0 (a)	0.7	20
Chromium	0.0	209	200	104.5	3.4	20
Cobalt	0.0	520	500	104.0	4.5	20
Copper	0.0	287	250	114.8	4.3	20
Iron	0.0	25500	26000	98.1	1.2	20
Lead	2.1	484	500	96.4	3.8	20
Magnesium	113000	138000	25000	100.0	0.7	20
Manganese	0.0	534	500	106.8	3.6	20
Molybdenum						
Nickel	0.0	556	500	111.2	5.4	20
Potassium	15800	46300	25000	122.0	2.0	20
Selenium	0.0	2460	2000	123.0	5.0	20
Silver	0.0	55.3	50	110.6	3.3	20
Sodium	219000	241000	25000	112.0	7.3	20
Strontium						
Thallium	0.0	1850	2000	92.5	3.9	20
Tin						
Titanium						
Vanadium	114	644	500	106.0	3.5	20
Zinc	0.0	522	500	104.4	4.3	20

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27600	27000	102.2	85-115
Antimony	499	500	99.8	85-115
Arsenic	1950	2000	97.5	85-115
Barium	2000	2000	100.0	85-115
Beryllium	51.3	50	102.6	85-115
Cadmium	50.2	50	100.4	85-115
Calcium	26000	25000	104.0	85-115
Chromium	205	200	102.5	85-115
Cobalt	512	500	102.4	85-115
Copper	252	250	100.8	85-115
Iron	26700	26000	102.7	85-115
Lead	468	500	93.6	85-115
Magnesium	25500	25000	102.0	85-115
Manganese	504	500	100.8	85-115
Molybdenum				
Nickel	526	500	105.2	85-115
Potassium	25300	25000	101.2	85-115
Selenium	1980	2000	99.0	85-115
Silver	47.6	50	95.2	85-115
Sodium	25200	25000	100.8	85-115
Strontium				
Thallium	1910	2000	95.5	85-115
Tin				
Titanium				
Vanadium	498	500	99.6	85-115
Zinc	513	500	102.6	85-115

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7 Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	1.10	0.00	100.0(a)	0-10
Arsenic	18.8	10.0	46.8 (a)	0-10
Barium	15.7	0.00	100.0(a)	0-10
Beryllium	0.100	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	599000	593000	1.1	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	0.00	0.00	NC	0-10
Lead	2.10	0.00	100.0(a)	0-10
Magnesium	113000	107000	5.3	0-10
Manganese	0.00	0.00	NC	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	15800	13200	16.5*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	219000	215000	1.2	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	114	107	5.6	0-10
Zinc	0.00	0.00	NC	0-10

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23737
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	Sample ml	Final ml	F96920-7 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	0	0	2603	0.2	125	2500	104.1	85-115
Antimony	9.8	10	1.1	1.078	118.7	0.2	5	100	117.6*(a	85-115
Arsenic	9.8	10	18.8	18.424	135.4	0.2	5	100	117.0*(a	85-115
Barium	9.8	10	15.7	15.386	269.5	0.2	12.5	250	101.6	85-115
Beryllium	9.8	10	0.1	0.098	50.2	0.2	2.5	50	100.2	85-115
Cadmium	9.8	10	0	0	51.8	0.2	2.5	50	103.6	85-115
Calcium	9.8	10	599200	587216	585200	0.2	250	5000	-40.3*(a	85-115
Chromium	9.8	10	0	0	51.6	0.2	2.5	50	103.2	85-115
Cobalt	9.8	10	0	0	51.3	0.2	2.5	50	102.6	85-115
Copper	9.8	10	0	0	112.9	0.2	5	100	112.9	85-115
Iron	9.8	10	0	0	2886	0.2	150	3000	96.2	85-115
Lead	9.8	10	2.1	2.058	47.7	0.2	2.5	50	91.3	85-115
Magnesium	9.8	10	112500	110250	116400	0.2	250	5000	123.0*(a	85-115
Manganese	9.8	10	0	0	52.4	0.2	2.5	50	104.8	85-115
Molybdenum										
Nickel	9.8	10	0	0	107.6	0.2	5	100	107.6	85-115
Potassium	9.8	10	15780	15464.4	28090	0.2	500	10000	126.3*(a	85-115
Selenium	9.8	10	0	0	119.5	0.2	5	100	119.5*(a	85-115
Silver	9.8	10	0	0	50.3	0.2	2.5	50	100.6	85-115
Sodium	9.8	10	219400	208642	212100	0.2	500	10000	34.6*(a)	85-115
Strontium										
Thallium	9.8	10	0	0	87.9	0.2	5	100	87.9	85-115
Tin										
Titanium										
Vanadium	9.8	10	113.8	111.524	163.9	0.2	2.5	50	104.8	85-115
Zinc	9.8	10	0	0	291	0.2	12.5	250	116.4*(a	85-115

Associated samples MP23737: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9, F96920-10, F96920-12, F96920-14, F96920-16

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25	-8.1	<200
Antimony	6.0	1	2	0.10	<6.0
Arsenic	10	1	2	-0.20	<10
Barium	200	4	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	2.3	<1000
Chromium	10	1	1	-0.30	<10
Cobalt	50	1	1	-0.10	<50
Copper	25	1	2	-0.30	<25
Iron	300	23	35	-4.0	<300
Lead	5.0	1	1	-0.10	<5.0
Magnesium	5000	50	100	-2.5	<5000
Manganese	15	1	1	0.0	<15
Molybdenum	50	1	2		
Nickel	40	1	2	-0.70	<40
Potassium	10000	50	500	46.9	<10000
Selenium	10	2	2	-0.70	<10
Silver	10	1	1	0.40	<10
Sodium	10000	850	1900	123	<10000
Strontium	10	1	1		
Thallium	10	1.5	1.9	-1.4	<10
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1	-0.10	<50
Zinc	20	1	5	0.10	<20

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12 09/24/12

Metal	F96920-7F Original	DUP	RPD	QC Limits	F96920-7F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	0.0	0.0	NC	0-20	0.0	28600	27000	105.9	70-130
Antimony	1.9	2.0	5.1	0-20	1.9	571	500	113.8	70-130
Arsenic	19.6	20.0	2.0	0-20	19.6	2240	2000	111.0	70-130
Barium	16.7	16.7	0.0	0-20	16.7	2140	2000	106.2	70-130
Beryllium	0.0	0.0	NC	0-20	0.0	47.3	50	94.6	70-130
Cadmium	0.0	0.0	NC	0-20	0.0	47.8	50	95.6	70-130
Calcium	606000	588000	3.0	0-20	606000	591000	25000	-60.0(b)	70-130
Chromium	0.0	0.0	NC	0-20	0.0	198	200	99.0	70-130
Cobalt	0.0	0.0	NC	0-20	0.0	490	500	98.0	70-130
Copper	0.0	0.0	NC	0-20	0.0	277	250	110.8	70-130
Iron	0.0	0.0	NC	0-20	0.0	25000	26000	96.2	70-130
Lead	1.8	1.2	40.0 (a)	0-20	1.8	451	500	89.8	70-130
Magnesium	115000	112000	2.6	0-20	115000	135000	25000	80.0	70-130
Manganese	0.0	0.0	NC	0-20	0.0	524	500	104.8	70-130
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	524	500	104.8	70-130
Potassium	16500	16000	3.1	0-20	16500	45700	25000	116.8	70-130
Selenium	0.0	0.0	NC	0-20	0.0	2320	2000	116.0	70-130
Silver	0.0	0.0	NC	0-20	0.0	54.6	50	109.2	70-130
Sodium	224000	190000	1.6	0-20	224000	210000	25000	68.0 (b)	70-130
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1740	2000	87.0	70-130
Tin									
Titanium									
Vanadium	119	115	3.4	0-20	119	619	500	100.0	70-130
Zinc	0.0	0.0	NC	0-20	0.0	486	500	97.2	70-130

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	0.0	28900	27000	107.0	1.0	20
Antimony	1.9	568	500	113.2	0.5	20
Arsenic	19.6	2250	2000	111.5	0.4	20
Barium	16.7	2140	2000	106.2	0.0	20
Beryllium	0.0	48.1	50	96.2	1.7	20
Cadmium	0.0	48.2	50	96.4	0.8	20
Calcium	606000	592000	25000	-56.0(a)	0.2	20
Chromium	0.0	201	200	100.5	1.5	20
Cobalt	0.0	494	500	98.8	0.8	20
Copper	0.0	277	250	110.8	0.0	20
Iron	0.0	25400	26000	97.7	1.6	20
Lead	1.8	457	500	91.0	1.3	20
Magnesium	115000	134000	25000	76.0	0.7	20
Manganese	0.0	521	500	104.2	0.6	20
Molybdenum						
Nickel	0.0	523	500	104.6	0.2	20
Potassium	16500	46000	25000	118.0	0.7	20
Selenium	0.0	2330	2000	116.5	0.4	20
Silver	0.0	54.2	50	108.4	0.7	20
Sodium	224000	214000	25000	84.0	1.9	20
Strontium						
Thallium	0.0	1770	2000	88.5	1.7	20
Tin						
Titanium						
Vanadium	119	623	500	100.8	0.6	20
Zinc	0.0	489	500	97.8	0.6	20

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	27400	27000	101.5	85-115
Antimony	533	500	106.6	85-115
Arsenic	2050	2000	102.5	85-115
Barium	2070	2000	103.5	85-115
Beryllium	48.9	50	97.8	85-115
Cadmium	49.8	50	99.6	85-115
Calcium	25600	25000	102.4	85-115
Chromium	201	200	100.5	85-115
Cobalt	515	500	103.0	85-115
Copper	263	250	105.2	85-115
Iron	25800	26000	99.2	85-115
Lead	448	500	89.6	85-115
Magnesium	25300	25000	101.2	85-115
Manganese	521	500	104.2	85-115
Molybdenum				
Nickel	550	500	110.0	85-115
Potassium	25800	25000	103.2	85-115
Selenium	2090	2000	104.5	85-115
Silver	49.5	50	99.0	85-115
Sodium	24900	25000	99.6	85-115
Strontium				
Thallium	1840	2000	92.0	85-115
Tin				
Titanium				
Vanadium	503	500	100.6	85-115
Zinc	501	500	100.2	85-115

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	F96920-7F Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	1.90	8.50	347.4(a)	0-10
Arsenic	19.6	16.4	16.3 (a)	0-10
Barium	16.7	0.00	100.0(a)	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	606000	637000	5.2	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	0.00	0.00	NC	0-10
Lead	1.80	0.00	100.0(a)	0-10
Magnesium	115000	114000	0.9	0-10
Manganese	0.00	0.00	NC	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	16500	14600	11.5*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	224000	232000	20.4 (a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	119	117	2.1	0-10
Zinc	0.00	0.00	NC	0-10

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

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: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23738
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/24/12

Metal	Sample ml	Final ml	F96920-7F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	0	0	2501	0.2	125	2500	100.0	85-115
Antimony	9.8	10	1.9	1.862	115.6	0.2	5	100	113.7	85-115
Arsenic	9.8	10	19.6	19.208	132.1	0.2	5	100	112.9	85-115
Barium	9.8	10	16.7	16.366	268.1	0.2	12.5	250	100.7	85-115
Beryllium	9.8	10	0	0	47.1	0.2	2.5	50	94.2	85-115
Cadmium	9.8	10	0	0	49	0.2	2.5	50	98.0	85-115
Calcium	9.8	10	605800	593684	593600	0.2	250	5000	-1.7*(a)	85-115
Chromium	9.8	10	0	0	49.5	0.2	2.5	50	99.0	85-115
Cobalt	9.8	10	0	0	48.9	0.2	2.5	50	97.8	85-115
Copper	9.8	10	0	0	111.9	0.2	5	100	111.9	85-115
Iron	9.8	10	0	0	2775	0.2	150	3000	92.5	85-115
Lead	9.8	10	1.8	1.764	45.4	0.2	2.5	50	87.3	85-115
Magnesium	9.8	10	115400	113092	118100	0.2	250	5000	100.2	85-115
Manganese	9.8	10	0	0	52	0.2	2.5	50	104.0	85-115
Molybdenum										
Nickel	9.8	10	0	0	103.6	0.2	5	100	103.6	85-115
Potassium	9.8	10	16470	16140.6	28030	0.2	500	10000	118.9*(a	85-115
Selenium	9.8	10	0	0	116	0.2	5	100	116.0*(a	85-115
Silver	9.8	10	0	0	50.1	0.2	2.5	50	100.2	85-115
Sodium	9.8	10	224400	188650	225700	0.2	500	10000	370.5*(a	85-115
Strontium										
Thallium	9.8	10	0	0	82.4	0.2	5	100	82.4*(a)	85-115
Tin										
Titanium										
Vanadium	9.8	10	119.1	116.718	166.3	0.2	2.5	50	99.2	85-115
Zinc	9.8	10	0	0	275.6	0.2	12.5	250	110.2	85-115

Associated samples MP23738: F96920-18, F96920-1F, F96920-3F, F96920-5F, F96920-7F, F96920-9F, F96920-10F, F96920-12F, F96920-14F, F96920-16F, F96920-18F

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.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN51832	100	0.0	mg/l				
Solids, Total Dissolved	GN51842	100	0.0	mg/l				

Associated Samples:
Batch GN51832: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9
Batch GN51842: F96920-10, F96920-12, F96920-14, F96920-16, F96920-18
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96920
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN51832	F96920-7	mg/l	3390	3360	0.8	0-5%
Solids, Total Dissolved	GN51842	F96955-10	mg/l	6930	6950	0.3	0-5%

Associated Samples:
Batch GN51832: F96920-1, F96920-3, F96920-5, F96920-7, F96920-9
Batch GN51842: F96920-10, F96920-12, F96920-14, F96920-16, F96920-18
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

10/05/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F96955

Sampling Dates: 09/13/12 - 09/14/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **171**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F96955

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96955-1	09/13/12	13:35	JM	09/15/12	AQ	Ground Water	SS18-MW18
F96955-1F	09/13/12	13:35	JM	09/15/12	AQ	Groundwater Filtered	SS18-MW18
F96955-2	09/13/12	00:00	JM	09/15/12	AQ	Trip Blank Water	TRIP BLANK
F96955-3	09/13/12	15:30	JM	09/15/12	AQ	Ground Water	SS18-MW21
F96955-3F	09/13/12	15:30	JM	09/15/12	AQ	Groundwater Filtered	SS18-MW21
F96955-4	09/13/12	00:00	JM	09/15/12	AQ	Trip Blank Water	TRIP BLANK
F96955-5	09/14/12	08:40	JM	09/15/12	AQ	Ground Water	SS18-MW03
F96955-5F	09/14/12	08:40	JM	09/15/12	AQ	Groundwater Filtered	SS18-MW03
F96955-6	09/14/12	00:00	JM	09/15/12	AQ	Trip Blank Water	TRIP BLANK
F96955-7	09/13/12	14:45	JM	09/15/12	AQ	Ground Water	SS18-MW19
F96955-8	09/14/12	07:25	JM	09/15/12	AQ	Ground Water	SS18-MW19
F96955-8F	09/14/12	07:25	JM	09/15/12	AQ	Groundwater Filtered	SS18-MW19
F96955-9	09/14/12	00:00	JM	09/15/12	AQ	Trip Blank Water	TRIP BLANK

Accutest Laboratories

Sample Summary
(continued)

Nation View

Job No: F96955

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F96955-10	09/14/12	09:30	JM	09/15/12	AQ	Ground Water	SS18-MW04
F96955-11	09/14/12	09:00	JM	09/15/12	AQ	Ground Water	SS18-MW20
F96955-12	09/14/12	10:15	JM	09/15/12	AQ	Ground Water	SS18-MW13
F96955-13	09/14/12	00:00	JM	09/15/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F96955

Site: Holloman AFB; SS18 **Report Date** 10/5/2012 8:50:27 AM

8 Samples and 5 Trip Blanks were collected between 09/13/2012 and 09/14/2012 and were received at Accutest on 09/15/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F96955. 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:** VB3530

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96955-1MS, F96955-1MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: AQ **Batch ID:** VB3531

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96954-1MS, F96954-1MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix: AQ **Batch ID:** VC3570

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97099-4MS, F97099-4MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ440

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96970-11MS, F96970-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,3,5-Trimethylbenzene, 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Matrix Spike Duplicate Recovery(s) for 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 2-Chloroethyl vinyl ether, Carbon disulfide, cis-1,3-Dichloropropene, m,p-Xylene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for MSD for 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Styrene are outside control limits for sample F96970-11MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43603

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) F96954-1MS, F96954-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43603

Blank Spike Recovery(s) for sophorone are outside control limits.

MS/MSD Recovery(s) for Isophorone are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Benzidine are outside control limits for sample OP43603-MSD. Probable cause due to sample non-homogeneity.

F96955-1 for Isophorone: Associated BS recovery outside control limits.

F96955-3 for Isophorone: Associated BS recovery outside control limits.

F96955-5 for Isophorone: Associated BS recovery outside control limits.

F96955-8 for Isophorone: Associated BS recovery outside control limits.

F96955-12 for Isophorone: Associated BS recovery outside control limits.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GCD4802

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F96957-7MS, F96957-7MSD were used as the QC samples indicated.

Sample(s) F96957-7MS, F96957-7MSD have surrogates outside control limits. Probable cause due to matrix interference.

F96957-7MS for aaa-Trifluorotoluene: Outside control limits due to matrix interference.

F96957-7MSD for aaa-Trifluorotoluene: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP43599

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) F96920-7MS, F96920-7MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43613

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) F96920-7MS, F96920-7MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23768

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) F96955-1DUP, F96955-1MS, F96955-1MSD, F96955-1PS, F96955-1SDL were used as the QC samples for metals.

Matrix Spike Duplicate Recovery(s) for Potassium are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

MS/MSD 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 Beryllium, Thallium are outside control limits for sample MP23768-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Beryllium, Cobalt, Copper, Nickel, Thallium are outside control limits for sample MP23768-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23768-PS1 for Calcium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Chromium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23768

MP23768-PS1 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Magnesium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Potassium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Selenium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Sodium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Thallium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP23768-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

F96955-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Lead: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96955-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Antimony: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Chromium: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Lead: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Selenium: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Thallium: Elevated reporting limit(s) due to matrix interference.

F96955-1F for Zinc: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Antimony: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Chromium: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Copper: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Lead: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Manganese: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Selenium: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Thallium: Elevated reporting limit(s) due to matrix interference.

F96955-5 for Zinc: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Antimony: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Cadmium: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Chromium: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Copper: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Lead: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Manganese: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Selenium: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Thallium: Elevated reporting limit(s) due to matrix interference.

F96955-5F for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23768

F96955-7 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Lead: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96955-7 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Antimony: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Chromium: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Copper: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Lead: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Manganese: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Selenium: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Thallium: Elevated reporting limit(s) due to matrix interference.
F96955-8F for Zinc: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Lead: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96955-10 for Zinc: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Antimony: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Cadmium: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Chromium: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Copper: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Lead: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Manganese: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Selenium: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Thallium: Elevated reporting limit(s) due to matrix interference.
F96955-11 for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP23752

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) F96903-1DUP, F96903-1MS, F96903-1MSD, F96903-1SDL were used as the QC samples for metals.

Wet Chemistry By Method SM19 2540C

Matrix: AQ **Batch ID:** GN51842

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F96955-10DUP was used as the QC samples for Solids, Total Dissolved.

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 5, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96955-1	**SS18-MW18**					
1,1-Dichloroethane		8.5	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		2.8	1.0	0.23	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		102	5.0	1.3	ug/l	SW846 8260B
p-Dichlorobenzene		0.30 J	1.0	0.23	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		6.2	1.0	0.35	ug/l	SW846 8260B
Tetrachloroethylene		16.4	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		111	5.0	1.3	ug/l	SW846 8260B
Vinyl chloride		0.27 J	1.0	0.22	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.164	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C22)		0.108 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.136 J	0.24	0.096	mg/l	SW846 8015C
Aluminum		806	200	15	ug/l	SW846 6010C
Arsenic		16.4	10	2.5	ug/l	SW846 6010C
Barium		23.4 J	200	1.0	ug/l	SW846 6010C
Calcium		599000	20000	1000	ug/l	SW846 6010C
Cobalt		3.6 J	50	0.50	ug/l	SW846 6010C
Copper		2.5 J	25	1.0	ug/l	SW846 6010C
Iron		750	300	29	ug/l	SW846 6010C
Magnesium		357000	5000	74	ug/l	SW846 6010C
Manganese		185	15	0.70	ug/l	SW846 6010C
Nickel		3.6 J	40	0.50	ug/l	SW846 6010C
Potassium		27000	10000	200	ug/l	SW846 6010C
Sodium		831000	200000	10000	ug/l	SW846 6010C
Thallium [a]		71.9 J	200	26	ug/l	SW846 6010C
Vanadium		78.5	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		5800	500	50	mg/l	SM19 2540C
F96955-1F	**SS18-MW18**					
Aluminum		55.1 J	200	15	ug/l	SW846 6010C
Arsenic		15.8	10	2.5	ug/l	SW846 6010C
Barium		15.2 J	200	1.0	ug/l	SW846 6010C
Calcium		570000	20000	1000	ug/l	SW846 6010C
Cobalt		2.3 J	50	0.50	ug/l	SW846 6010C
Copper		1.5 J	25	1.0	ug/l	SW846 6010C
Magnesium		366000	5000	74	ug/l	SW846 6010C
Manganese		140	15	0.70	ug/l	SW846 6010C
Nickel		2.7 J	40	0.50	ug/l	SW846 6010C
Potassium		26300	10000	200	ug/l	SW846 6010C
Sodium		842000	200000	10000	ug/l	SW846 6010C
Vanadium		73.6	50	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96955-2	**TRIP BLANK**					
No hits reported in this sample.						
F96955-3	**SS18-MW21**					
Aluminum		72.1 J	200	15	ug/l	SW846 6010C
Antimony		3.8 J	6.0	1.3	ug/l	SW846 6010C
Arsenic		16.4	10	2.5	ug/l	SW846 6010C
Barium		10.4 J	200	1.0	ug/l	SW846 6010C
Calcium		492000	1000	50	ug/l	SW846 6010C
Cobalt		2.1 J	50	0.50	ug/l	SW846 6010C
Copper		1.3 J	25	1.0	ug/l	SW846 6010C
Magnesium		346000	5000	74	ug/l	SW846 6010C
Manganese		38.9	15	0.70	ug/l	SW846 6010C
Nickel		15.2 J	40	0.50	ug/l	SW846 6010C
Potassium		14200	10000	200	ug/l	SW846 6010C
Sodium		817000	200000	10000	ug/l	SW846 6010C
Thallium		3.0 J	10	1.3	ug/l	SW846 6010C
Vanadium		103	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		5800	400	40	mg/l	SM19 2540C
F96955-3F	**SS18-MW21**					
Aluminum		57.0 J	200	15	ug/l	SW846 6010C
Antimony		5.6 J	6.0	1.3	ug/l	SW846 6010C
Arsenic		17.9	10	2.5	ug/l	SW846 6010C
Barium		10.8 J	200	1.0	ug/l	SW846 6010C
Calcium		520000	1000	50	ug/l	SW846 6010C
Cobalt		2.1 J	50	0.50	ug/l	SW846 6010C
Magnesium		371000	5000	74	ug/l	SW846 6010C
Manganese		39.4	15	0.70	ug/l	SW846 6010C
Nickel		15.8 J	40	0.50	ug/l	SW846 6010C
Potassium		14400	10000	200	ug/l	SW846 6010C
Sodium		880000	200000	10000	ug/l	SW846 6010C
Vanadium		106	50	1.0	ug/l	SW846 6010C
F96955-4	**TRIP BLANK**					
No hits reported in this sample.						
F96955-5	**SS18-MW03**					
Chloroform		0.39 J	1.0	0.22	ug/l	SW846 8260B
Aluminum		151 J	200	15	ug/l	SW846 6010C

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Antimony [a]		8.6 J	12	2.6	ug/l	SW846 6010C
Arsenic		29.6	10	2.5	ug/l	SW846 6010C
Barium		20.1 J	200	1.0	ug/l	SW846 6010C
Calcium		734000	2000	100	ug/l	SW846 6010C
Chromium [a]		22.0	20	4.0	ug/l	SW846 6010C
Cobalt		0.60 J	50	0.50	ug/l	SW846 6010C
Copper [a]		10.1 J	50	2.0	ug/l	SW846 6010C
Iron		652	300	29	ug/l	SW846 6010C
Magnesium		1040000	10000	150	ug/l	SW846 6010C
Manganese [a]		28.7 J	30	1.4	ug/l	SW846 6010C
Nickel		7.1 J	40	0.50	ug/l	SW846 6010C
Potassium		35600	10000	200	ug/l	SW846 6010C
Selenium [a]		12.0 J	20	4.0	ug/l	SW846 6010C
Sodium		4490000	500000	25000	ug/l	SW846 6010C
Vanadium		107	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		13400	1000	100	mg/l	SM19 2540C
F96955-5F	**SS18-MW03**					
Aluminum		72.2 J	200	15	ug/l	SW846 6010C
Antimony [a]		8.9 J	12	2.6	ug/l	SW846 6010C
Arsenic		25.3	10	2.5	ug/l	SW846 6010C
Barium		20.4 J	200	1.0	ug/l	SW846 6010C
Calcium		744000	2000	100	ug/l	SW846 6010C
Copper [a]		6.2 J	50	2.0	ug/l	SW846 6010C
Magnesium		990000	10000	150	ug/l	SW846 6010C
Manganese [a]		26.2 J	30	1.4	ug/l	SW846 6010C
Nickel		5.8 J	40	0.50	ug/l	SW846 6010C
Potassium		34100	10000	200	ug/l	SW846 6010C
Selenium [a]		8.5 J	20	4.0	ug/l	SW846 6010C
Sodium		4380000	1000000	50000	ug/l	SW846 6010C
Thallium [a]		4.6 J	20	2.6	ug/l	SW846 6010C
Vanadium		97.6	50	1.0	ug/l	SW846 6010C
F96955-6	**TRIP BLANK**					
No hits reported in this sample.						
F96955-7	**SS18-MW19**					
1,1-Dichloroethane		497	5.0	1.3	ug/l	SW846 8260B
1,1-Dichloroethylene		53.8	5.0	1.2	ug/l	SW846 8260B
1,2-Dichloroethane		1.4 J	5.0	1.0	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		8.2	5.0	1.3	ug/l	SW846 8260B
Methyl Tert Butyl Ether		5.3	5.0	1.7	ug/l	SW846 8260B

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene	150	5.0	1.3	ug/l	SW846 8260B
Trichloroethylene	40.2	5.0	1.3	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.486	0.10	0.050	mg/l	SW846 8015C
Aluminum	3180	200	15	ug/l	SW846 6010C
Antimony [a]	5.3 J	12	2.6	ug/l	SW846 6010C
Arsenic	24.8	10	2.5	ug/l	SW846 6010C
Barium	39.4 J	200	1.0	ug/l	SW846 6010C
Calcium	792000	2000	100	ug/l	SW846 6010C
Chromium [a]	254	20	4.0	ug/l	SW846 6010C
Cobalt	4.4 J	50	0.50	ug/l	SW846 6010C
Copper	17.5 J	25	1.0	ug/l	SW846 6010C
Iron	8170	300	29	ug/l	SW846 6010C
Lead [a]	6.8 J	10	2.2	ug/l	SW846 6010C
Magnesium	391000	5000	74	ug/l	SW846 6010C
Manganese	364	15	0.70	ug/l	SW846 6010C
Nickel	49.4	40	0.50	ug/l	SW846 6010C
Potassium	21600	10000	200	ug/l	SW846 6010C
Sodium	369000	200000	10000	ug/l	SW846 6010C
Thallium [a]	3.0 J	20	2.6	ug/l	SW846 6010C
Vanadium	173	50	1.0	ug/l	SW846 6010C
Zinc [a]	27.8 J	40	10	ug/l	SW846 6010C
Solids, Total Dissolved	6390	500	50	mg/l	SM19 2540C
F96955-8 SS18-MW19					
TPH (C10-C22)	0.198 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)	0.143 J	0.24	0.096	mg/l	SW846 8015C
F96955-8F SS18-MW19					
Aluminum	73.6 J	200	15	ug/l	SW846 6010C
Antimony [a]	8.8 J	12	2.6	ug/l	SW846 6010C
Arsenic	9.4 J	10	2.5	ug/l	SW846 6010C
Barium	26.5 J	200	1.0	ug/l	SW846 6010C
Calcium	871000	2000	100	ug/l	SW846 6010C
Cobalt	1.1 J	50	0.50	ug/l	SW846 6010C
Copper [a]	4.8 J	50	2.0	ug/l	SW846 6010C
Iron	142 J	300	29	ug/l	SW846 6010C
Lead [a]	4.7 J	10	2.2	ug/l	SW846 6010C
Magnesium	552000	10000	150	ug/l	SW846 6010C
Manganese [a]	171	30	1.4	ug/l	SW846 6010C
Nickel	66.8	40	0.50	ug/l	SW846 6010C
Potassium	24900	10000	200	ug/l	SW846 6010C
Sodium	1720000	500000	25000	ug/l	SW846 6010C
Vanadium	73.2	50	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F96955-9	**TRIP BLANK**					
No hits reported in this sample.						
F96955-10	**SS18-MW04**					
Chloroform		4.0	1.0	0.22	ug/l	SW846 8260B
1,1-Dichloroethane		25.2	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethylene		35.9	1.0	0.23	ug/l	SW846 8260B
1,2-Dichloroethane		0.43 J	1.0	0.20	ug/l	SW846 8260B
1,1,1-Trichloroethane		0.71 J	1.0	0.20	ug/l	SW846 8260B
Tetrachloroethylene		0.32 J	1.0	0.25	ug/l	SW846 8260B
Aluminum		588	200	15	ug/l	SW846 6010C
Antimony [a]		2.6 J	12	2.6	ug/l	SW846 6010C
Arsenic		26.6	10	2.5	ug/l	SW846 6010C
Barium		19.1 J	200	1.0	ug/l	SW846 6010C
Calcium		572000	2000	100	ug/l	SW846 6010C
Chromium [a]		257	20	4.0	ug/l	SW846 6010C
Copper		177	25	1.0	ug/l	SW846 6010C
Iron		1500	300	29	ug/l	SW846 6010C
Magnesium		408000	5000	74	ug/l	SW846 6010C
Manganese		14.9 J	15	0.70	ug/l	SW846 6010C
Nickel		8.2 J	40	0.50	ug/l	SW846 6010C
Potassium		15000	10000	200	ug/l	SW846 6010C
Sodium		1300000	500000	25000	ug/l	SW846 6010C
Vanadium		185	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		6930	500	50	mg/l	SM19 2540C
F96955-11	**SS18-MW20**					
Chloroform		0.48 J	1.0	0.22	ug/l	SW846 8260B
Aluminum		1740	200	15	ug/l	SW846 6010C
Arsenic		21.2	10	2.5	ug/l	SW846 6010C
Barium		27.6 J	200	1.0	ug/l	SW846 6010C
Calcium		653000	2000	100	ug/l	SW846 6010C
Chromium [a]		8.3 J	20	4.0	ug/l	SW846 6010C
Cobalt		1.0 J	50	0.50	ug/l	SW846 6010C
Copper [a]		7.3 J	50	2.0	ug/l	SW846 6010C
Iron		1260	300	29	ug/l	SW846 6010C
Magnesium		769000	10000	150	ug/l	SW846 6010C
Manganese [a]		120	30	1.4	ug/l	SW846 6010C
Nickel		15.5 J	40	0.50	ug/l	SW846 6010C
Potassium		17100	10000	200	ug/l	SW846 6010C
Selenium [a]		6.8 J	20	4.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F96955
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/13/12 thru 09/14/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		3260000	500000	25000	ug/l	SW846 6010C
Vanadium		216	50	1.0	ug/l	SW846 6010C
Solids, Total Dissolved		12200	1000	100	mg/l	SM19 2540C
F96955-12	**SS18-MW13**					
TPH (> C22-C36)		0.106 J	0.25	0.099	mg/l	SW846 8015C
F96955-13	**TRIP BLANK**					

No hits reported in this sample.

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085921.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2	C089665.D	5	09/27/12	WV	n/a	n/a	VC3570

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	8.5	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	2.8	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	102 [a]	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.30	1.0	0.23	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	6.2	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	16.4	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	111 [a]	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.27	1.0	0.22	ug/l	J
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	106%	76-127%
2037-26-5	Toluene-D8	105%	99%	86-112%
460-00-4	4-Bromofluorobenzene	119%	109%	84-120%

(a) Result is from Run# 2

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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059464.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone [a]	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117747.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.164	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		57-129%
98-08-8	aaa-Trifluorotoluene	100%		58-120%

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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110378.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	95%		25-137%

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:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001572.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.108	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.136	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		42-114%

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: SS18-MW18
Lab Sample ID: F96955-1
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/13/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	806	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	26 U	120	26	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	16.4	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	23.4 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	10 U	100	10	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	599000	20000	1000	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	40 U	200	40	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	3.6 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	2.5 J	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	750	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	22 U	100	22	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	357000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	185	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	3.6 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	27000	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	40 U	200	40	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	831000	200000	10000	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium [a]	71.9 J	200	26	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	78.5	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	100 U	400	100	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10189
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW18		
Lab Sample ID:	F96955-1	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	5800	500	50	mg/l	5	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW18
Lab Sample ID: F96955-1F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/13/12
Date Received: 09/15/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	55.1 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	26 U	120	26	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	15.8	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	15.2 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	10 U	100	10	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	570000	20000	1000	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	40 U	200	40	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	2.3 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	1.5 J	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	22 U	100	22	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	366000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	140	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	2.7 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	26300	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	40 U	200	40	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	842000	200000	10000	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium [a]	26 U	200	26	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	73.6	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	100 U	400	100	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96955-2	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085922.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96955-2	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96955-2	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	116%		84-120%

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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085923.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	115%		84-120%

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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059465.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone [a]	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	59%		33-118%
4165-60-0	Nitrobenzene-d5	50%		42-108%
321-60-8	2-Fluorobiphenyl	49%		40-106%
1718-51-0	Terphenyl-d14	61%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117748.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		57-129%
98-08-8	aaa-Trifluorotoluene	99%		58-120%

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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110379.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	84%		25-137%

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:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001573.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.098	mg/l	
	TPH (> C22-C36)	ND	0.25	0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		42-114%

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: SS18-MW21
Lab Sample ID: F96955-3
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/13/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	72.1 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	3.8 J	6.0	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	16.4	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	10.4 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	0.50 U	5.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	492000	1000	50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Chromium	2.0 U	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	2.1 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	1.3 J	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.1 U	5.0	1.1	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	346000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	38.9	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	15.2 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	14200	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	817000	200000	10000	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	3.0 J	10	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	103	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10189
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW21		
Lab Sample ID:	F96955-3	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	5800	400	40	mg/l	4	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SS18-MW21
Lab Sample ID: F96955-3F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/13/12
Date Received: 09/15/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	57.0 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony	5.6 J	6.0	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Arsenic	17.9	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	10.8 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium	0.50 U	5.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Calcium	520000	1000	50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Chromium	2.0 U	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cobalt	2.1 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	1.0 U	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead	1.1 U	5.0	1.1	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Magnesium	371000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	39.4	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	15.8 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	14400	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	880000	200000	10000	ug/l	20	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium	1.3 U	10	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Vanadium	106	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc	5.0 U	20	5.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96955-4	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085924.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96955-4	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96955-4	**Date Sampled:**	09/13/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	116%		84-120%

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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085925.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.39	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	113%		84-120%

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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059472.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone [a]	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	35%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117749.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		57-129%
98-08-8	aaa-Trifluorotoluene	97%		58-120%

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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110380.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		38-127%
2051-24-3	Decachlorobiphenyl	97%		25-137%

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:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001574.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.098	mg/l	
	TPH (> C22-C36)	ND	0.25	0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		42-114%

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: SS18-MW03
Lab Sample ID: F96955-5
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/14/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	151 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	8.6 J	12	2.6	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	29.6	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	20.1 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	734000	2000	100	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	22.0	20	4.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	0.60 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper [a]	10.1 J	50	2.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Iron	652	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	2.2 U	10	2.2	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	1040000	10000	150	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Manganese [a]	28.7 J	30	1.4	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	7.1 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	35600	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	12.0 J	20	4.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	4490000	500000	25000	ug/l	50	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium [a]	2.6 U	20	2.6	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	107	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10189
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW03		
Lab Sample ID:	F96955-5	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	13400	1000	100	mg/l	10	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW03		
Lab Sample ID:	F96955-5F	**Date Sampled:**	09/14/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	72.2 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Antimony [a]	8.9 J	12	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Arsenic	25.3	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Barium	20.4 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Calcium	744000	2000	100	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Chromium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Cobalt	0.50 U	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Copper [a]	6.2 J	50	2.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Lead [a]	2.2 U	10	2.2	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Magnesium	990000	10000	150	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Manganese [a]	26.2 J	30	1.4	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [5]
Nickel	5.8 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Potassium	34100	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Selenium [a]	8.5 J	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Sodium	4380000	1000000	50000	ug/l	100	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [6]
Thallium [a]	4.6 J	20	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Vanadium	97.6	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Instrument QC Batch: MA10198
(5) Prep QC Batch: MP23752
(6) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96955-6	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085926.D	1	09/26/12	WV	n/a	n/a	VB3530
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96955-6	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96955-6	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	115%		84-120%

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:	SS18-MW19		
Lab Sample ID:	F96955-7	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B085970.D	5	09/27/12	WV	n/a	n/a	VB3531
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
107-02-8	Acrolein	ND	130	25	ug/l	
107-13-1	Acrylonitrile	ND	50	15	ug/l	
71-43-2	Benzene	ND	5.0	1.0	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/l	
75-25-2	Bromoform	ND	5.0	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.4	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.1	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	25	6.0	ug/l	
75-15-0	Carbon disulfide	ND	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	497	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	53.8	5.0	1.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.5	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.9	ug/l	
107-06-2	1,2-Dichloroethane	1.4	5.0	1.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	2.2	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	8.2	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	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:	SS18-MW19		
Lab Sample ID:	F96955-7	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	5.0	1.3	ug/l	
106-46-7	p-Dichlorobenzene	ND	5.0	1.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	4.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.1	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/l	
74-83-9	Methyl bromide	ND	10	2.5	ug/l	
74-87-3	Methyl chloride	ND	10	2.5	ug/l	
74-95-3	Methylene bromide	ND	10	1.3	ug/l	
75-09-2	Methylene chloride	ND	25	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.3	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	1.1	ug/l	
127-18-4	Tetrachloroethylene	150	5.0	1.3	ug/l	
108-88-3	Toluene	ND	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	40.2	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	1.1	ug/l	
108-05-4	Vinyl Acetate	ND	50	10	ug/l	
	m,p-Xylene	ND	10	1.6	ug/l	
95-47-6	o-Xylene	ND	5.0	1.0	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:	SS18-MW19		
Lab Sample ID:	F96955-7	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	112%		84-120%

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:	SS18-MW19		
Lab Sample ID:	F96955-7	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117750.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.486	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	102%		58-120%

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: SS18-MW19
Lab Sample ID: F96955-7
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/13/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3180	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Antimony [a]	5.3 J	12	2.6	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Arsenic	24.8	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Barium	39.4 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Calcium	792000	2000	100	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Chromium [a]	254	20	4.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Cobalt	4.4 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Copper	17.5 J	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Iron	8170	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Lead [a]	6.8 J	10	2.2	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Magnesium	391000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Manganese	364	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	49.4	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Potassium	21600	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Sodium	369000	200000	10000	ug/l	20	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Thallium [a]	3.0 J	20	2.6	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]
Vanadium	173	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [5]
Zinc [a]	27.8 J	40	10	ug/l	2	09/27/12	10/01/12	LM	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10189
(4) Prep QC Batch: MP23752
(5) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW19		
Lab Sample ID:	F96955-7	**Date Sampled:**	09/13/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6390	500	50	mg/l	5	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW19		
Lab Sample ID:	F96955-8	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059473.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW19		
Lab Sample ID:	F96955-8	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone [a]	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW19		
Lab Sample ID:	F96955-8	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW19		
Lab Sample ID:	F96955-8	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110381.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	93%		25-137%

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:	SS18-MW19		
Lab Sample ID:	F96955-8	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001575.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.198	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.143	0.24	0.096	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		42-114%

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:	SS18-MW19		
Lab Sample ID:	F96955-8F	**Date Sampled:**	09/14/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	73.6 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Antimony [a]	8.8 J	12	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Arsenic	9.4 J	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Barium	26.5 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Calcium	871000	2000	100	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Chromium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Cobalt	1.1 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Copper [a]	4.8 J	50	2.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Iron	142 J	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Lead [a]	4.7 J	10	2.2	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Magnesium	552000	10000	150	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Manganese [a]	171	30	1.4	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [5]
Nickel	66.8	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Potassium	24900	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Sodium	1720000	500000	25000	ug/l	50	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [6]
Thallium [a]	2.6 U	20	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]
Vanadium	73.2	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3010A [6]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Instrument QC Batch: MA10198
(5) Prep QC Batch: MP23752
(6) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F96955-9	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z9765.D	1	09/27/12	KW	n/a	n/a	VZ440
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96955-9	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96955-9	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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:	SS18-MW04		
Lab Sample ID:	F96955-10	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z9766.D	1	09/27/12	KW	n/a	n/a	VZ440
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	4.0	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	25.2	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	35.9	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	0.43	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW04		
Lab Sample ID:	F96955-10	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.71	1.0	0.20	ug/l	J
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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	0.32	1.0	0.25	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW04		
Lab Sample ID:	F96955-10	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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:	SS18-MW04		
Lab Sample ID:	F96955-10	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117751.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		57-129%
98-08-8	aaa-Trifluorotoluene	98%		58-120%

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: SS18-MW04
Lab Sample ID: F96955-10
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/14/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	588	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Antimony [a]	2.6 J	12	2.6	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Arsenic	26.6	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Barium	19.1 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Calcium	572000	2000	100	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Chromium [a]	257	20	4.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Cobalt	0.50 U	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Copper	177	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Iron	1500	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Lead [a]	2.2 U	10	2.2	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Magnesium	408000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Manganese	14.9 J	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [5]
Nickel	8.2 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Potassium	15000	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Selenium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Sodium	1300000	500000	25000	ug/l	50	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [6]
Thallium [a]	2.6 U	20	2.6	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Vanadium	185	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Instrument QC Batch: MA10202
(5) Prep QC Batch: MP23752
(6) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW04		
Lab Sample ID:	F96955-10	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	6930	500	50	mg/l	5	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW20		
Lab Sample ID:	F96955-11	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z9767.D	1	09/27/12	KW	n/a	n/a	VZ440
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	0.48	1.0	0.22	ug/l	J
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	SS18-MW20		
Lab Sample ID:	F96955-11	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	SS18-MW20		
Lab Sample ID:	F96955-11	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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:	SS18-MW20		
Lab Sample ID:	F96955-11	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD117752.D	1	09/24/12	CP	n/a	n/a	GCD4802
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		57-129%
98-08-8	aaa-Trifluorotoluene	102%		58-120%

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: SS18-MW20
Lab Sample ID: F96955-11
Matrix: AQ - Ground Water
Project: Holloman AFB; SS18

Date Sampled: 09/14/12
Date Received: 09/15/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1740	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Antimony [a]	2.6 U	12	2.6	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Arsenic	21.2	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Barium	27.6 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Calcium	653000	2000	100	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Chromium [a]	8.3 J	20	4.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Cobalt	1.0 J	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Copper [a]	7.3 J	50	2.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Iron	1260	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Lead [a]	2.2 U	10	2.2	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Magnesium	769000	10000	150	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Manganese [a]	120	30	1.4	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [5]
Nickel	15.5 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Potassium	17100	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Selenium [a]	6.8 J	20	4.0	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Sodium	3260000	500000	25000	ug/l	50	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3010A [6]
Thallium [a]	2.6 U	20	2.6	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]
Vanadium	216	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3010A [6]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/04/12	LM	SW846 6010C [4]	SW846 3010A [6]

(1) Instrument QC Batch: MA10174
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Instrument QC Batch: MA10202
(5) Prep QC Batch: MP23752
(6) Prep QC Batch: MP23768

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW20		
Lab Sample ID:	F96955-11	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
		Percent Solids:	n/a
Project:	Holloman AFB; SS18		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	12200	1000	100	mg/l	10	09/19/12	LE	SM19 2540C

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW13		
Lab Sample ID:	F96955-12	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059474.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.51	ug/l	
	3&4-Methylphenol	ND	4.8	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.1	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.0	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW13		
Lab Sample ID:	F96955-12	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.51	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.51	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.83	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.94	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.53	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.95	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.5	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone [a]	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.54	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.76	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.56	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW13		
Lab Sample ID:	F96955-12	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW13		
Lab Sample ID:	F96955-12	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110384.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.48	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.48	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.48	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.48	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.48	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.48	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.48	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		38-127%
2051-24-3	Decachlorobiphenyl	60%		25-137%

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:	SS18-MW13		
Lab Sample ID:	F96955-12	**Date Sampled:**	09/14/12
Matrix:	AQ - Ground Water	**Date Received:**	09/15/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001576.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.099	mg/l	
	TPH (> C22-C36)	0.106	0.25	0.099	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		42-114%

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:	TRIP BLANK		
Lab Sample ID:	F96955-13	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z9768.D	1	09/27/12	KW	n/a	n/a	VZ440
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	

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:	TRIP BLANK		
Lab Sample ID:	F96955-13	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	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:	TRIP BLANK		
Lab Sample ID:	F96955-13	**Date Sampled:**	09/14/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/15/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F96955

Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09142012-01
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW18	SS18-MW18	9/13/2012	1335	-	N	1	WG	15	X	X	X	X	X	X	X	X				1
2	Trip Blank				-	TB	1	WQ	2	X											1
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Jeff Moore	9/14/12	1400	1. FX		09:30
2. FX			2. J. Conne (AIRB)	9-15-12	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Shipped No.:
Method of Shipment: Fed Ex
Airbill Number: 7989 6614 8298
Analytical Lab: Accutest Labs
Delivery Location: Orlando, FL
Lab Recipient:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

2.8 2.4 2.8 2.6 3.0

5.1 5

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09142012-02
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
3	SS18-MW21	SS18-MW21	9/13/2012	1530	-	N	1	WG	15	X	X	X	X	X	X	X	X				2
4	Trip Blank				-	TB	1	WG	2	X											2
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	9/14/12	1400	FX		09:30
2.	FX			[illegible]	9-15-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 7989 6614 8107
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09142012-03
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
						Sample Analysis Requested (5)												Quality Assurance Samples (6)			
5	SS18-MW03	SS18-MW03	9/14/2012	0840	-	N	1	GW	15	X	X	X	X	X	X	X	X				3
6	Trip Blank				-	TB	1	WQ	2	X											3
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1.	[signature]	9/14/12	1400	FX		09:30
2.	FX			[signature] (Alset)	9-15-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Shipped No.:
Method of Shipment: Fed Ex
Airbill Number: 798966148828
Analytical Lab: Accutest Labs
Delivery Location: Orlando, FL
Lab Recipient:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09142012-04
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
7	SS18-MW19	SS19-MW19	9/13/2012	1445	-	N	1	WG	8	X	X					X	X				4
8	SS18-MW19	SS19-MW19	9/14/2012	0725	-	N	1	WG	4			X	X	X	X						4
9	Trip Blank				-	TB	1	WQ	2	X											4

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/14/12	1400	FX		
2.	FX			[signature] (AVE)	9-15-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest Labs
Lab Recipient:
Shipped No.:
Airbill Number: 798966148368
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

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Chain of Custody and Analytical Request

Page: 1 of 1
NV Project No: 11-0020.01.030
COC Number(1): 09142012-05
LIMS Number:

Facility/Base I.D.: Holloman Air Force Base, New Mexico
Project/Site Name: SS-18 Supplemental ACM (Groundwater)
Client Name: USACE Omaha District
Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
10	SS18-MW04	SS18-MW04	9/14/12	0930	-	N	1	WG	8	X	X					X	X				5
11	SS18-MW20	SS18-MW20	9/14/12	0900	-	N	1	WG	8	X	X					X	X				5
12	SS18-MW13	SS18-MW13	9/14/12	1015	-	N	1	WG	3			X	X	X							5
13	Trip Blank					TB	1	WQ	2	X											5
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	9/14/12	1400	FX		09:30
2.	FX			[signature] (Alex)	9-15-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Shipped No.:
Method of Shipment: Fed Ex
Airbill Number: 798966148839
Analytical Lab: Accutest Labs
Delivery Location: Orlando, FL
Lab Recipient:
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

F96955: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F96955 CLIENT: NATION VIEW PROJECT: SS-18 ACM GW

DATE/TIME RECEIVED: 9-15-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7989 6614 8839

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 5
- [ ] 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: 2.4 2.0 2.4 2.2 2.6
- [ ] CORRECTED TEMPS: 2.8 2.4 2.8 2.6 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] 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: RECEIVED ONLY AMBER (8270)(8082)(DRO) FOR SAMPLES 8,12

TECHNICIAN SIGNATURE/DATE 9-15-12 REVIEWER SIGNATURE/DATE 09-15-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F96955: Chain of Custody

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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

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-MB	B085919.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-MB	B085919.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-MB	B085919.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	106%	86-112%
460-00-4	4-Bromofluorobenzene	119%	84-120%

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3570-MB	C089664.D	1	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	109%	84-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-MB	B085947.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-MB	B085947.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-MB	B085947.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	116%	84-120%

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-MB	Z9760.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	25	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	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	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.2	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	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	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	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	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	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-MB	Z9760.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	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	
74-95-3	Methylene bromide	ND	2.0	0.25	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	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	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	
87-61-6	1,2,3-Trichlorobenzene	0.55	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	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	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.32	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-MB	Z9760.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	105%	84-120%

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-BS	B085920.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	159	127	59-134
107-02-8	Acrolein	125	79.3	63	33-157
107-13-1	Acrylonitrile	125	83.8	67	62-124
71-43-2	Benzene	25	25.4	102	83-124
108-86-1	Bromobenzene	25	24.7	99	83-115
74-97-5	Bromochloromethane	25	20.4	82	78-112
75-27-4	Bromodichloromethane	25	24.6	98	76-116
75-25-2	Bromoform	25	20.7	83	68-128
104-51-8	n-Butylbenzene	25	27.3	109	84-124
135-98-8	sec-Butylbenzene	25	28.8	115	86-127
98-06-6	tert-Butylbenzene	25	28.6	114	83-126
108-90-7	Chlorobenzene	25	25.6	102	87-115
75-00-3	Chloroethane	25	26.5	106	54-166
67-66-3	Chloroform	25	24.1	96	85-123
95-49-8	o-Chlorotoluene	25	27.1	108	84-121
106-43-4	p-Chlorotoluene	25	28.1	112	84-120
110-75-8	2-Chloroethyl vinyl ether	125	113	90	63-125
75-15-0	Carbon disulfide	25	24.6	98	67-147
56-23-5	Carbon tetrachloride	25	23.5	94	74-139
75-34-3	1,1-Dichloroethane	25	23.7	95	82-127
75-35-4	1,1-Dichloroethylene	25	24.8	99	75-133
563-58-6	1,1-Dichloropropene	25	25.1	100	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	24.6	98	61-118
106-93-4	1,2-Dibromoethane	25	25.6	102	80-115
107-06-2	1,2-Dichloroethane	25	22.1	88	76-122
78-87-5	1,2-Dichloropropane	25	24.1	96	81-120
142-28-9	1,3-Dichloropropane	25	24.4	98	81-113
594-20-7	2,2-Dichloropropane	25	25.6	102	77-138
124-48-1	Dibromochloromethane	25	23.8	95	74-116
75-71-8	Dichlorodifluoromethane	25	34.8	139	34-158
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.3	93	83-119
541-73-1	m-Dichlorobenzene	25	26.6	106	86-115
95-50-1	o-Dichlorobenzene	25	26.3	105	85-115
106-46-7	p-Dichlorobenzene	25	24.7	99	87-113
156-60-5	trans-1,2-Dichloroethylene	25	23.5	94	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-BS	B085920.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.8	103	87-123
100-41-4	Ethylbenzene	25	26.1	104	87-118
591-78-6	2-Hexanone	125	135	108	58-125
87-68-3	Hexachlorobutadiene	25	26.2	105	71-133
98-82-8	Isopropylbenzene	25	27.8	111	87-131
99-87-6	p-Isopropyltoluene	25	30.0	120	83-125
108-10-1	4-Methyl-2-pentanone	125	118	94	62-125
74-83-9	Methyl bromide	25	27.0	108	55-151
74-87-3	Methyl chloride	25	29.6	118	55-173
74-95-3	Methylene bromide	25	21.3	85	81-116
75-09-2	Methylene chloride	25	23.9	96	69-125
78-93-3	Methyl ethyl ketone	125	108	86	61-127
1634-04-4	Methyl Tert Butyl Ether	25	21.3	85	75-116
91-20-3	Naphthalene	25	27.9	112	59-125
103-65-1	n-Propylbenzene	25	28.1	112	86-125
100-42-5	Styrene	25	26.3	105	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.7	103	81-119
71-55-6	1,1,1-Trichloroethane	25	24.7	99	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	71-120
79-00-5	1,1,2-Trichloroethane	25	25.9	104	80-114
87-61-6	1,2,3-Trichlorobenzene	25	26.8	107	64-126
96-18-4	1,2,3-Trichloropropane	25	24.9	100	77-115
120-82-1	1,2,4-Trichlorobenzene	25	26.3	105	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.1	100	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.5	102	83-123
127-18-4	Tetrachloroethylene	25	22.7	91	80-131
108-88-3	Toluene	25	24.9	100	86-116
79-01-6	Trichloroethylene	25	26.1	104	85-124
75-69-4	Trichlorofluoromethane	25	27.2	109	66-156
75-01-4	Vinyl chloride	25	29.1	116	57-153
108-05-4	Vinyl Acetate	125	70.3	56	38-159
	m,p-Xylene	50	52.6	105	86-121
95-47-6	o-Xylene	25	27.5	110	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3530-BS	B085920.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	113%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3570-BS	C089663.D	1	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	81-114
79-01-6	Trichloroethylene	25	25.1	100	85-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	76-127%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	110%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-BS	B085946.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	168	134	59-134
107-02-8	Acrolein	125	160	128	33-157
107-13-1	Acrylonitrile	125	116	93	62-124
71-43-2	Benzene	25	24.1	96	83-124
108-86-1	Bromobenzene	25	23.7	95	83-115
74-97-5	Bromochloromethane	25	20.6	82	78-112
75-27-4	Bromodichloromethane	25	23.8	95	76-116
75-25-2	Bromoform	25	20.5	82	68-128
104-51-8	n-Butylbenzene	25	26.9	108	84-124
135-98-8	sec-Butylbenzene	25	27.7	111	86-127
98-06-6	tert-Butylbenzene	25	27.9	112	83-126
108-90-7	Chlorobenzene	25	24.3	97	87-115
75-00-3	Chloroethane	25	24.4	98	54-166
67-66-3	Chloroform	25	22.9	92	85-123
95-49-8	o-Chlorotoluene	25	25.8	103	84-121
106-43-4	p-Chlorotoluene	25	27.3	109	84-120
110-75-8	2-Chloroethyl vinyl ether	125	107	86	63-125
75-15-0	Carbon disulfide	25	24.1	96	67-147
56-23-5	Carbon tetrachloride	25	21.9	88	74-139
75-34-3	1,1-Dichloroethane	25	22.4	90	82-127
75-35-4	1,1-Dichloroethylene	25	24.3	97	75-133
563-58-6	1,1-Dichloropropene	25	23.4	94	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	25.0	100	61-118
106-93-4	1,2-Dibromoethane	25	24.6	98	80-115
107-06-2	1,2-Dichloroethane	25	21.3	85	76-122
78-87-5	1,2-Dichloropropane	25	22.6	90	81-120
142-28-9	1,3-Dichloropropane	25	23.7	95	81-113
594-20-7	2,2-Dichloropropane	25	24.4	98	77-138
124-48-1	Dibromochloromethane	25	22.9	92	74-116
75-71-8	Dichlorodifluoromethane	25	32.8	131	34-158
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	81-114
10061-01-5	cis-1,3-Dichloropropene	25	22.1	88	83-119
541-73-1	m-Dichlorobenzene	25	26.1	104	86-115
95-50-1	o-Dichlorobenzene	25	26.0	104	85-115
106-46-7	p-Dichlorobenzene	25	24.1	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	22.5	90	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-BS	B085946.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	25.0	100	87-123
100-41-4	Ethylbenzene	25	25.0	100	87-118
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	26.1	104	71-133
98-82-8	Isopropylbenzene	25	26.6	106	87-131
99-87-6	p-Isopropyltoluene	25	29.1	116	83-125
108-10-1	4-Methyl-2-pentanone	125	117	94	62-125
74-83-9	Methyl bromide	25	26.8	107	55-151
74-87-3	Methyl chloride	25	26.7	107	55-173
74-95-3	Methylene bromide	25	21.2	85	81-116
75-09-2	Methylene chloride	25	23.7	95	69-125
78-93-3	Methyl ethyl ketone	125	114	91	61-127
1634-04-4	Methyl Tert Butyl Ether	25	20.2	81	75-116
91-20-3	Naphthalene	25	28.9	116	59-125
103-65-1	n-Propylbenzene	25	27.3	109	86-125
100-42-5	Styrene	25	25.2	101	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.4	98	81-119
71-55-6	1,1,1-Trichloroethane	25	23.8	95	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	71-120
79-00-5	1,1,2-Trichloroethane	25	24.4	98	80-114
87-61-6	1,2,3-Trichlorobenzene	25	27.1	108	64-126
96-18-4	1,2,3-Trichloropropane	25	24.7	99	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.9	104	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.7	99	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.4	98	83-123
127-18-4	Tetrachloroethylene	25	21.8	87	80-131
108-88-3	Toluene	25	24.0	96	86-116
79-01-6	Trichloroethylene	25	25.2	101	85-124
75-69-4	Trichlorofluoromethane	25	26.3	105	66-156
75-01-4	Vinyl chloride	25	26.9	108	57-153
108-05-4	Vinyl Acetate	125	177	142	38-159
	m,p-Xylene	50	49.8	100	86-121
95-47-6	o-Xylene	25	26.4	106	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3531-BS	B085946.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	112%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-BS	Z9759.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	103	82	59-134
107-02-8	Acrolein	125	129	103	33-157
107-13-1	Acrylonitrile	125	93.5	75	62-124
71-43-2	Benzene	25	25.0	100	83-124
108-86-1	Bromobenzene	25	25.5	102	83-115
74-97-5	Bromochloromethane	25	22.2	89	78-112
75-27-4	Bromodichloromethane	25	23.2	93	76-116
75-25-2	Bromoform	25	22.4	90	68-128
104-51-8	n-Butylbenzene	25	25.3	101	84-124
135-98-8	sec-Butylbenzene	25	27.0	108	86-127
98-06-6	tert-Butylbenzene	25	26.1	104	83-126
108-90-7	Chlorobenzene	25	25.9	104	87-115
75-00-3	Chloroethane	25	28.9	116	54-166
67-66-3	Chloroform	25	23.3	93	85-123
95-49-8	o-Chlorotoluene	25	25.6	102	84-121
106-43-4	p-Chlorotoluene	25	26.3	105	84-120
110-75-8	2-Chloroethyl vinyl ether	125	108	86	63-125
75-15-0	Carbon disulfide	25	22.7	91	67-147
56-23-5	Carbon tetrachloride	25	24.0	96	74-139
75-34-3	1,1-Dichloroethane	25	24.0	96	82-127
75-35-4	1,1-Dichloroethylene	25	25.4	102	75-133
563-58-6	1,1-Dichloropropene	25	25.4	102	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	25.0	100	61-118
106-93-4	1,2-Dibromoethane	25	23.1	92	80-115
107-06-2	1,2-Dichloroethane	25	22.5	90	76-122
78-87-5	1,2-Dichloropropane	25	23.8	95	81-120
142-28-9	1,3-Dichloropropane	25	23.3	93	81-113
594-20-7	2,2-Dichloropropane	25	25.4	102	77-138
124-48-1	Dibromochloromethane	25	23.2	93	74-116
75-71-8	Dichlorodifluoromethane	25	32.7	131	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	81-114
10061-01-5	cis-1,3-Dichloropropene	25	22.8	91	83-119
541-73-1	m-Dichlorobenzene	25	25.3	101	86-115
95-50-1	o-Dichlorobenzene	25	25.0	100	85-115
106-46-7	p-Dichlorobenzene	25	24.1	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	82-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-BS	Z9759.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	24.3	97	87-123
100-41-4	Ethylbenzene	25	24.5	98	87-118
591-78-6	2-Hexanone	125	106	85	58-125
87-68-3	Hexachlorobutadiene	25	31.3	125	71-133
98-82-8	Isopropylbenzene	25	26.9	108	87-131
99-87-6	p-Isopropyltoluene	25	25.9	104	83-125
108-10-1	4-Methyl-2-pentanone	125	109	87	62-125
74-83-9	Methyl bromide	25	29.3	117	55-151
74-87-3	Methyl chloride	25	29.9	120	55-173
74-95-3	Methylene bromide	25	24.6	98	81-116
75-09-2	Methylene chloride	25	23.6	94	69-125
78-93-3	Methyl ethyl ketone	125	127	102	61-127
1634-04-4	Methyl Tert Butyl Ether	25	22.0	88	75-116
91-20-3	Naphthalene	25	26.6	106	59-125
103-65-1	n-Propylbenzene	25	27.5	110	86-125
100-42-5	Styrene	25	23.3	93	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	23.7	95	81-119
71-55-6	1,1,1-Trichloroethane	25	23.3	93	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	71-120
79-00-5	1,1,2-Trichloroethane	25	25.8	103	80-114
87-61-6	1,2,3-Trichlorobenzene	25	27.4	110	64-126
96-18-4	1,2,3-Trichloropropane	25	24.9	100	77-115
120-82-1	1,2,4-Trichlorobenzene	25	25.6	102	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.1	96	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.1	96	83-123
127-18-4	Tetrachloroethylene	25	24.4	98	80-131
108-88-3	Toluene	25	25.1	100	86-116
79-01-6	Trichloroethylene	25	24.8	99	85-124
75-69-4	Trichlorofluoromethane	25	27.6	110	66-156
75-01-4	Vinyl chloride	25	33.6	134	57-153
108-05-4	Vinyl Acetate	125	60.6	48	38-159
	m,p-Xylene	50	50.0	100	86-121
95-47-6	o-Xylene	25	24.5	98	83-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ440-BS	Z9759.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96955-1MS	B085931.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1MSD	B085932.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1	B085921.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	F96955-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	132	106	132	106	0	59-134/14
107-02-8	Acrolein	ND		125	66.7	53	69.0	55	3	33-157/21
107-13-1	Acrylonitrile	ND		125	87.5	70	90.5	72	3	62-124/13
71-43-2	Benzene	ND		25	24.7	99	24.2	97	2	83-124/11
108-86-1	Bromobenzene	ND		25	23.5	94	24.0	96	2	83-115/10
74-97-5	Bromochloromethane	ND		25	20.1	80	20.3	81	1	78-112/10
75-27-4	Bromodichloromethane	ND		25	24.2	97	24.2	97	0	76-116/10
75-25-2	Bromoform	ND		25	21.5	86	21.2	85	1	68-128/11
104-51-8	n-Butylbenzene	ND		25	26.6	106	25.8	103	3	84-124/10
135-98-8	sec-Butylbenzene	ND		25	27.5	110	26.8	107	3	86-127/10
98-06-6	tert-Butylbenzene	ND		25	27.2	109	27.0	108	1	83-126/10
108-90-7	Chlorobenzene	ND		25	24.8	99	24.0	96	3	87-115/9
75-00-3	Chloroethane	ND		25	25.9	104	24.9	100	4	54-166/20
67-66-3	Chloroform	ND		25	22.9	92	22.9	92	0	85-123/10
95-49-8	o-Chlorotoluene	ND		25	25.8	103	25.7	103	0	84-121/10
106-43-4	p-Chlorotoluene	ND		25	26.9	108	26.7	107	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	ND		25	21.0	84	20.9	84	0	67-147/12
56-23-5	Carbon tetrachloride	ND		25	21.9	88	22.0	88	0	74-139/13
75-34-3	1,1-Dichloroethane	8.5		25	30.7	89	31.0	90	1	82-127/10
75-35-4	1,1-Dichloroethylene	2.8		25	25.1	89	24.6	87	2	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	23.8	95	23.5	94	1	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	26.7	107	27.5	110	3	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	25.8	103	25.4	102	2	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	21.7	87	21.9	88	1	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	22.8	91	23.1	92	1	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	24.7	99	24.0	96	3	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	24.0	96	22.9	92	5	77-138/12
124-48-1	Dibromochloromethane	ND		25	23.2	93	23.0	92	1	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	28.8	115	32.1	128	11	34-158/22
156-59-2	cis-1,2-Dichloroethylene	122	E	25	143	84	141	76* [a]	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.0	88	22.4	90	2	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	25.8	103	25.5	102	1	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	26.0	104	25.8	103	1	85-115/9
106-46-7	p-Dichlorobenzene	0.30	J	25	23.9	94	24.1	95	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	6.2		25	28.1	88	28.1	88	0	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96955-1MS	B085931.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1MSD	B085932.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1	B085921.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Compound	F96955-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.4	102	24.4	98	4	87-123/10
100-41-4	Ethylbenzene	ND		25	25.4	102	24.4	98	4	87-118/10
591-78-6	2-Hexanone	ND		125	152	122	148	118	3	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	25.3	101	24.6	98	3	71-133/12
98-82-8	Isopropylbenzene	ND		25	25.8	103	25.7	103	0	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	28.5	114	27.8	111	2	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	140	112	141	113	1	62-125/13
74-83-9	Methyl bromide	ND		25	27.3	109	27.0	108	1	55-151/21
74-87-3	Methyl chloride	ND		25	27.7	111	26.6	106	4	55-173/22
74-95-3	Methylene bromide	ND		25	21.1	84	21.1	84	0	81-116/10
75-09-2	Methylene chloride	ND		25	23.1	92	23.2	93	0	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	114	91	115	92	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	20.1	80	21.1	84	5	75-116/10
91-20-3	Naphthalene	ND		25	30.2	121	30.3	121	0	59-125/15
103-65-1	n-Propylbenzene	ND		25	27.2	109	26.3	105	3	86-125/10
100-42-5	Styrene	ND		25	25.7	103	24.7	99	4	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	25.4	102	24.2	97	5	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	23.2	93	23.1	92	0	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.8	103	26.4	106	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	25.5	102	25.1	100	2	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.4	110	27.6	110	1	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	25.8	103	26.5	106	3	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.0	104	26.0	104	0	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.6	98	24.1	96	2	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.2	97	24.0	96	1	83-123/10
127-18-4	Tetrachloroethylene	16.4		25	38.8	90	36.3	80	7	80-131/12
108-88-3	Toluene	ND		25	23.6	94	22.9	92	3	86-116/10
79-01-6	Trichloroethylene	136	E	25	162	104	158	88	3	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	27.8	111	26.3	105	6	66-156/15
75-01-4	Vinyl chloride	0.27	J	25	27.5	109	26.5	105	4	57-153/22
108-05-4	Vinyl Acetate	ND		125	71.3	57	72.2	58	1	38-159/11
	m,p-Xylene	ND		50	51.6	103	49.5	99	4	86-121/10
95-47-6	o-Xylene	ND		25	27.1	108	25.9	104	5	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96955-1MS	B085931.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1MSD	B085932.D	1	09/26/12	WV	n/a	n/a	VB3530
F96955-1	B085921.D	1	09/26/12	WV	n/a	n/a	VB3530

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1, F96955-2, F96955-3, F96955-4, F96955-5, F96955-6

CAS No.	Surrogate Recoveries	MS	MSD	F96955-1	Limits
1868-53-7	Dibromofluoromethane	91%	94%	93%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	94%	76-127%
2037-26-5	Toluene-D8	104%	102%	105%	86-112%
460-00-4	4-Bromofluorobenzene	108%	111%	119%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96954-1MS	B085956.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1MSD	B085957.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1	B085959.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	F96954-1 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	139	111	141	113	1	59-134/14
107-02-8	Acrolein	25 U		125	120	96	112	90	7	33-157/21
107-13-1	Acrylonitrile	10 U		125	125	100	124	99	1	62-124/13
71-43-2	Benzene	1.0 U		25	25.9	104	24.5	98	6	83-124/11
108-86-1	Bromobenzene	1.0 U		25	24.6	98	23.7	95	4	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	20.9	84	21.0	84	0	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	24.8	99	23.9	96	4	76-116/10
75-25-2	Bromoform	1.0 U		25	21.5	86	21.6	86	0	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	27.3	109	26.3	105	4	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	28.2	113	27.1	108	4	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	28.6	114	27.1	108	5	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	24.9	100	24.3	97	2	87-115/9
75-00-3	Chloroethane	2.0 U		25	24.7	99	23.4	94	5	54-166/20
67-66-3	Chloroform	1.0 U		25	24.1	96	23.4	94	3	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	26.5	106	25.6	102	3	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	27.8	111	26.7	107	4	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	24.5	98	23.8	95	3	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	23.2	93	22.6	90	3	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	24.2	97	23.0	92	5	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	25.0	100	24.3	97	3	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	24.7	99	23.7	95	4	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.4	102	27.1	108	6	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	25.6	102	25.6	102	0	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	22.6	90	22.4	90	1	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	23.9	96	22.6	90	6	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	24.2	97	24.3	97	0	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	24.7	99	23.8	95	4	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	22.9	92	23.5	94	3	74-116/11
75-71-8	Dichlorodifluoromethane	0.59	J	25	33.9	133	34.4	135	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	25.0	100	24.8	99	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	22.6	90	21.8	87	4	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	26.9	108	25.7	103	5	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	26.8	107	25.9	104	3	85-115/9
106-46-7	p-Dichlorobenzene	0.25	J	25	24.9	99	24.0	95	4	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	23.9	96	22.8	91	5	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96954-1MS	B085956.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1MSD	B085957.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1	B085959.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Compound	F96954-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	25.0	100	25.0	100	0	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	25.0	100	24.4	98	2	87-118/10
591-78-6	2-Hexanone	10 U		125	132	106	137	110	4	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	25.9	104	25.7	103	1	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	26.8	107	26.2	105	2	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	29.7	119	28.4	114	4	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	130	104	131	105	1	62-125/13
74-83-9	Methyl bromide	2.0 U		25	26.1	104	24.7	99	6	55-151/21
74-87-3	Methyl chloride	2.0 U		25	26.4	106	25.2	101	5	55-173/22
74-95-3	Methylene bromide	2.0 U		25	21.4	86	21.2	85	1	81-116/10
75-09-2	Methylene chloride	5.0 U		25	24.9	100	23.9	96	4	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	126	101	127	102	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	21.9	88	21.8	87	0	75-116/10
91-20-3	Naphthalene	5.0 U		25	29.4	118	30.3	121	3	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	27.7	111	26.7	107	4	86-125/10
100-42-5	Styrene	1.0 U		25	25.5	102	24.7	99	3	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	25.3	101	24.2	97	4	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	24.4	98	24.2	97	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	25.8	103	26.4	106	2	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	25.0	100	24.9	100	0	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	27.9	112	27.2	109	3	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	25.9	104	26.0	104	0	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	26.8	107	25.8	103	4	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	25.4	102	24.2	97	5	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	24.9	100	24.0	96	4	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	22.0	88	21.1	84	4	80-131/12
108-88-3	Toluene	1.0 U		25	23.7	95	23.4	94	1	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	25.8	103	24.9	100	4	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	27.5	110	25.9	104	6	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	26.0	104	24.9	100	4	57-153/22
108-05-4	Vinyl Acetate	10 U		125	181	145	177	142	2	38-159/11
	m,p-Xylene	2.0 U		50	51.4	103	49.8	100	3	86-121/10
95-47-6	o-Xylene	1.0 U		25	26.9	108	26.1	104	3	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96954-1MS	B085956.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1MSD	B085957.D	1	09/27/12	WV	n/a	n/a	VB3531
F96954-1	B085959.D	1	09/27/12	WV	n/a	n/a	VB3531

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-7

CAS No.	Surrogate Recoveries	MS	MSD	F96954-1	Limits
1868-53-7	Dibromofluoromethane	92%	93%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	97%	76-127%
2037-26-5	Toluene-D8	101%	102%	104%	86-112%
460-00-4	4-Bromofluorobenzene	108%	108%	114%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97099-4MS	C089676.D	100	09/27/12	WV	n/a	n/a	VC3570
F97099-4MSD	C089677.D	100	09/27/12	WV	n/a	n/a	VC3570
F97099-4	C089671.D	100	09/27/12	WV	n/a	n/a	VC3570

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-1

CAS No.	Compound	F97099-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	2890		2500	5060	87	4910	81	3	81-114/10
79-01-6	Trichloroethylene	100	U	2500	2560	102	2490	100	3	85-124/10

CAS No.	Surrogate Recoveries	MS	MSD	F97099-4	Limits
1868-53-7	Dibromofluoromethane	107%	107%	108%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	108%	108%	76-127%
2037-26-5	Toluene-D8	101%	102%	100%	86-112%
460-00-4	4-Bromofluorobenzene	107%	107%	108%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96970-11MS	Z9781.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11MSD	Z9782.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11	Z9769.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	F96970-11 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	114	91	123	98	8	59-134/14
107-02-8	Acrolein	25 U		125	114	91	121	97	6	33-157/21
107-13-1	Acrylonitrile	10 U		125	86.8	69	88.3	71	2	62-124/13
71-43-2	Benzene	1.0 U		25	23.8	95	23.1	92	3	83-124/11
108-86-1	Bromobenzene	1.0 U		25	23.6	94	23.9	96	1	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	21.2	85	20.8	83	2	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	21.3	85	20.2	81	5	76-116/10
75-25-2	Bromoform	1.0 U		25	16.9	68	17.7	71	5	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	22.2	89	21.6	86	3	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	24.9	100	23.5	94	6	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	24.1	96	23.2	93	4	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	23.8	95	24.1	96	1	87-115/9
75-00-3	Chloroethane	2.0 U		25	29.1	116	28.2	113	3	54-166/20
67-66-3	Chloroform	1.0 U		25	22.4	90	21.9	88	2	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	23.7	95	22.9	92	3	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	24.1	96	23.8	95	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	17.0	68	15.8	63*	7	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	21.3	85	19.9	80	7	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	23.5	94	22.7	91	3	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	24.8	99	24.1	96	3	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	23.9	96	22.7	91	5	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.4	102	23.7	95	7	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	21.0	84	22.1	88	5	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	21.9	88	21.8	87	0	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	22.6	90	22.4	90	1	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	21.6	86	22.4	90	4	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	21.5	86	20.8	83	3	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	18.9	76	19.1	76	1	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	30.2	121	31.0	124	3	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	22.2	89	22.0	88	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	18.0	72*	17.0	68*	6	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	23.4	94	23.1	92	1	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	22.7	91	22.7	91	0	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	22.4	90	21.7	87	3	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	23.2	93	22.1	88	5	82-126/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96970-11MS	Z9781.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11MSD	Z9782.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11	Z9769.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Compound	F96970-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	20.7	83*	20.7	83*	0	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	22.7	91	22.4	90	1	87-118/10
591-78-6	2-Hexanone	10 U		125	110	88	122	98	10	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U		25	28.4	114	27.4	110	4	71-133/12
98-82-8	Isopropylbenzene	1.0 U		25	24.0	96	23.2	93	3	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U		25	22.8	91	21.4	86	6	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U		125	114	91	119	95	4	62-125/13
74-83-9	Methyl bromide	2.0 U		25	28.7	115	27.1	108	6	55-151/21
74-87-3	Methyl chloride	2.0 U		25	30.7	123	29.7	119	3	55-173/22
74-95-3	Methylene bromide	2.0 U		25	24.0	96	23.5	94	2	81-116/10
75-09-2	Methylene chloride	5.0 U		25	24.0	96	23.7	95	1	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U		125	111	89	120	96	8	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	20.7	83	21.3	85	3	75-116/10
91-20-3	Naphthalene	5.0 U		25	24.9	100	25.4	102	2	59-125/15
103-65-1	n-Propylbenzene	1.0 U		25	24.9	100	23.9	96	4	86-125/10
100-42-5	Styrene	1.0 U		25	17.1	68*	14.3	57*	18*	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U		25	22.1	88	21.1	84	5	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	21.7	87	21.5	86	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	26.3	105	26.7	107	2	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	25.0	100	26.0	104	4	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U		25	25.2	101	24.6	98	2	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U		25	24.6	98	25.1	100	2	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U		25	23.5	94	22.7	91	3	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U		25	20.7	83	18.4	74*	12*	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U		25	19.8	79*	16.9	68*	16*	83-123/10
127-18-4	Tetrachloroethylene	1.0 U		25	22.1	88	22.0	88	0	80-131/12
108-88-3	Toluene	1.0 U		25	22.7	91	22.6	90	0	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	23.7	95	22.7	91	4	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	28.2	113	27.0	108	4	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	32.5	130	31.9	128	2	57-153/22
108-05-4	Vinyl Acetate	10 U		125	52.9	42	53.0	42	0	38-159/11
	m,p-Xylene	2.0 U		50	44.6	89	42.7	85*	4	86-121/10
95-47-6	o-Xylene	1.0 U		25	21.6	86	21.2	85	2	83-121/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96970-11MS	Z9781.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11MSD	Z9782.D	1	09/27/12	KW	n/a	n/a	VZ440
F96970-11	Z9769.D	1	09/27/12	KW	n/a	n/a	VZ440

The QC reported here applies to the following samples: **Method:** SW846 8260B

F96955-9, F96955-10, F96955-11, F96955-13

CAS No.	Surrogate Recoveries	MS	MSD	F96970-11	Limits
1868-53-7	Dibromofluoromethane	101%	99%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	98%	76-127%
2037-26-5	Toluene-D8	99%	100%	102%	86-112%
460-00-4	4-Bromofluorobenzene	99%	99%	103%	84-120%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MB	L059459.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MB	L059459.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MB	L059459.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	14-62%
4165-62-2	Phenol-d5	23%	10-40%
118-79-6	2,4,6-Tribromophenol	65%	33-118%
4165-60-0	Nitrobenzene-d5	58%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-BS	L059458.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	11.0	11	10-50
95-57-8	2-Chlorophenol	50	31.5	63	44-103
59-50-7	4-Chloro-3-methyl phenol	50	33.8	68	53-105
120-83-2	2,4-Dichlorophenol	50	32.2	64	53-108
105-67-9	2,4-Dimethylphenol	50	27.3	55	37-91
51-28-5	2,4-Dinitrophenol	100	70.8	71	37-111
534-52-1	4,6-Dinitro-o-cresol	100	84.5	85	62-115
95-48-7	2-Methylphenol	50	27.6	55	35-91
	3&4-Methylphenol	100	52.1	52	32-85
88-75-5	2-Nitrophenol	50	35.5	71	49-111
100-02-7	4-Nitrophenol	100	34.6	35	13-55
87-86-5	Pentachlorophenol	100	77.9	78	57-118
108-95-2	Phenol	50	13.5	27	13-54
95-95-4	2,4,5-Trichlorophenol	50	38.9	78	59-106
88-06-2	2,4,6-Trichlorophenol	50	38.5	77	58-107
83-32-9	Acenaphthene	50	36.6	73	58-106
208-96-8	Acenaphthylene	50	37.9	76	58-105
62-53-3	Aniline	50	32.5	65	43-98
120-12-7	Anthracene	50	38.4	77	65-108
92-87-5	Benzidine	50	31.1	62	15-73
56-55-3	Benzo(a)anthracene	50	39.0	78	63-111
50-32-8	Benzo(a)pyrene	50	37.7	75	62-106
205-99-2	Benzo(b)fluoranthene	50	39.9	80	63-109
191-24-2	Benzo(g,h,i)perylene	50	38.9	78	61-111
207-08-9	Benzo(k)fluoranthene	50	38.2	76	64-111
101-55-3	4-Bromophenyl phenyl ether	50	37.9	76	64-107
85-68-7	Butyl benzyl phthalate	50	39.5	79	59-114
100-51-6	Benzyl Alcohol	50	29.4	59	34-98
91-58-7	2-Chloronaphthalene	50	35.5	71	54-105
106-47-8	4-Chloroaniline	50	32.2	64	53-103
86-74-8	Carbazole	50	39.6	79	66-109
218-01-9	Chrysene	50	38.6	77	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	30.5	61	48-101
111-44-4	bis(2-Chloroethyl)ether	50	31.9	64	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	30.7	61	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	37.3	75	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-BS	L059458.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.6	63	41-102
122-66-7	1,2-Diphenylhydrazine	50	38.2	76	61-110
541-73-1	1,3-Dichlorobenzene	50	30.6	61	38-100
106-46-7	1,4-Dichlorobenzene	50	31.2	62	40-100
121-14-2	2,4-Dinitrotoluene	50	43.4	87	60-109
606-20-2	2,6-Dinitrotoluene	50	40.6	81	58-104
91-94-1	3,3'-Dichlorobenzidine	50	40.0	80	57-105
53-70-3	Dibenzo(a,h)anthracene	50	42.2	84	62-112
132-64-9	Dibenzofuran	50	40.0	80	61-108
84-74-2	Di-n-butyl phthalate	50	38.8	78	62-109
117-84-0	Di-n-octyl phthalate	50	37.3	75	60-120
84-66-2	Diethyl phthalate	50	38.8	78	62-109
131-11-3	Dimethyl phthalate	50	37.7	75	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	39.3	79	59-116
206-44-0	Fluoranthene	50	38.2	76	65-114
86-73-7	Fluorene	50	37.7	75	61-106
118-74-1	Hexachlorobenzene	50	37.8	76	62-107
87-68-3	Hexachlorobutadiene	50	28.2	56	38-107
77-47-4	Hexachlorocyclopentadiene	50	31.1	62	19-84
67-72-1	Hexachloroethane	50	29.5	59	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.6	81	61-113
78-59-1	Isophorone	50	26.4	53*	56-111
90-12-0	1-Methylnaphthalene	50	32.3	65	52-102
91-57-6	2-Methylnaphthalene	50	31.8	64	56-112
88-74-4	2-Nitroaniline	50	48.3	97	60-109
99-09-2	3-Nitroaniline	50	39.3	79	52-107
100-01-6	4-Nitroaniline	50	41.5	83	59-111
91-20-3	Naphthalene	50	29.2	58	50-104
98-95-3	Nitrobenzene	50	31.0	62	52-105
62-75-9	N-Nitrosodimethylamine	50	19.7	39	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	33.6	67	51-104
86-30-6	N-Nitrosodiphenylamine	50	38.2	76	57-110
85-01-8	Phenanthrene	50	39.0	78	65-108
129-00-0	Pyrene	50	36.8	74	60-113
110-86-1	Pyridine	50	19.4	39	15-67
120-82-1	1,2,4-Trichlorobenzene	50	28.7	57	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-BS	L059458.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	42%	14-62%
4165-62-2	Phenol-d5	27%	10-40%
118-79-6	2,4,6-Tribromophenol	80%	33-118%
4165-60-0	Nitrobenzene-d5	62%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	75%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MS	L059469.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
OP43603-MSD	L059470.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
F96954-1	L059468.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	F96954-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	48 U		192	71.6	37	67.1	35	6	10-50/40
95-57-8	2-Chlorophenol	4.8 U		96.2	61.0	63	59.4	62	3	44-103/29
59-50-7	4-Chloro-3-methyl phenol	4.8 U		96.2	62.1	65	62.5	65	1	53-105/24
120-83-2	2,4-Dichlorophenol	4.8 U		96.2	59.2	62	58.5	61	1	53-108/26
105-67-9	2,4-Dimethylphenol	4.8 U		96.2	50.5	53	50.6	53	0	37-91/28
51-28-5	2,4-Dinitrophenol	24 U		192	146	76	146	76	0	37-111/30
534-52-1	4,6-Dinitro-o-cresol	9.6 U		192	165	86	158	82	4	62-115/26
95-48-7	2-Methylphenol	4.8 U		96.2	54.2	56	54.9	57	1	35-91/30
	3&4-Methylphenol	4.8 U		192	110	57	109	57	1	32-85/29
88-75-5	2-Nitrophenol	4.8 U		96.2	66.5	69	66.0	69	1	49-111/30
100-02-7	4-Nitrophenol	24 U		192	101	53	97.0	50	4	13-55/31
87-86-5	Pentachlorophenol	24 U		192	152	79	141	73	8	57-118/26
108-95-2	Phenol	4.8 U		96.2	35.3	37	35.3	37	0	13-54/34
95-95-4	2,4,5-Trichlorophenol	4.8 U		96.2	71.0	74	69.9	73	2	59-106/23
88-06-2	2,4,6-Trichlorophenol	4.8 U		96.2	68.6	71	68.5	71	0	58-107/24
83-32-9	Acenaphthene	4.8 U		96.2	68.4	71	66.9	70	2	58-106/21
208-96-8	Acenaphthylene	4.8 U		96.2	70.9	74	67.6	70	5	58-105/21
62-53-3	Aniline	4.8 U		96.2	58.3	61	62.7	65	7	43-98/28
120-12-7	Anthracene	4.8 U		96.2	74.5	77	70.5	73	6	65-108/19
92-87-5	Benzidine	24 U		96.2	34.9	36	47.1	49	30*	15-73/23
56-55-3	Benzo(a)anthracene	4.8 U		96.2	75.6	79	70.7	74	7	63-111/19
50-32-8	Benzo(a)pyrene	4.8 U		96.2	74.1	77	68.6	71	8	62-106/20
205-99-2	Benzo(b)fluoranthene	4.8 U		96.2	79.2	82	74.0	77	7	63-109/20
191-24-2	Benzo(g,h,i)perylene	4.8 U		96.2	78.6	82	70.0	73	12	61-111/21
207-08-9	Benzo(k)fluoranthene	4.8 U		96.2	74.3	77	71.1	74	4	64-111/20
101-55-3	4-Bromophenyl phenyl ether	4.8 U		96.2	74.4	77	69.8	73	6	64-107/20
85-68-7	Butyl benzyl phthalate	4.8 U		96.2	77.7	81	72.2	75	7	59-114/20
100-51-6	Benzyl Alcohol	4.8 U		96.2	56.4	59	58.5	61	4	34-98/27
91-58-7	2-Chloronaphthalene	4.8 U		96.2	65.8	68	63.7	66	3	54-105/24
106-47-8	4-Chloroaniline	4.8 U		96.2	54.4	57	57.4	60	5	53-103/22
86-74-8	Carbazole	4.8 U		96.2	74.1	77	70.2	73	5	66-109/20
218-01-9	Chrysene	4.8 U		96.2	74.2	77	69.1	72	7	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	4.8 U		96.2	55.3	58	54.8	57	1	48-101/28
111-44-4	bis(2-Chloroethyl)ether	4.8 U		96.2	59.5	62	57.6	60	3	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	4.8 U		96.2	57.0	59	56.4	59	1	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	4.8 U		96.2	70.5	73	67.2	70	5	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MS	L059469.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
OP43603-MSD	L059470.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
F96954-1	L059468.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	F96954-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	4.8 U		96.2	60.9	63	59.4	62	2	41-102/28
122-66-7	1,2-Diphenylhydrazine	4.8 U		96.2	74.1	77	68.9	72	7	61-110/20
541-73-1	1,3-Dichlorobenzene	4.8 U		96.2	60.7	63	58.4	61	4	38-100/28
106-46-7	1,4-Dichlorobenzene	4.8 U		96.2	60.6	63	58.8	61	3	40-100/28
121-14-2	2,4-Dinitrotoluene	4.8 U		96.2	82.6	86	80.0	83	3	60-109/20
606-20-2	2,6-Dinitrotoluene	4.8 U		96.2	74.6	78	71.6	74	4	58-104/21
91-94-1	3,3'-Dichlorobenzidine	9.6 U		96.2	69.7	72	64.3	67	8	57-105/25
53-70-3	Dibenzo(a,h)anthracene	4.8 U		96.2	84.1	87	77.4	80	8	62-112/20
132-64-9	Dibenzofuran	4.8 U		96.2	70.6	73	68.6	71	3	61-108/20
84-74-2	Di-n-butyl phthalate	4.8 U		96.2	75.5	79	70.9	74	6	62-109/20
117-84-0	Di-n-octyl phthalate	4.8 U		96.2	73.8	77	70.1	73	5	60-120/24
84-66-2	Diethyl phthalate	4.8 U		96.2	73.7	77	69.4	72	6	62-109/19
131-11-3	Dimethyl phthalate	4.8 U		96.2	71.4	74	67.0	70	6	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	4.8 U		96.2	76.4	79	71.9	75	6	59-116/21
206-44-0	Fluoranthene	4.8 U		96.2	74.8	78	69.6	72	7	65-114/21
86-73-7	Fluorene	4.8 U		96.2	71.7	75	68.3	71	5	61-106/19
118-74-1	Hexachlorobenzene	4.8 U		96.2	73.1	76	68.8	72	6	62-107/20
87-68-3	Hexachlorobutadiene	4.8 U		96.2	58.4	61	55.2	57	6	38-107/30
77-47-4	Hexachlorocyclopentadiene	9.6 U		96.2	58.0	60	57.7	60	1	19-84/35
67-72-1	Hexachloroethane	4.8 U		96.2	60.0	62	57.5	60	4	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.8 U		96.2	79.1	82	74.7	78	6	61-113/20
78-59-1	Isophorone	4.8 U		96.2	47.8	50*	47.8	50*	0	56-111/26
90-12-0	1-Methylnaphthalene	4.8 U		96.2	59.4	62	59.4	62	0	52-102/25
91-57-6	2-Methylnaphthalene	4.8 U		96.2	58.4	61	57.8	60	1	56-112/26
88-74-4	2-Nitroaniline	4.8 U		96.2	88.7	92	85.3	89	4	60-109/20
99-09-2	3-Nitroaniline	4.8 U		96.2	66.9	70	65.3	68	2	52-107/21
100-01-6	4-Nitroaniline	4.8 U		96.2	74.7	78	72.9	76	2	59-111/21
91-20-3	Naphthalene	4.8 U		96.2	56.7	59	54.6	57	4	50-104/28
98-95-3	Nitrobenzene	4.8 U		96.2	58.6	61	56.6	59	3	52-105/28
62-75-9	N-Nitrosodimethylamine	4.8 U		96.2	48.8	51	47.9	50	2	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	4.8 U		96.2	60.4	63	60.1	63	0	51-104/28
86-30-6	N-Nitrosodiphenylamine	4.8 U		96.2	75.3	78	70.5	73	7	57-110/19
85-01-8	Phenanthrene	4.8 U		96.2	78.3	81	71.7	75	9	65-108/20
129-00-0	Pyrene	4.8 U		96.2	72.4	75	66.4	69	9	60-113/20
110-86-1	Pyridine	9.6 U		96.2	39.9	41	44.7	46	11	15-67/40
120-82-1	1,2,4-Trichlorobenzene	4.8 U		96.2	56.4	59	55.1	57	2	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43603-MS	L059469.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
OP43603-MSD	L059470.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029
F96954-1	L059468.D	1	09/19/12	NAF	09/19/12	OP43603	SL3029

The QC reported here applies to the following samples: **Method:** SW846 8270D

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Surrogate Recoveries	MS	MSD	F96954-1	Limits
367-12-4	2-Fluorophenol	50%	49%	44%	14-62%
4165-62-2	Phenol-d5	37%	36%	29%	10-40%
118-79-6	2,4,6-Tribromophenol	78%	75%	89%	33-118%
4165-60-0	Nitrobenzene-d5	59%	58%	78%	42-108%
321-60-8	2-Fluorobiphenyl	66%	65%	81%	40-106%
1718-51-0	Terphenyl-d14	75%	72%	79%	39-121%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4802-MB	CD117725.D	1	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	57-129%
98-08-8	aaa-Trifluorotoluene	100%	58-120%

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD4802-BS	CD117724.D	1	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.455	114	75-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	57-129%
98-08-8	aaa-Trifluorotoluene	119%	58-120%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F96957-7MS	CD117740.D	10	09/24/12	CP	n/a	n/a	GCD4802
F96957-7MSD	CD117741.D	10	09/24/12	CP	n/a	n/a	GCD4802
F96957-7	CD117739.D	10	09/24/12	CP	n/a	n/a	GCD4802

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11

CAS No.	Compound	F96957-7 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	4.71		4	8.79	102	8.65	99	2	75-129/13

CAS No.	Surrogate Recoveries	MS	MSD	F96957-7	Limits
460-00-4	4-Bromofluorobenzene	103%	108%	100%	57-129%
98-08-8	aaa-Trifluorotoluene	331%* b	332%* b	310%* a	58-120%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MB	ST110373.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	106%	38-127%
2051-24-3	Decachlorobiphenyl	96%	25-137%

Method Blank Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-MB	NN001558.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	42-114%

9.1.2

9

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-BS	ST110372.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.6	90	76-117
11096-82-5	Aroclor 1260	4	3.5	88	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	101%	38-127%
2051-24-3	Decachlorobiphenyl	91%	25-137%

9.2.1

9

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-BS	NN001557.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.737	74	60-140
	TPH (> C22-C36)	1	0.955	96	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	73%	42-114%

9.2.2

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43613-MS	ST110376.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
OP43613-MSD	ST110377.D	1	09/20/12	MV	09/19/12	OP43613	GST2658
F96920-7	ST110375.D	1	09/20/12	MV	09/19/12	OP43613	GST2658

The QC reported here applies to the following samples: **Method:** SW846 8082A

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	F96920-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		8	7.2	90	7.4	93	3	76-117/16
11096-82-5	Aroclor 1260	ND		8	7.5	94	7.8	98	4	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
877-09-8	Tetrachloro-m-xylene	97%	99%	101%	38-127%
2051-24-3	Decachlorobiphenyl	99%	103%	97%	25-137%

9.3.1

9

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F96955
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43599-MS	NN001563.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
OP43599-MSD	NN001564.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67
F96920-7	NN001562.D	1	09/24/12	NJ	09/18/12	OP43599	GNN67

The QC reported here applies to the following samples: **Method:** SW846 8015C

F96955-1, F96955-3, F96955-5, F96955-8, F96955-12

CAS No.	Compound	F96920-7 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	ND		1.92	2.01	105	1.52	79	28	60-140/30
	TPH (> C22-C36)	ND		1.92	2.68	139	2.07	108	26	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	F96920-7	Limits
84-15-1	o-Terphenyl	104%	77%	89%	42-114%

9.3.2

9

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23752
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	-0.022	<1.0

Associated samples MP23752: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23752
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12 09/26/12

Metal	F96903-1 Original	DUP	RPD	QC Limits	F96903-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	3.0	3	100.0	80-120

Associated samples MP23752: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23752
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	F96903-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	0.0	20

Associated samples MP23752: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23752
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP23752: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23752
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	F96903-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23752: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	15	2.8	<200
Antimony	6.0	1	1.3	0.50	<6.0
Arsenic	10	1	2.5	-0.30	<10
Barium	200	1	1	-0.10	<200
Beryllium	4.0	.1	.5	0.0	<4.0
Cadmium	5.0	.1	.5	0.0	<5.0
Calcium	1000	50	50	54.8	<1000
Chromium	10	1	2	0.10	<10
Cobalt	50	1	.5	-0.10	<50
Copper	25	1	1	0.0	<25
Iron	300	34	29	0.10	<300
Lead	5.0	1	1.1	0.10	<5.0
Magnesium	5000	50	74	7.5	<5000
Manganese	15	1	.7	0.20	<15
Molybdenum	50	1	1		
Nickel	40	1	.5	-0.50	<40
Potassium	10000	50	200	-10	<10000
Selenium	10	2	2	-2.7	<10
Silver	10	1	.5	-0.20	<10
Sodium	10000	750	500	11.3	<10000
Strontium	10	1	.5		
Thallium	10	1	1.3	-0.50	<10
Tin	50	1	1.8		
Titanium	10	1.1	1		
Vanadium	50	1	1	0.10	<50
Zinc	20	1	5	1.0	<20

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12 09/27/12

Metal	F96955-1 Original	DUP	RPD	QC Limits	F96955-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	806	818	1.5	0-20	806	31800	27000	114.8	80-120
Antimony	4.5	0.00 (a)	0.0	0-20	4.5	504 (a)	500	100.8	80-120
Arsenic	16.4	14.9	9.6	0-20	16.4	2270	2000	112.7	80-120
Barium	23.4	23.6	0.9	0-20	23.4	2170	2000	107.3	80-120
Beryllium	0.10	0.0	200.0(b)	0-20	0.10	51.7	50	103.2	80-120
Cadmium	0.0	0.0 (a)	NC	0-20	0.0	51.3 (a)	50	102.6	80-120
Calcium	549000	613000	2.3	0-20	549000	587000	25000	-48.0(c)	80-120
Chromium	1.4	0.0 (a)	0.0	0-20	1.4	222 (a)	200	111.0	80-120
Cobalt	3.6	3.7	2.7	0-20	3.6	489	500	97.1	80-120
Copper	2.5	2.3	8.3	0-20	2.5	293	250	116.2	80-120
Iron	750	748	0.3	0-20	750	28200	26000	105.6	80-120
Lead	0.0	0.00 (a)	NC	0-20	0.0	505 (a)	500	101.0	80-120
Magnesium	357000	368000	3.0	0-20	357000	362000	25000	20.0 (c)	80-120
Manganese	185	189	2.1	0-20	185	676	500	98.2	80-120
Molybdenum									
Nickel	3.6	3.5	2.8	0-20	3.6	490	500	97.3	80-120
Potassium	27000	28200	4.3	0-20	27000	55700	25000	114.8	80-120
Selenium	0.0	0.00 (a)	NC	0-20	0.0	2170 (a)	2000	108.5	80-120
Silver	0.0	0.0	NC	0-20	0.0	54.8	50	109.6	80-120
Sodium	797000	851000	2.4	0-20	797000	812000	25000	-76.0(c)	80-120
Strontium									
Thallium	3.0	0.00 (a)	200.0(b)	0-20	3.0	2060 (a)	2000	99.4	80-120
Tin									
Titanium									
Vanadium	78.5	80.4	2.4	0-20	78.5	576	500	99.5	80-120
Zinc	7.4	0.0 (a)	0.0	0-20	7.4	542 (a)	500	108.4	80-120

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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) Elevated reporting limit(s) due to matrix interference.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) 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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	F96955-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	806	32200	27000	116.3	1.3	20
Antimony	4.5	487 (a)	500	97.4	3.4	20
Arsenic	16.4	2140	2000	106.2	5.9	20
Barium	23.4	2060	2000	101.8	5.2	20
Beryllium	0.10	48.8	50	97.4	5.8	20
Cadmium	0.0	45.7 (a)	50	91.4	11.5	20
Calcium	549000	611000	25000	48.0 (b)	4.0	20
Chromium	1.4	200 (a)	200	100.0	10.4	20
Cobalt	3.6	461	500	91.5	5.9	20
Copper	2.5	279	250	110.6	4.9	20
Iron	750	28300	26000	106.0	0.4	20
Lead	0.0	467 (a)	500	93.4	7.8	20
Magnesium	357000	381000	25000	96.0	5.1	20
Manganese	185	651	500	93.2	3.8	20
Molybdenum						
Nickel	3.6	462	500	91.7	5.9	20
Potassium	27000	58100	25000	124.4N(c	4.2	20
Selenium	0.0	2010 (a)	2000	100.5	7.7	20
Silver	0.0	51.8	50	103.6	5.6	20
Sodium	797000	844000	25000	52.0 (b)	3.9	20
Strontium						
Thallium	3.0	1910 (a)	2000	91.9	7.6	20
Tin						
Titanium						
Vanadium	78.5	549	500	94.1	4.8	20
Zinc	7.4	497 (a)	500	99.4	8.7	20

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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) Elevated reporting limit(s) due to matrix interference.
(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.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	29100	27000	107.8	80-120
Antimony	492	500	98.4	80-120
Arsenic	1930	2000	96.5	80-120
Barium	2040	2000	102.0	80-120
Beryllium	50.7	50	101.4	80-120
Cadmium	49.2	50	98.4	80-120
Calcium	25900	25000	103.6	80-120
Chromium	205	200	102.5	80-120
Cobalt	506	500	101.2	80-120
Copper	253	250	101.2	80-120
Iron	27700	26000	106.5	80-120
Lead	475	500	95.0	80-120
Magnesium	24600	25000	98.4	80-120
Manganese	516	500	103.2	80-120
Molybdenum				
Nickel	515	500	103.0	80-120
Potassium	27900	25000	111.6	80-120
Selenium	1950	2000	97.5	80-120
Silver	47.8	50	95.6	80-120
Sodium	27300	25000	109.2	80-120
Strontium				
Thallium	1940	2000	97.0	80-120
Tin				
Titanium				
Vanadium	486	500	97.2	80-120
Zinc	506	500	101.2	80-120

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	F96955-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	806	849	5.3	0-10
Antimony	4.50	0.00	NC	0-10
Arsenic	16.4	13.9	15.2 (a)	0-10
Barium	23.4	23.9	2.1	0-10
Beryllium	0.100	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	549000	607000	1.3	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	3.60	0.00	100.0(a)	0-10
Copper	2.50	0.00	100.0(a)	0-10
Iron	750	735	1.9	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	357000	347000	2.9	0-10
Manganese	185	191	3.3	0-10
Molybdenum				
Nickel	3.60	0.00	100.0(a)	0-10
Potassium	27000	25900	4.2	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	797000	829000	0.2	0-10
Strontium				
Thallium	3.00	0.00	100.0(a)	0-10
Tin				
Titanium				
Vanadium	78.5	80.5	2.5	0-10
Zinc	7.40	0.00	NC	0-10

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23768
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	Sample ml	Final ml	F96955-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	805.9	789.782	3723	0.2	125	2500	117.3	80-120
Antimony	9.8	10	4.5	0	116.2	0.2	5	100	116.2	80-120
Arsenic	9.8	10	16.4	16.072	133.4	0.2	5	100	117.3	80-120
Barium	9.8	10	23.4	22.932	295.3	0.2	12.5	250	108.9	80-120
Beryllium	9.8	10	0.1	0.098	53.8	0.2	2.5	50	107.4	80-120
Cadmium	9.8	10	0	0	57.6	0.2	2.5	50	115.2	80-120
Calcium	9.8	10	549200	586922	613900	0.2	250	5000	539.6*(a	80-120
Chromium	9.8	10	0	0	64.9	0.2	2.5	50	129.8*(a	80-120
Cobalt	9.8	10	3.6	3.528	54	0.2	2.5	50	100.9	80-120
Copper	9.8	10	2.5	2.45	124.9	0.2	5	100	122.5*(a	80-120
Iron	9.8	10	749.7	734.706	3998	0.2	150	3000	108.8	80-120
Lead	9.8	10	0	0	74.2	0.2	2.5	50	148.4*(a	80-120
Magnesium	9.8	10	357300	350154	361000	0.2	250	5000	216.9*(a	80-120
Manganese	9.8	10	184.6	180.908	235.3	0.2	2.5	50	108.8	80-120
Molybdenum										
Nickel	9.8	10	3.6	3.528	103.5	0.2	5	100	100.0	80-120
Potassium	9.8	10	27030	26489.4	39240	0.2	500	10000	127.5*(a	80-120
Selenium	9.8	10	0	0	132.2	0.2	5	100	132.2*(a	80-120
Silver	9.8	10	0	0	56.4	0.2	2.5	50	112.8	80-120
Sodium	9.8	10	796900	814674	863400	0.2	500	10000	487.3*(a	80-120
Strontium										
Thallium	9.8	10	3	70.462	146.7	0.2	5	100	76.2*(a)	80-120
Tin										
Titanium										
Vanadium	9.8	10	78.5	76.93	132.1	0.2	2.5	50	110.3	80-120
Zinc	9.8	10	7.4	0	350.4	0.2	12.5	250	140.2*(a	80-120

Associated samples MP23768: F96955-1, F96955-3, F96955-5, F96955-7, F96955-10, F96955-11, F96955-1F, F96955-3F, F96955-5F, F96955-8F

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.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN51842	100	0.0	mg/l				

Associated Samples:
Batch GN51842: F96955-1, F96955-10, F96955-11, F96955-3, F96955-5, F96955-7
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F96955
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN51842	F96955-10	mg/l	6930	6950	0.3	0-5%

Associated Samples:
Batch GN51842: F96955-1, F96955-10, F96955-11, F96955-3, F96955-5, F96955-7
(*) Outside of QC limits

Southeast ACCUTEST LABORATORIES

10/04/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F97042

Sampling Date: 09/17/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **58**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Section 8: Metals Analysis - QC Data Summaries **47**
8.1: Prep QC MP23753: Hg 48
8.2: Prep QC MP23770: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na, Tl,V,Zn 53

Accutest Laboratories

Sample Summary

Nation View

Job No: F97042

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97042-1	09/17/12	08:20	BP	09/18/12	AQ	Ground Water	SS18-MW04
F97042-1F	09/17/12	08:20	BP	09/18/12	AQ	Groundwater Filtered	SS18-MW04
F97042-2	09/17/12	07:45	BP	09/18/12	AQ	Ground Water	SS18-MW20
F97042-2F	09/17/12	07:45	BP	09/18/12	AQ	Groundwater Filtered	SS18-MW20

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F97042

Site: Holloman AFB; SS18 **Report Date** 10/4/2012 1:03:24 PM

2 Samples and were collected on 09/17/2012 and were received at Accutest on 09/18/2012 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F97042. 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.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43688

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) F97191-2MS, F97191-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzidine are outside control limits. SB recovery is biased high. Analyte is non-detect in associated sample; therefore data integrity is not compromised.

Matrix Spike Recovery(s) for 3,3’-Dichlorobenzidine, 4-Nitrophenol, Benzoic Acid, Phenol are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, 3,3'-Dichlorobenzidine, 4-Nitrophenol, Benzoic Acid, N-Nitrosodimethylamine, Phenol are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for 3,3’-Dichlorobenzidine are outside control limits for sample OP43688-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP43688-BS has surrogates outside control limits. Probable cause due to matrix interference.

OP43688-BS for Phenol-d5: Outside control limits.

Sample(s) OP43688-MS, OP43688-MSD have surrogates outside control limits. Probable cause due to matrix interference.

F97042-1 for Benzidine: Associated BS recovery outside control limits.

OP43688-MS for 2-Fluorophenol: Outside control limits.

OP43688-MS for Phenol-d5: Outside control limits.

OP43688-MSD for 2-Fluorophenol: Outside control limits.

OP43688-MSD for Phenol-d5: Outside control limits.

F97042-2: Insufficient sample available for analysis. Client re- sampled; results are in Job# F97531.

Extractables by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** OP43653

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.

OP43653-BS: Insufficient sample for MS/MSD.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP43658

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) F97042-2MS, F97042-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23770

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) F96984-9DUP, F96984-9MS, F96984-9MSD, F96984-9PS, F96984-9SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Vanadium are outside control limits for sample MP23770-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Chromium, Sodium, Vanadium are outside control limits for sample MP23770-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F97042-2F for Antimony: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Cadmium: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Chromium: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Copper: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Lead: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Manganese: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Selenium: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Thallium: Elevated reporting limit(s) due to matrix interference.

F97042-2F for Zinc: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP23753

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) F97181-9FDUP, F97181-9FMS, F97181-9FMSD, F97181-9FSDL were used as the QC samples for metals.

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 4, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F97042
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/17/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97042-1	**SS18-MW04**					
TPH (C10-C22)		0.164 J	0.24	0.096	mg/l	SW846 8015C
TPH (> C22-C36)		0.247	0.24	0.096	mg/l	SW846 8015C
F97042-1F	**SS18-MW04**					
Aluminum		47.4 J	200	15	ug/l	SW846 6010C
Antimony		4.6 J	6.0	1.3	ug/l	SW846 6010C
Arsenic		16.0	10	2.5	ug/l	SW846 6010C
Barium		14.9 J	200	1.0	ug/l	SW846 6010C
Calcium		534000	1000	50	ug/l	SW846 6010C
Chromium		2.0 J	10	2.0	ug/l	SW846 6010C
Copper		10.9 J	25	1.0	ug/l	SW846 6010C
Magnesium		431000	5000	74	ug/l	SW846 6010C
Manganese		2.6 J	15	0.70	ug/l	SW846 6010C
Nickel		6.5 J	40	0.50	ug/l	SW846 6010C
Potassium		15000	10000	200	ug/l	SW846 6010C
Sodium		1660000	500000	25000	ug/l	SW846 6010C
Thallium		1.6 J	10	1.3	ug/l	SW846 6010C
Vanadium		103	50	1.0	ug/l	SW846 6010C
Zinc		7.7 J	20	5.0	ug/l	SW846 6010C
F97042-2	**SS18-MW20**					
TPH (> C22-C36)		0.271	0.24	0.096	mg/l	SW846 8015C
F97042-2F	**SS18-MW20**					
Aluminum		52.3 J	200	15	ug/l	SW846 6010C
Antimony [a]		8.7 J	12	2.6	ug/l	SW846 6010C
Arsenic		18.0	10	2.5	ug/l	SW846 6010C
Barium		20.9 J	200	1.0	ug/l	SW846 6010C
Calcium		726000	2000	100	ug/l	SW846 6010C
Copper [a]		7.4 J	50	2.0	ug/l	SW846 6010C
Lead [a]		5.4 J	10	2.2	ug/l	SW846 6010C
Magnesium		913000	10000	150	ug/l	SW846 6010C
Manganese [a]		22.0 J	30	1.4	ug/l	SW846 6010C
Nickel		13.6 J	40	0.50	ug/l	SW846 6010C
Potassium		20000	10000	200	ug/l	SW846 6010C
Selenium [a]		7.9 J	20	4.0	ug/l	SW846 6010C
Sodium		3750000	500000	25000	ug/l	SW846 6010C
Thallium [a]		8.6 J	20	2.6	ug/l	SW846 6010C
Vanadium		184	50	1.0	ug/l	SW846 6010C

Summary of Hits

Job Number: F97042
Account: Nation View
Project: Holloman AFB; SS18
Collected: 09/17/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW04		
Lab Sample ID:	F97042-1	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025630.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.48	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	0.48	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.48	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.52	ug/l	
	3&4-Methylphenol	ND	4.8	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.52	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol	ND	24	5.2	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.48	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.48	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.48	ug/l	
62-53-3	Aniline	ND	4.8	0.50	ug/l	
120-12-7	Anthracene	ND	4.8	0.48	ug/l	
92-87-5	Benzidine [a]	ND	24	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.48	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.48	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.48	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.48	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.48	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.48	ug/l	
86-74-8	Carbazole	ND	4.8	0.48	ug/l	
218-01-9	Chrysene	ND	4.8	0.48	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:	SS18-MW04		
Lab Sample ID:	F97042-1	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.48	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.52	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.50	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.48	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	0.95	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.48	ug/l	
86-73-7	Fluorene	ND	4.8	0.48	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.54	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.6	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.48	ug/l	
78-59-1	Isophorone	ND	4.8	0.48	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.55	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	0.48	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.48	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	0.48	ug/l	
91-20-3	Naphthalene	ND	4.8	0.77	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.57	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.8	2.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.48	ug/l	
129-00-0	Pyrene	ND	4.8	0.48	ug/l	
110-86-1	Pyridine	ND	9.6	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.48	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:	SS18-MW04		
Lab Sample ID:	F97042-1	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		14-62%
4165-62-2	Phenol-d5	35%		10-40%
118-79-6	2,4,6-Tribromophenol	108%		33-118%
4165-60-0	Nitrobenzene-d5	91%		42-108%
321-60-8	2-Fluorobiphenyl	93%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

(a) Associated BS recovery outside 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:	SS18-MW04		
Lab Sample ID:	F97042-1	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110514.D	1	09/24/12	MV	09/21/12	OP43658	GST2660
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		38-127%
2051-24-3	Decachlorobiphenyl	91%		25-137%

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:	SS18-MW04		
Lab Sample ID:	F97042-1	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001536.D	1	09/22/12	NJ	09/21/12	OP43653	GNN66
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	0.164	0.24	0.096	mg/l	J
	TPH (> C22-C36)	0.247	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		42-114%

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: SS18-MW04
Lab Sample ID: F97042-1F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/17/12
Date Received: 09/18/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	47.4 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Antimony	4.6 J	6.0	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Arsenic	16.0	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Barium	14.9 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Cadmium	0.50 U	5.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Calcium	534000	1000	50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Chromium	2.0 J	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Cobalt	0.50 U	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Copper	10.9 J	25	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Lead	1.1 U	5.0	1.1	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Magnesium	431000	5000	74	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Manganese	2.6 J	15	0.70	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [4]
Nickel	6.5 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Potassium	15000	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Selenium	2.0 U	10	2.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Sodium	1660000	500000	25000	ug/l	50	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3050B [5]
Thallium	1.6 J	10	1.3	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Vanadium	103	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]
Zinc	7.7 J	20	5.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA10175
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Prep QC Batch: MP23753
(5) Prep QC Batch: MP23770

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SS18-MW20		
Lab Sample ID:	F97042-2	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST110517.D	1	09/24/12	MV	09/21/12	OP43658	GST2660
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.49	0.19	ug/l	
11104-28-2	Aroclor 1221	ND	0.49	0.24	ug/l	
11141-16-5	Aroclor 1232	ND	0.49	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.49	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.49	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.49	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.49	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		38-127%
2051-24-3	Decachlorobiphenyl	88%		25-137%

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:	SS18-MW20		
Lab Sample ID:	F97042-2	**Date Sampled:**	09/17/12
Matrix:	AQ - Ground Water	**Date Received:**	09/18/12
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN001537.D	1	09/22/12	NJ	09/21/12	OP43653	GNN66
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.24	0.096	mg/l	
	TPH (> C22-C36)	0.271	0.24	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		42-114%

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: SS18-MW20
Lab Sample ID: F97042-2F
Matrix: AQ - Groundwater Filtered
Project: Holloman AFB; SS18

Date Sampled: 09/17/12
Date Received: 09/18/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	52.3 J	200	15	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Antimony [a]	8.7 J	12	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Arsenic	18.0	10	2.5	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Barium	20.9 J	200	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Beryllium	0.50 U	4.0	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Cadmium [a]	1.0 U	10	1.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Calcium	726000	2000	100	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Chromium [a]	4.0 U	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Cobalt	0.50 U	50	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Copper [a]	7.4 J	50	2.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Iron	29 U	300	29	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Lead [a]	5.4 J	10	2.2	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Magnesium	913000	10000	150	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Manganese [a]	22.0 J	30	1.4	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Mercury	0.050 U	1.0	0.050	ug/l	1	09/26/12	09/26/12	JL	SW846 7470A [1]	SW846 7470A [5]
Nickel	13.6 J	40	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Potassium	20000	10000	200	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Selenium [a]	7.9 J	20	4.0	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Silver	0.50 U	10	0.50	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Sodium	3750000	500000	25000	ug/l	50	09/27/12	10/02/12	LM	SW846 6010C [3]	SW846 3050B [6]
Thallium [a]	8.6 J	20	2.6	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]
Vanadium	184	50	1.0	ug/l	1	09/27/12	09/28/12	LM	SW846 6010C [2]	SW846 3050B [6]
Zinc [a]	10 U	40	10	ug/l	2	09/27/12	10/03/12	LM	SW846 6010C [4]	SW846 3050B [6]

(1) Instrument QC Batch: MA10175
(2) Instrument QC Batch: MA10186
(3) Instrument QC Batch: MA10193
(4) Instrument QC Batch: MA10198
(5) Prep QC Batch: MP23753
(6) Prep QC Batch: MP23770

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F97042

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NV Project No: 11-0020.01.030

COC Number(1): 09172012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (3)	Sample Number (2)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
									Sample Analysis Requested (5)									Quality Assurance Samples (6)			
1	SS18-MW04	SS18-MW04	17-09-2012	0820	-	N		WG	4			X	X	X	X						
2	SS18-MW20	SS18-MW20	17-09-2012	0745	-	N		WG	4			X	X	X	X						
	Trip Blank				-	TB			1												
					-																
					-																
					-																
					-																
					-																
					-																
					-																
					-																

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Brian Parrish	09/17/12	10:00	FX		09:30
2.	FX			J. Cerrate (ABE)	9-18-12	
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 7989 7900 5822

Analytical Lab: Accutest Labs Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.2

F97042: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97042 CLIENT: NATIONVIEW PROJECT: SS-18 ACM

DATE/TIME RECEIVED: 9-18-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7989 7900 5822

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
- [X] TRIP BLANK NOT PROVIDED
- [X] 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: 2.8
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] 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: RECEIVED ONLY 1 AMBER (30ml DRO) PER SAMPLE

TECHNICIAN SIGNATURE/DATE [illegible] 9-18-12 REVIEWER SIGNATURE/DATE 09-18-12 [illegible]

NF 12/10

receipt confirmation 122910.xls

5.1 5

F97042: Chain of Custody
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Job Change Order: F97042_9/26/2012

Requested Date:	9/26/2012	**Received Date:**	9/18/2012
Account Name:	Nation View	**Due Date:**	10/2/2012
Project	Holloman AFB; SS18	**Deliverable:**	COMMBN
CSR:	JDS	**TAT (Days):**	1

Sample #:
F97042-2

SS18-MW20

Change: Client has been notified that insufficient sample volume remains for 8270 analysis. Please remove test code and add report comment regarding this. Thank you.

Above Changes Per: Lab **Date:** 9/26/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

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F97042: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	X025629.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	X025629.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	X025629.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	14-62%
4165-62-2	Phenol-d5	39%	10-40%
118-79-6	2,4,6-Tribromophenol	106%	33-118%
4165-60-0	Nitrobenzene-d5	89%	42-108%
321-60-8	2-Fluorobiphenyl	92%	40-106%
1718-51-0	Terphenyl-d14	110%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004281.D	1	09/26/12	FS	09/24/12	OP43688	ST218

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004281.D	1	09/26/12	FS	09/24/12	OP43688	ST218

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004281.D	1	09/26/12	FS	09/24/12	OP43688	ST218

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	14-62%
4165-62-2	Phenol-d5	38%	10-40%
118-79-6	2,4,6-Tribromophenol	91%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	L059621.D	1	09/27/12	NAF	09/24/12	OP43688	SL3036

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	L059621.D	1	09/27/12	NAF	09/24/12	OP43688	SL3036

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	L059621.D	1	09/27/12	NAF	09/24/12	OP43688	SL3036

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	14-62%
4165-62-2	Phenol-d5	39%	10-40%
118-79-6	2,4,6-Tribromophenol	98%	33-118%
4165-60-0	Nitrobenzene-d5	91%	42-108%
321-60-8	2-Fluorobiphenyl	87%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004311.D	1	09/28/12	FS	09/24/12	OP43688	ST220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.50	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.50	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.54	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.4	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.50	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.50	ug/l	
62-53-3	Aniline	ND	5.0	0.52	ug/l	
120-12-7	Anthracene	ND	5.0	0.50	ug/l	
92-87-5	Benzidine	ND	25	4.7	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.50	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.50	ug/l	
86-74-8	Carbazole	ND	5.0	0.50	ug/l	
218-01-9	Chrysene	ND	5.0	0.50	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.50	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.54	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004311.D	1	09/28/12	FS	09/24/12	OP43688	ST220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.52	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.99	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.1	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.50	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.56	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.9	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.50	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.57	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.50	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.50	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.50	ug/l	
91-20-3	Naphthalene	ND	5.0	0.80	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.59	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	2.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.50	ug/l	
129-00-0	Pyrene	ND	5.0	0.50	ug/l	
110-86-1	Pyridine	ND	10	1.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MB	T004311.D	1	09/28/12	FS	09/24/12	OP43688	ST220

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	14-62%
4165-62-2	Phenol-d5	36%	10-40%
118-79-6	2,4,6-Tribromophenol	88%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	75%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-BS	X025628.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	36.4	36	10-50
95-57-8	2-Chlorophenol	50	43.5	87	44-103
59-50-7	4-Chloro-3-methyl phenol	50	49.1	98	53-105
120-83-2	2,4-Dichlorophenol	50	48.2	96	53-108
105-67-9	2,4-Dimethylphenol	50	41.3	83	37-91
51-28-5	2,4-Dinitrophenol	100	97.3	97	37-111
534-52-1	4,6-Dinitro-o-cresol	100	115	115	62-115
95-48-7	2-Methylphenol	50	39.6	79	35-91
	3&4-Methylphenol	100	79.4	79	32-85
88-75-5	2-Nitrophenol	50	47.7	95	49-111
100-02-7	4-Nitrophenol	100	49.5	50	13-55
87-86-5	Pentachlorophenol	100	104	104	57-118
108-95-2	Phenol	50	23.9	48	13-54
95-95-4	2,4,5-Trichlorophenol	50	49.6	99	59-106
88-06-2	2,4,6-Trichlorophenol	50	48.9	98	58-107
83-32-9	Acenaphthene	50	50.1	100	58-106
208-96-8	Acenaphthylene	50	49.5	99	58-105
62-53-3	Aniline	50	43.0	86	43-98
120-12-7	Anthracene	50	53.3	107	65-108
92-87-5	Benzidine	50	39.6	79*	15-73
56-55-3	Benzo(a)anthracene	50	52.0	104	63-111
50-32-8	Benzo(a)pyrene	50	49.8	100	62-106
205-99-2	Benzo(b)fluoranthene	50	54.7	109	63-109
191-24-2	Benzo(g,h,i)perylene	50	55.3	111	61-111
207-08-9	Benzo(k)fluoranthene	50	51.0	102	64-111
101-55-3	4-Bromophenyl phenyl ether	50	53.3	107	64-107
85-68-7	Butyl benzyl phthalate	50	52.0	104	59-114
100-51-6	Benzyl Alcohol	50	42.6	85	34-98
91-58-7	2-Chloronaphthalene	50	48.0	96	54-105
106-47-8	4-Chloroaniline	50	49.3	99	53-103
86-74-8	Carbazole	50	53.1	106	66-109
218-01-9	Chrysene	50	52.0	104	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	47.3	95	48-101
111-44-4	bis(2-Chloroethyl)ether	50	44.8	90	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	43.5	87	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	50.3	101	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-BS	X025628.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	38.2	76	41-102
122-66-7	1,2-Diphenylhydrazine	50	53.2	106	61-110
541-73-1	1,3-Dichlorobenzene	50	36.9	74	38-100
106-46-7	1,4-Dichlorobenzene	50	37.5	75	40-100
121-14-2	2,4-Dinitrotoluene	50	50.8	102	60-109
606-20-2	2,6-Dinitrotoluene	50	51.1	102	58-104
91-94-1	3,3'-Dichlorobenzidine	50	44.2	88	57-105
53-70-3	Dibenzo(a,h)anthracene	50	55.4	111	62-112
132-64-9	Dibenzofuran	50	50.1	100	61-108
84-74-2	Di-n-butyl phthalate	50	53.1	106	62-109
117-84-0	Di-n-octyl phthalate	50	52.2	104	60-120
84-66-2	Diethyl phthalate	50	51.8	104	62-109
131-11-3	Dimethyl phthalate	50	51.1	102	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.9	104	59-116
206-44-0	Fluoranthene	50	52.8	106	65-114
86-73-7	Fluorene	50	50.9	102	61-106
118-74-1	Hexachlorobenzene	50	53.7	107	62-107
87-68-3	Hexachlorobutadiene	50	39.1	78	38-107
77-47-4	Hexachlorocyclopentadiene	50	38.8	78	19-84
67-72-1	Hexachloroethane	50	36.0	72	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	55.8	112	61-113
78-59-1	Isophorone	50	40.2	80	56-111
90-12-0	1-Methylnaphthalene	50	46.9	94	52-102
91-57-6	2-Methylnaphthalene	50	46.4	93	56-112
88-74-4	2-Nitroaniline	50	51.5	103	60-109
99-09-2	3-Nitroaniline	50	48.0	96	52-107
100-01-6	4-Nitroaniline	50	52.1	104	59-111
91-20-3	Naphthalene	50	44.3	89	50-104
98-95-3	Nitrobenzene	50	48.0	96	52-105
62-75-9	N-Nitrosodimethylamine	50	32.5	65	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	47.0	94	51-104
86-30-6	N-Nitrosodiphenylamine	50	54.1	108	57-110
85-01-8	Phenanthrene	50	54.2	108	65-108
129-00-0	Pyrene	50	52.6	105	60-113
110-86-1	Pyridine	50	30.4	61	15-67
120-82-1	1,2,4-Trichlorobenzene	50	41.4	83	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-BS	X025628.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	60%	14-62%
4165-62-2	Phenol-d5	43%* [a]	10-40%
118-79-6	2,4,6-Tribromophenol	102%	33-118%
4165-60-0	Nitrobenzene-d5	92%	42-108%
321-60-8	2-Fluorobiphenyl	95%	40-106%
1718-51-0	Terphenyl-d14	105%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MS	X025636.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
OP43688-MSD	X025637.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
F97191-2	X025635.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	F97191-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	50 U		200	120	60*	116	58*	3	10-50/40
95-57-8	2-Chlorophenol	5.0 U		100	84.4	84	88.3	88	5	44-103/29
59-50-7	4-Chloro-3-methyl phenol	5.0 U		100	96.3	96	99.3	99	3	53-105/24
120-83-2	2,4-Dichlorophenol	5.0 U		100	94.2	94	99.0	99	5	53-108/26
105-67-9	2,4-Dimethylphenol	5.0 U		100	72.3	72	73.6	74	2	37-91/28
51-28-5	2,4-Dinitrophenol	25 U		200	174	87	171	86	2	37-111/30
534-52-1	4,6-Dinitro-o-cresol	10 U		200	209	105	206	103	1	62-115/26
95-48-7	2-Methylphenol	5.0 U		100	81.3	81	85.0	85	4	35-91/30
	3&4-Methylphenol	5.0 U		200	167	84	173	87*	4	32-85/29
88-75-5	2-Nitrophenol	5.0 U		100	92.8	93	96.8	97	4	49-111/30
100-02-7	4-Nitrophenol	25 U		200	137	69*	133	67*	3	13-55/31
87-86-5	Pentachlorophenol	25 U		200	213	107	206	103	3	57-118/26
108-95-2	Phenol	5.0 U		100	57.8	58*	60.2	60*	4	13-54/34
95-95-4	2,4,5-Trichlorophenol	5.0 U		100	93.5	94	94.7	95	1	59-106/23
88-06-2	2,4,6-Trichlorophenol	5.0 U		100	94.7	95	96.2	96	2	58-107/24
83-32-9	Acenaphthene	5.0 U		100	93.6	94	96.4	96	3	58-106/21
208-96-8	Acenaphthylene	5.0 U		100	92.7	93	95.5	96	3	58-105/21
62-53-3	Aniline	5.0 U		100	78.7	79	81.9	82	4	43-98/28
120-12-7	Anthracene	5.0 U		100	99.6	100	98.0	98	2	65-108/19
92-87-5	Benzidine	25 U		100	22.5	23	20.8	21	8	15-73/23
56-55-3	Benzo(a)anthracene	5.0 U		100	102	102	99.9	100	2	63-111/19
50-32-8	Benzo(a)pyrene	5.0 U		100	92.7	93	87.7	88	6	62-106/20
205-99-2	Benzo(b)fluoranthene	5.0 U		100	103	103	101	101	2	63-109/20
191-24-2	Benzo(g,h,i)perylene	5.0 U		100	103	103	98.2	98	5	61-111/21
207-08-9	Benzo(k)fluoranthene	5.0 U		100	98.4	98	100	100	2	64-111/20
101-55-3	4-Bromophenyl phenyl ether	5.0 U		100	104	104	102	102	2	64-107/20
85-68-7	Butyl benzyl phthalate	5.0 U		100	104	104	101	101	3	59-114/20
100-51-6	Benzyl Alcohol	5.0 U		100	88.9	89	92.1	92	4	34-98/27
91-58-7	2-Chloronaphthalene	5.0 U		100	92.5	93	95.2	95	3	54-105/24
106-47-8	4-Chloroaniline	5.0 U		100	80.1	80	84.8	85	6	53-103/22
86-74-8	Carbazole	5.0 U		100	105	105	104	104	1	66-109/20
218-01-9	Chrysene	5.0 U		100	103	103	98.1	98	5	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	5.0 U		100	90.8	91	95.1	95	5	48-101/28
111-44-4	bis(2-Chloroethyl)ether	5.0 U		100	78.4	78	84.6	85	8	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	5.0 U		100	84.3	84	90.8	91	7	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U		100	97.1	97	97.2	97	0	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MS	X025636.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
OP43688-MSD	X025637.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
F97191-2	X025635.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Compound	F97191-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	5.0 U		100	83.5	84	89.1	89	6	41-102/28
122-66-7	1,2-Diphenylhydrazine	5.0 U		100	102	102	100	100	2	61-110/20
541-73-1	1,3-Dichlorobenzene	5.0 U		100	78.0	78	83.8	84	7	38-100/28
106-46-7	1,4-Dichlorobenzene	5.0 U		100	80.4	80	85.4	85	6	40-100/28
121-14-2	2,4-Dinitrotoluene	5.0 U		100	95.5	96	94.1	94	1	60-109/20
606-20-2	2,6-Dinitrotoluene	5.0 U		100	98.5	99	98.5	99	0	58-104/21
91-94-1	3,3'-Dichlorobenzidine	10 U		100	41.7	42*	31.2	31*	29*	57-105/25
53-70-3	Dibenzo(a,h)anthracene	5.0 U		100	105	105	102	102	3	62-112/20
132-64-9	Dibenzofuran	5.0 U		100	98.1	98	97.0	97	1	61-108/20
84-74-2	Di-n-butyl phthalate	5.0 U		100	104	104	101	101	3	62-109/20
117-84-0	Di-n-octyl phthalate	5.0 U		100	106	106	102	102	4	60-120/24
84-66-2	Diethyl phthalate	5.0 U		100	99.9	100	98.9	99	1	62-109/19
131-11-3	Dimethyl phthalate	5.0 U		100	95.5	96	94.7	95	1	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	5.0 U		100	105	105	100	100	5	59-116/21
206-44-0	Fluoranthene	5.0 U		100	103	103	101	101	2	65-114/21
86-73-7	Fluorene	5.0 U		100	96.0	96	98.2	98	2	61-106/19
118-74-1	Hexachlorobenzene	5.0 U		100	103	103	103	103	0	62-107/20
87-68-3	Hexachlorobutadiene	5.0 U		100	87.5	88	92.4	92	5	38-107/30
77-47-4	Hexachlorocyclopentadiene	10 U		100	70.1	70	78.7	79	12	19-84/35
67-72-1	Hexachloroethane	5.0 U		100	82.7	83	88.0	88	6	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	5.0 U		100	107	107	103	103	4	61-113/20
78-59-1	Isophorone	5.0 U		100	77.0	77	80.0	80	4	56-111/26
90-12-0	1-Methylnaphthalene	5.0 U		100	92.9	93	97.8	98	5	52-102/25
91-57-6	2-Methylnaphthalene	5.0 U		100	92.1	92	96.4	96	5	56-112/26
88-74-4	2-Nitroaniline	5.0 U		100	94.3	94	94.3	94	0	60-109/20
99-09-2	3-Nitroaniline	5.0 U		100	86.6	87	86.0	86	1	52-107/21
100-01-6	4-Nitroaniline	5.0 U		100	87.8	88	88.2	88	0	59-111/21
91-20-3	Naphthalene	5.0 U		100	88.8	89	94.1	94	6	50-104/28
98-95-3	Nitrobenzene	5.0 U		100	93.1	93	98.1	98	5	52-105/28
62-75-9	N-Nitrosodimethylamine	5.0 U		100	70.3	70	74.7	75*	6	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	5.0 U		100	90.7	91	94.3	94	4	51-104/28
86-30-6	N-Nitrosodiphenylamine	5.0 U		100	103	103	102	102	1	57-110/19
85-01-8	Phenanthrene	5.0 U		100	105	105	105	105	0	65-108/20
129-00-0	Pyrene	5.0 U		100	106	106	102	102	4	60-113/20
110-86-1	Pyridine	10 U		100	60.3	60	62.7	63	4	15-67/40
120-82-1	1,2,4-Trichlorobenzene	5.0 U		100	86.7	87	90.8	91	5	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43688-MS	X025636.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
OP43688-MSD	X025637.D	1	09/25/12	FS	09/24/12	OP43688	SX1240
F97191-2	X025635.D	1	09/25/12	FS	09/24/12	OP43688	SX1240

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97042-1

CAS No.	Surrogate Recoveries	MS	MSD	F97191-2	Limits
367-12-4	2-Fluorophenol	69%* [a]	71%* [a]	40%	14-62%
4165-62-2	Phenol-d5	57%* [a]	58%* [a]	26%	10-40%
118-79-6	2,4,6-Tribromophenol	104%	102%	94%	33-118%
4165-60-0	Nitrobenzene-d5	90%	94%	72%	42-108%
321-60-8	2-Fluorobiphenyl	89%	93%	74%	40-106%
1718-51-0	Terphenyl-d14	107%	103%	95%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

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

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43658-MB	ST110512.D	1	09/24/12	MV	09/21/12	OP43658	GST2660

The QC reported here applies to the following samples: **Method:** SW846 8082A

F97042-1, F97042-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.20	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.20	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.20	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	38-127%
2051-24-3	Decachlorobiphenyl	86%	25-137%

Method Blank Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43653-MB	NN001535.D	1	09/22/12	NJ	09/21/12	OP43653	GNN66

The QC reported here applies to the following samples: **Method:** SW846 8015C

F97042-1, F97042-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	0.25	0.10	mg/l	
	TPH (> C22-C36)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	85%	42-114%

Blank Spike Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43658-BS	ST110511.D	1	09/24/12	MV	09/21/12	OP43658	GST2660

The QC reported here applies to the following samples: **Method:** SW846 8082A

F97042-1, F97042-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	4	3.5	88	76-117
11096-82-5	Aroclor 1260	4	2.7	68	65-117

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	98%	38-127%
2051-24-3	Decachlorobiphenyl	99%	25-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43653-BS [a]	NN001534.D	1	09/22/12	NJ	09/21/12	OP43653	GNN66

The QC reported here applies to the following samples: **Method:** SW846 8015C

F97042-1, F97042-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C22)	1	0.822	82	60-140
	TPH (> C22-C36)	1	1.14	114	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	42-114%

(a) Insufficient sample for MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97042
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43658-MS	ST110515.D	1	09/24/12	MV	09/21/12	OP43658	GST2660
OP43658-MSD	ST110516.D	1	09/24/12	MV	09/21/12	OP43658	GST2660
F97042-2	ST110517.D	1	09/24/12	MV	09/21/12	OP43658	GST2660

The QC reported here applies to the following samples: **Method:** SW846 8082A

F97042-1, F97042-2

CAS No.	Compound	F97042-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		7.69	7.3	95	7.4	96	1	76-117/16
11096-82-5	Aroclor 1260	ND		7.69	7.7	100	7.8	101	1	65-117/23

CAS No.	Surrogate Recoveries	MS	MSD	F97042-2	Limits
877-09-8	Tetrachloro-m-xylene	98%	100%	104%	38-127%
2051-24-3	Decachlorobiphenyl	97%	99%	88%	25-137%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23753
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	1.0	.04	.05	0.0028	<1.0

Associated samples MP23753: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23753
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12 09/26/12

Metal	F97181-9F Original	DUP	RPD	QC Limits	F97181-9F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	3.2	3	106.7	80-120

Associated samples MP23753: F97042-1F, F97042-2F

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

8.1.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23753
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	F97181-9F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	6.5	20

Associated samples MP23753: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23753
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP23753: F97042-1F, F97042-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23753
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/26/12

Metal	F97181-9F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP23753: F97042-1F, F97042-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	15	-7.6	<200
Antimony	6.0	1	1.3	-0.40	<6.0
Arsenic	10	1	2.5	-0.90	<10
Barium	200	1	1	-0.20	<200
Beryllium	4.0	.1	.5	-0.10	<4.0
Cadmium	5.0	.1	.5	-0.10	<5.0
Calcium	1000	50	50	19.5	<1000
Chromium	10	1	2	0.20	<10
Cobalt	50	1	.5	-0.10	<50
Copper	25	1	1	-0.20	<25
Iron	300	34	29	-1.1	<300
Lead	5.0	1	1.1	-0.10	<5.0
Magnesium	5000	50	74	-4.6	<5000
Manganese	15	1	.7	0.0	<15
Molybdenum	50	1	1		
Nickel	40	1	.5	-0.50	<40
Potassium	10000	50	200	-21	<10000
Selenium	10	2	2	0.0	<10
Silver	10	1	.5	0.20	<10
Sodium	10000	750	500	-14	<10000
Strontium	10	1	.5		
Thallium	10	1	1.3	-1.1	<10
Tin	50	1	1.8		
Titanium	10	1.1	1		
Vanadium	50	1	1	-0.10	<50
Zinc	20	1	5	-0.30	<20

Associated samples MP23770: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12 09/27/12

Metal	F96984-9 Original	DUP	RPD	QC Limits	F96984-9 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	1240	1130	9.3	0-20	1240	28000	27000	99.1	80-120
Antimony	0.0	0.0	NC	0-20	0.0	466	500	93.2	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	1830	2000	91.5	80-120
Barium	9.8	9.3	5.2	0-20	9.8	1900	2000	94.5	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	47.0	50	94.0	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	45.1	50	90.2	80-120
Calcium	24500	24700	0.8	0-20	24500	48100	25000	94.4	80-120
Chromium	2.1	1.9	10.0	0-20	2.1	187	200	92.5	80-120
Cobalt	0.0	0.0	NC	0-20	0.0	468	500	93.6	80-120
Copper	0.0	0.0	NC	0-20	0.0	237	250	94.8	80-120
Iron	601	579	3.7	0-20	601	25500	26000	95.8	80-120
Lead	0.0	0.0	NC	0-20	0.0	426	500	85.2	80-120
Magnesium	941	955	1.5	0-20	941	23700	25000	91.0	80-120
Manganese	10.6	10.7	0.9	0-20	10.6	475	500	92.9	80-120
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	473	500	94.6	80-120
Potassium	2470	2470	0.0	0-20	2470	26800	25000	97.3	80-120
Selenium	0.0	0.0	NC	0-20	0.0	1870	2000	93.5	80-120
Silver	0.0	0.0	NC	0-20	0.0	43.3	50	86.6	80-120
Sodium	1780	1780	0.0	0-20	1780	26500	25000	98.9	80-120
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1760	2000	88.0	80-120
Tin									
Titanium									
Vanadium	1.8	1.4	25.0 (a)	0-20	1.8	444	500	88.4	80-120
Zinc	0.0	0.0	NC	0-20	0.0	452	500	90.4	80-120

Associated samples MP23770: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	F96984-9 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	1240	28300	27000	100.2	1.1	20
Antimony	0.0	485	500	97.0	4.0	20
Arsenic	0.0	1910	2000	95.5	4.3	20
Barium	9.8	1970	2000	98.0	3.6	20
Beryllium	0.0	48.9	50	97.8	4.0	20
Cadmium	0.0	47.5	50	95.0	5.2	20
Calcium	24500	47900	25000	93.6	0.4	20
Chromium	2.1	194	200	96.0	3.7	20
Cobalt	0.0	489	500	97.8	4.4	20
Copper	0.0	246	250	98.4	3.7	20
Iron	601	25700	26000	96.5	0.8	20
Lead	0.0	443	500	88.6	3.9	20
Magnesium	941	23900	25000	91.8	0.8	20
Manganese	10.6	492	500	96.3	3.5	20
Molybdenum						
Nickel	0.0	494	500	98.8	4.3	20
Potassium	2470	26900	25000	97.7	0.4	20
Selenium	0.0	1950	2000	97.5	4.2	20
Silver	0.0	44.9	50	89.8	3.6	20
Sodium	1780	26800	25000	100.1	1.1	20
Strontium						
Thallium	0.0	1850	2000	92.5	5.0	20
Tin						
Titanium						
Vanadium	1.8	461	500	91.8	3.8	20
Zinc	0.0	472	500	94.4	4.3	20

Associated samples MP23770: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	28500	27000	105.6	80-120
Antimony	514	500	102.8	80-120
Arsenic	1990	2000	99.5	80-120
Barium	2100	2000	105.0	80-120
Beryllium	51.6	50	103.2	80-120
Cadmium	50.5	50	101.0	80-120
Calcium	25200	25000	100.8	80-120
Chromium	206	200	103.0	80-120
Cobalt	518	500	103.6	80-120
Copper	262	250	104.8	80-120
Iron	26500	26000	101.9	80-120
Lead	472	500	94.4	80-120
Magnesium	24400	25000	97.6	80-120
Manganese	516	500	103.2	80-120
Molybdenum				
Nickel	526	500	105.2	80-120
Potassium	25800	25000	103.2	80-120
Selenium	2030	2000	101.5	80-120
Silver	48.2	50	96.4	80-120
Sodium	26100	25000	104.4	80-120
Strontium				
Thallium	1950	2000	97.5	80-120
Tin				
Titanium				
Vanadium	489	500	97.8	80-120
Zinc	502	500	100.4	80-120

Associated samples MP23770: F97042-1F, F97042-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	F96984-9 Original	SDL 1:5	%DIF	QC Limits
Aluminum	1240	1220	1.9	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	9.80	9.70	1.0	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	24500	24500	0.0	0-10
Chromium	2.10	0.00	100.0(a)	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	601	577	4.0	0-10
Lead	0.00	0.00	NC	0-10
Magnesium	941	943	0.2	0-10
Manganese	10.6	10.0	5.7	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	2470	2280	7.9	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1780	0.00	100.0(a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	1.80	0.00	100.0(a)	0-10
Zinc	0.00	0.00	NC	0-10

Associated samples MP23770: F97042-1F, F97042-2F

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: F97042
Account: NATVALB - Nation View
Project: Holloman AFB; SS18

QC Batch ID: MP23770
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/27/12

Metal	Sample ml	Final ml	F96984-9 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum	9.8	10	1244	1219.12	3822	0.2	125	2500	104.1	80-120
Antimony	9.8	10	0	0	103.5	0.2	5	100	103.5	80-120
Arsenic	9.8	10	0	0	102.1	0.2	5	100	102.1	80-120
Barium	9.8	10	9.8	9.604	267.7	0.2	12.5	250	103.2	80-120
Beryllium	9.8	10	0	0	52.7	0.2	2.5	50	105.4	80-120
Cadmium	9.8	10	0	0	52.9	0.2	2.5	50	105.8	80-120
Calcium	9.8	10	24470	23980.6	29700	0.2	250	5000	114.4	80-120
Chromium	9.8	10	2.1	2.058	54.4	0.2	2.5	50	104.7	80-120
Cobalt	9.8	10	0	0	53.3	0.2	2.5	50	106.6	80-120
Copper	9.8	10	0	0	105.5	0.2	5	100	105.5	80-120
Iron	9.8	10	600.5	588.49	3631	0.2	150	3000	101.4	80-120
Lead	9.8	10	0	0	47.8	0.2	2.5	50	95.6	80-120
Magnesium	9.8	10	941.3	922.474	5636	0.2	250	5000	94.3	80-120
Manganese	9.8	10	10.6	10.388	63.3	0.2	2.5	50	105.8	80-120
Molybdenum										
Nickel	9.8	10	0	0	105.8	0.2	5	100	105.8	80-120
Potassium	9.8	10	2473	2423.54	12660	0.2	500	10000	102.4	80-120
Selenium	9.8	10	0	0	103.2	0.2	5	100	103.2	80-120
Silver	9.8	10	0	0	47.7	0.2	2.5	50	95.4	80-120
Sodium	9.8	10	1777	1741.46	12150	0.2	500	10000	104.1	80-120
Strontium										
Thallium	9.8	10	0	0	93.6	0.2	5	100	93.6	80-120
Tin										
Titanium										
Vanadium	9.8	10	1.8	1.764	51.4	0.2	2.5	50	99.3	80-120
Zinc	9.8	10	0	0	290.4	0.2	12.5	250	116.2	80-120

Associated samples MP23770: F97042-1F, F97042-2F

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

Southeast ACCUTEST LABORATORIES

10/15/12

Technical Report for

Nation View

Holloman AFB; SS18

11-0020.01.030

Accutest Job Number: F97531

Sampling Date: 10/01/12

Report to:

NationView
445 Union Blvd., Ste. 129
Lakewood, CO 80228
molive@bhate.com

ATTN: Marcia Olive

Total number of pages in report: **31**

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: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Accutest Laboratories

Sample Summary

Nation View

Job No: F97531

Holloman AFB; SS18
Project No: 11-0020.01.030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97531-1	10/01/12	08:10	BP	10/02/12	AQ	Ground Water	SS18-MW20

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Nation View **Job No:** F97531

Site: Holloman AFB; SS18 **Report Date** 10/15/2012 11:44:33

1 Sample was collected on 10/01/2012 and was received at Accutest on 10/02/2012 properly preserved, at 3 Deg. C and intact. This Sample received an Accutest job number of F97531. 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.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43818

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) F97531-1MS, F97531-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzidine, Benzoic Acid are outside control limits. SB recovery is biased high. Analyte is non-detect in associated sample; therefore data integrity is not compromised.

Sample(s) OP43818-MS, OP43818-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP43818-MS for Phenol-d5: Outside control limits.

OP43818-MSD for Phenol-d5: Outside control limits.

F97531-1 for Benzidine: Associated BS recovery outside control limits.

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 15, 2012

Lovelie Metzgar, QA Assistant (signature on file)

Summary of Hits

Job Number: F97531
Account: Nation View
Project: Holloman AFB; SS18
Collected: 10/01/12

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97531-1	**SS18-MW20**					

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SS18-MW20		
Lab Sample ID:	F97531-1	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004409.D	1	10/04/12	FS	10/03/12	OP43818	ST224
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	49	9.7	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.69	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.78	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.68	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.74	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.7	1.4	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.70	ug/l	
	3&4-Methylphenol	ND	4.9	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.66	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.9	ug/l	
108-95-2	Phenol	ND	4.9	0.53	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.87	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.76	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.68	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.67	ug/l	
62-53-3	Aniline	ND	4.9	0.76	ug/l	
120-12-7	Anthracene	ND	4.9	0.73	ug/l	
92-87-5	Benzidine [a]	ND	24	4.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.53	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.55	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.73	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.64	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.9	0.77	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.9	0.69	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.97	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.71	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.67	ug/l	
86-74-8	Carbazole	ND	4.9	0.51	ug/l	
218-01-9	Chrysene	ND	4.9	0.57	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:	SS18-MW20		
Lab Sample ID:	F97531-1	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.67	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.70	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.9	0.77	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.9	0.85	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.66	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.9	0.62	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.75	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.67	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.67	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.78	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.57	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.72	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	0.97	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	0.97	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	0.97	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	0.78	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	1.1	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.57	ug/l	
86-73-7	Fluorene	ND	4.9	0.74	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.67	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.93	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	0.77	ug/l	
67-72-1	Hexachloroethane	ND	4.9	0.72	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.56	ug/l	
78-59-1	Isophorone	ND	4.9	0.62	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.68	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.67	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.73	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.63	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.94	ug/l	
91-20-3	Naphthalene	ND	4.9	0.62	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.70	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.9	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.9	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.68	ug/l	
129-00-0	Pyrene	ND	4.9	0.66	ug/l	
110-86-1	Pyridine	ND	9.7	1.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.59	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:	SS18-MW20		
Lab Sample ID:	F97531-1	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Holloman AFB; SS18		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	37%		10-40%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

(a) Associated BS recovery outside 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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NM)
- Chain of Custody

NATIONVIEW

F97531

Page: 1 of 1

NV Project No: 11-0020.01.030

COC Number(1): 10012012-1

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman Air Force Base, New Mexico

Project/Site Name: SS-18 Supplemental ACM (Groundwater)

Client Name: USACE Omaha District

Collected by: Zack Beck / Brian Parrish / Tony Lucero

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	V8260STD	V8015GRO	AB8270STD	B8015DRO/ORO	P8082PCB	TAL Metals [Dissolved] (6010/7470)	TAL Metals [Total] (6010/7470)	TDS (SM19 2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number
								Sample Analysis Requested (5)									Quality Assurance Samples (6)		
SS18-MW20	SS18-MW20	01-10-2012	0810	-	N		WG	2			X								
				-															
				-															
				-															
				-															
				-															
				-															
				-															
				-															

COMMENTS: **Dissolved TAL Metals filtered in the field**

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Brian Parrish	10/01/12	0930	1. FX		
2. FX	10/2/12	10:00	2. ~~Gat~~ HLL ASE	10/2/12	10:00
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Fed Ex

Airbill Number: 799086067813

Analytical Lab: Accutest Labs

Delivery Location: Orlando, FL

Lab Recipient:

Delivery Date/Time:

3.0c

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.1

5

F97531: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97531 CLIENT: NATIONVIEW PROJECT: SS-18 SUPP. ACM (GW)

DATE/TIME RECEIVED: 10/02/12 10:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7990 8606 7813

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
- [X] TRIP BLANK NOT PROVIDED
- [X] 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 #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.0
- [ ] 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:

TECHNICIAN SIGNATURE/DATE 10/2/12 REVIEWER SIGNATURE/DATE 10-02-12

NF 12/10 receipt confirmation 122910.xls

5.1 5

F97531: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	X025788.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.71	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.81	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.70	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.77	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.4	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	1.4	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.68	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.90	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.78	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.70	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.69	ug/l	
62-53-3	Aniline	ND	5.0	0.78	ug/l	
120-12-7	Anthracene	ND	5.0	0.75	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.55	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.57	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.66	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.79	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.71	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.73	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.69	ug/l	
86-74-8	Carbazole	ND	5.0	0.52	ug/l	
218-01-9	Chrysene	ND	5.0	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.70	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.72	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.79	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.87	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	X025788.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.68	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.78	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.81	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.74	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.75	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.81	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.2	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.59	ug/l	
86-73-7	Fluorene	ND	5.0	0.76	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.69	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	0.79	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.74	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.57	ug/l	
78-59-1	Isophorone	ND	5.0	0.64	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.70	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.69	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.75	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.65	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.97	ug/l	
91-20-3	Naphthalene	ND	5.0	0.64	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.72	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	0.63	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.71	ug/l	
129-00-0	Pyrene	ND	5.0	0.68	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.61	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	X025788.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	81%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	74%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	T004406.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	1700	330	ug/l	
95-57-8	2-Chlorophenol	ND	170	24	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	170	27	ug/l	
120-83-2	2,4-Dichlorophenol	ND	170	23	ug/l	
105-67-9	2,4-Dimethylphenol	ND	170	26	ug/l	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	330	48	ug/l	
95-48-7	2-Methylphenol	ND	170	24	ug/l	
	3&4-Methylphenol	ND	170	46	ug/l	
88-75-5	2-Nitrophenol	ND	170	23	ug/l	
100-02-7	4-Nitrophenol	ND	830	170	ug/l	
87-86-5	Pentachlorophenol	ND	830	170	ug/l	
108-95-2	Phenol	ND	170	18	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	170	30	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	170	26	ug/l	
83-32-9	Acenaphthene	ND	170	23	ug/l	
208-96-8	Acenaphthylene	ND	170	23	ug/l	
62-53-3	Aniline	ND	170	26	ug/l	
120-12-7	Anthracene	ND	170	25	ug/l	
92-87-5	Benzidine	ND	830	170	ug/l	
56-55-3	Benzo(a)anthracene	ND	170	18	ug/l	
50-32-8	Benzo(a)pyrene	ND	170	19	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	170	25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	170	22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	170	22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	170	26	ug/l	
85-68-7	Butyl benzyl phthalate	ND	170	24	ug/l	
100-51-6	Benzyl Alcohol	ND	170	33	ug/l	
91-58-7	2-Chloronaphthalene	ND	170	24	ug/l	
106-47-8	4-Chloroaniline	ND	170	23	ug/l	
86-74-8	Carbazole	ND	170	17	ug/l	
218-01-9	Chrysene	ND	170	19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	170	24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	26	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	29	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	T004406.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	170	23	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	170	21	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	170	26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	170	23	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	170	23	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	170	27	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	170	24	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	170	19	ug/l	
132-64-9	Dibenzofuran	ND	170	25	ug/l	
84-74-2	Di-n-butyl phthalate	ND	170	33	ug/l	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/l	
84-66-2	Diethyl phthalate	ND	170	33	ug/l	
131-11-3	Dimethyl phthalate	ND	170	27	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	38	ug/l	
206-44-0	Fluoranthene	ND	170	20	ug/l	
86-73-7	Fluorene	ND	170	25	ug/l	
118-74-1	Hexachlorobenzene	ND	170	23	ug/l	
87-68-3	Hexachlorobutadiene	ND	170	32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	170	26	ug/l	
67-72-1	Hexachloroethane	ND	170	25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	19	ug/l	
78-59-1	Isophorone	ND	170	21	ug/l	
90-12-0	1-Methylnaphthalene	ND	170	23	ug/l	
91-57-6	2-Methylnaphthalene	ND	170	23	ug/l	
88-74-4	2-Nitroaniline	ND	170	25	ug/l	
99-09-2	3-Nitroaniline	ND	170	22	ug/l	
100-01-6	4-Nitroaniline	ND	170	32	ug/l	
91-20-3	Naphthalene	ND	170	21	ug/l	
98-95-3	Nitrobenzene	ND	170	24	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	170	21	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/l	
85-01-8	Phenanthrene	ND	170	23	ug/l	
129-00-0	Pyrene	ND	170	23	ug/l	
110-86-1	Pyridine	ND	330	67	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	170	20	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	T004406.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	L059768.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.71	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.81	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.70	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.77	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.4	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	1.4	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.68	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.55	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.90	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.78	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.70	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.69	ug/l	
62-53-3	Aniline	ND	5.0	0.78	ug/l	
120-12-7	Anthracene	ND	5.0	0.75	ug/l	
92-87-5	Benzidine	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.55	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.57	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.66	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.79	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.71	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.73	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.69	ug/l	
86-74-8	Carbazole	ND	5.0	0.52	ug/l	
218-01-9	Chrysene	ND	5.0	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.70	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.72	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.79	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.87	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	L059768.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.68	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.64	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.78	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.69	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.81	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.74	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.75	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.81	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.2	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.59	ug/l	
86-73-7	Fluorene	ND	5.0	0.76	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.69	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.96	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	0.79	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.74	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.57	ug/l	
78-59-1	Isophorone	ND	5.0	0.64	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.70	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.69	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.75	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.65	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.97	ug/l	
91-20-3	Naphthalene	ND	5.0	0.64	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.72	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	5.0	0.63	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.85	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.71	ug/l	
129-00-0	Pyrene	ND	5.0	0.68	ug/l	
110-86-1	Pyridine	ND	10	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.61	ug/l	

Method Blank Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MB	L059768.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	14-62%
4165-62-2	Phenol-d5	26%	10-40%
118-79-6	2,4,6-Tribromophenol	71%	33-118%
4165-60-0	Nitrobenzene-d5	63%	42-108%
321-60-8	2-Fluorobiphenyl	65%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	X025787.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	24.3	24	10-50
95-57-8	2-Chlorophenol	50	43.0	86	44-103
59-50-7	4-Chloro-3-methyl phenol	50	44.0	88	53-105
120-83-2	2,4-Dichlorophenol	50	44.1	88	53-108
105-67-9	2,4-Dimethylphenol	50	36.6	73	37-91
51-28-5	2,4-Dinitrophenol	100	94.6	95	37-111
534-52-1	4,6-Dinitro-o-cresol	100	106	106	62-115
95-48-7	2-Methylphenol	50	36.6	73	35-91
	3&4-Methylphenol	100	68.1	68	32-85
88-75-5	2-Nitrophenol	50	42.2	84	49-111
100-02-7	4-Nitrophenol	100	37.8	38	13-55
87-86-5	Pentachlorophenol	100	99.2	99	57-118
108-95-2	Phenol	50	18.4	37	13-54
95-95-4	2,4,5-Trichlorophenol	50	48.0	96	59-106
88-06-2	2,4,6-Trichlorophenol	50	45.4	91	58-107
83-32-9	Acenaphthene	50	47.7	95	58-106
208-96-8	Acenaphthylene	50	45.3	91	58-105
62-53-3	Aniline	50	40.4	81	43-98
120-12-7	Anthracene	50	49.1	98	65-108
92-87-5	Benzidine	50	37.5	75*	15-73
56-55-3	Benzo(a)anthracene	50	49.8	100	63-111
50-32-8	Benzo(a)pyrene	50	47.3	95	62-106
205-99-2	Benzo(b)fluoranthene	50	48.2	96	63-109
191-24-2	Benzo(g,h,i)perylene	50	50.8	102	61-111
207-08-9	Benzo(k)fluoranthene	50	55.5	111	64-111
101-55-3	4-Bromophenyl phenyl ether	50	47.8	96	64-107
85-68-7	Butyl benzyl phthalate	50	49.0	98	59-114
100-51-6	Benzyl Alcohol	50	39.0	78	34-98
91-58-7	2-Chloronaphthalene	50	45.0	90	54-105
106-47-8	4-Chloroaniline	50	44.6	89	53-103
86-74-8	Carbazole	50	49.3	99	66-109
218-01-9	Chrysene	50	50.7	101	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	43.6	87	48-101
111-44-4	bis(2-Chloroethyl)ether	50	44.4	89	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	42.6	85	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	46.5	93	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	X025787.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	42.4	85	41-102
122-66-7	1,2-Diphenylhydrazine	50	46.9	94	61-110
541-73-1	1,3-Dichlorobenzene	50	41.0	82	38-100
106-46-7	1,4-Dichlorobenzene	50	41.5	83	40-100
121-14-2	2,4-Dinitrotoluene	50	48.3	97	60-109
606-20-2	2,6-Dinitrotoluene	50	48.8	98	58-104
91-94-1	3,3'-Dichlorobenzidine	50	48.5	97	57-105
53-70-3	Dibenzo(a,h)anthracene	50	49.2	98	62-112
132-64-9	Dibenzofuran	50	46.7	93	61-108
84-74-2	Di-n-butyl phthalate	50	47.8	96	62-109
117-84-0	Di-n-octyl phthalate	50	47.3	95	60-120
84-66-2	Diethyl phthalate	50	48.3	97	62-109
131-11-3	Dimethyl phthalate	50	47.6	95	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.5	97	59-116
206-44-0	Fluoranthene	50	48.6	97	65-114
86-73-7	Fluorene	50	47.7	95	61-106
118-74-1	Hexachlorobenzene	50	48.0	96	62-107
87-68-3	Hexachlorobutadiene	50	42.3	85	38-107
77-47-4	Hexachlorocyclopentadiene	50	39.9	80	19-84
67-72-1	Hexachloroethane	50	42.0	84	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	49.7	99	61-113
78-59-1	Isophorone	50	37.1	74	56-111
90-12-0	1-Methylnaphthalene	50	44.2	88	52-102
91-57-6	2-Methylnaphthalene	50	41.1	82	56-112
88-74-4	2-Nitroaniline	50	49.4	99	60-109
99-09-2	3-Nitroaniline	50	45.0	90	52-107
100-01-6	4-Nitroaniline	50	50.0	100	59-111
91-20-3	Naphthalene	50	43.3	87	50-104
98-95-3	Nitrobenzene	50	43.8	88	52-105
62-75-9	N-Nitrosodimethylamine	50	27.1	54	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	44.9	90	51-104
86-30-6	N-Nitrosodiphenylamine	50	48.8	98	57-110
85-01-8	Phenanthrene	50	49.3	99	65-108
129-00-0	Pyrene	50	50.2	100	60-113
110-86-1	Pyridine	50	28.8	58	15-67
120-82-1	1,2,4-Trichlorobenzene	50	42.0	84	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	X025787.D	1	10/03/12	FS	10/03/12	OP43818	SX1246

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	14-62%
4165-62-2	Phenol-d5	32%	10-40%
118-79-6	2,4,6-Tribromophenol	92%	33-118%
4165-60-0	Nitrobenzene-d5	84%	42-108%
321-60-8	2-Fluorobiphenyl	86%	40-106%
1718-51-0	Terphenyl-d14	99%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	L059769.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	85.4	85*	10-50
95-57-8	2-Chlorophenol	50	39.4	79	44-103
59-50-7	4-Chloro-3-methyl phenol	50	41.8	84	53-105
120-83-2	2,4-Dichlorophenol	50	40.9	82	53-108
105-67-9	2,4-Dimethylphenol	50	33.2	66	37-91
51-28-5	2,4-Dinitrophenol	100	80.9	81	37-111
534-52-1	4,6-Dinitro-o-cresol	100	108	108	62-115
95-48-7	2-Methylphenol	50	33.2	66	35-91
	3&4-Methylphenol	100	54.5	55	32-85
88-75-5	2-Nitrophenol	50	40.0	80	49-111
100-02-7	4-Nitrophenol	100	38.7	39	13-55
87-86-5	Pentachlorophenol	100	102	102	57-118
108-95-2	Phenol	50	18.6	37	13-54
95-95-4	2,4,5-Trichlorophenol	50	43.4	87	59-106
88-06-2	2,4,6-Trichlorophenol	50	43.6	87	58-107
83-32-9	Acenaphthene	50	43.3	87	58-106
208-96-8	Acenaphthylene	50	42.0	84	58-105
62-53-3	Aniline	50	42.2	84	43-98
120-12-7	Anthracene	50	44.5	89	65-108
92-87-5	Benzidine	50	34.4	69	15-73
56-55-3	Benzo(a)anthracene	50	48.8	98	63-111
50-32-8	Benzo(a)pyrene	50	48.1	96	62-106
205-99-2	Benzo(b)fluoranthene	50	47.7	95	63-109
191-24-2	Benzo(g,h,i)perylene	50	50.4	101	61-111
207-08-9	Benzo(k)fluoranthene	50	50.7	101	64-111
101-55-3	4-Bromophenyl phenyl ether	50	45.6	91	64-107
85-68-7	Butyl benzyl phthalate	50	48.0	96	59-114
100-51-6	Benzyl Alcohol	50	37.1	74	34-98
91-58-7	2-Chloronaphthalene	50	40.3	81	54-105
106-47-8	4-Chloroaniline	50	40.4	81	53-103
86-74-8	Carbazole	50	45.4	91	66-109
218-01-9	Chrysene	50	48.9	98	64-111
111-91-1	bis(2-Chloroethoxy)methane	50	39.5	79	48-101
111-44-4	bis(2-Chloroethyl)ether	50	41.0	82	51-108
108-60-1	bis(2-Chloroisopropyl)ether	50	37.3	75	43-106
7005-72-3	4-Chlorophenyl phenyl ether	50	43.1	86	61-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	L059769.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	38.5	77	41-102
122-66-7	1,2-Diphenylhydrazine	50	42.8	86	61-110
541-73-1	1,3-Dichlorobenzene	50	37.6	75	38-100
106-46-7	1,4-Dichlorobenzene	50	38.4	77	40-100
121-14-2	2,4-Dinitrotoluene	50	46.5	93	60-109
606-20-2	2,6-Dinitrotoluene	50	46.9	94	58-104
91-94-1	3,3'-Dichlorobenzidine	50	43.3	87	57-105
53-70-3	Dibenzo(a,h)anthracene	50	51.8	104	62-112
132-64-9	Dibenzofuran	50	42.7	85	61-108
84-74-2	Di-n-butyl phthalate	50	45.3	91	62-109
117-84-0	Di-n-octyl phthalate	50	52.3	105	60-120
84-66-2	Diethyl phthalate	50	43.6	87	62-109
131-11-3	Dimethyl phthalate	50	43.7	87	63-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.7	97	59-116
206-44-0	Fluoranthene	50	45.3	91	65-114
86-73-7	Fluorene	50	44.3	89	61-106
118-74-1	Hexachlorobenzene	50	44.3	89	62-107
87-68-3	Hexachlorobutadiene	50	39.3	79	38-107
77-47-4	Hexachlorocyclopentadiene	50	37.1	74	19-84
67-72-1	Hexachloroethane	50	39.1	78	35-101
193-39-5	Indeno(1,2,3-cd)pyrene	50	51.2	102	61-113
78-59-1	Isophorone	50	33.9	68	56-111
90-12-0	1-Methylnaphthalene	50	41.6	83	52-102
91-57-6	2-Methylnaphthalene	50	40.6	81	56-112
88-74-4	2-Nitroaniline	50	44.8	90	60-109
99-09-2	3-Nitroaniline	50	42.6	85	52-107
100-01-6	4-Nitroaniline	50	47.1	94	59-111
91-20-3	Naphthalene	50	37.7	75	50-104
98-95-3	Nitrobenzene	50	39.4	79	52-105
62-75-9	N-Nitrosodimethylamine	50	26.7	53	20-71
621-64-7	N-Nitroso-di-n-propylamine	50	40.1	80	51-104
86-30-6	N-Nitrosodiphenylamine	50	45.3	91	57-110
85-01-8	Phenanthrene	50	45.3	91	65-108
129-00-0	Pyrene	50	47.1	94	60-113
110-86-1	Pyridine	50	27.0	54	15-67
120-82-1	1,2,4-Trichlorobenzene	50	39.2	78	45-104

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-BS	L059769.D	1	10/04/12	NAF	10/03/12	OP43818	SL3041

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	14-62%
4165-62-2	Phenol-d5	32%	10-40%
118-79-6	2,4,6-Tribromophenol	86%	33-118%
4165-60-0	Nitrobenzene-d5	76%	42-108%
321-60-8	2-Fluorobiphenyl	78%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MS	T004410.D	1	10/04/12	FS	10/03/12	OP43818	ST224
OP43818-MSD	T004411.D	1	10/04/12	FS	10/03/12	OP43818	ST224
F97531-1	T004409.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	F97531-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	91.0	47	84.6	44	7	10-50/40
95-57-8	2-Chlorophenol	ND		96.2	71.7	75	64.5	67	11	44-103/29
59-50-7	4-Chloro-3-methyl phenol	ND		96.2	78.8	82	73.0	76	8	53-105/24
120-83-2	2,4-Dichlorophenol	ND		96.2	77.0	80	70.1	73	9	53-108/26
105-67-9	2,4-Dimethylphenol	ND		96.2	65.6	68	58.2	61	12	37-91/28
51-28-5	2,4-Dinitrophenol	ND		192	165	86	161	84	2	37-111/30
534-52-1	4,6-Dinitro-o-cresol	ND		192	190	99	181	94	5	62-115/26
95-48-7	2-Methylphenol	ND		96.2	73.8	77	65.2	68	12	35-91/30
	3&4-Methylphenol	ND		192	138	72	123	64	11	32-85/29
88-75-5	2-Nitrophenol	ND		96.2	72.6	76	66.4	69	9	49-111/30
100-02-7	4-Nitrophenol	ND		192	102	53	94.3	49	8	13-55/31
87-86-5	Pentachlorophenol	ND		192	185	96	176	92	5	57-118/26
108-95-2	Phenol	ND		96.2	51.9	54	45.0	47	14	13-54/34
95-95-4	2,4,5-Trichlorophenol	ND		96.2	83.9	87	78.7	82	6	59-106/23
88-06-2	2,4,6-Trichlorophenol	ND		96.2	82.5	86	74.3	77	10	58-107/24
83-32-9	Acenaphthene	ND		96.2	84.1	87	76.7	80	9	58-106/21
208-96-8	Acenaphthylene	ND		96.2	79.7	83	73.5	76	8	58-105/21
62-53-3	Aniline	ND		96.2	73.2	76	66.4	69	10	43-98/28
120-12-7	Anthracene	ND		96.2	87.0	90	82.7	86	5	65-108/19
92-87-5	Benzidine	ND		96.2	33.4	35	27.8	29	18	15-73/23
56-55-3	Benzo(a)anthracene	ND		96.2	88.0	92	83.7	87	5	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	84.1	87	79.7	83	5	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	92.8	97	82.7	86	12	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	89.7	93	84.3	88	6	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	88.2	92	87.1	91	1	64-111/20
101-55-3	4-Bromophenyl phenyl ether	ND		96.2	89.2	93	82.4	86	8	64-107/20
85-68-7	Butyl benzyl phthalate	ND		96.2	85.1	89	78.9	82	8	59-114/20
100-51-6	Benzyl Alcohol	ND		96.2	73.3	76	65.8	68	11	34-98/27
91-58-7	2-Chloronaphthalene	ND		96.2	79.6	83	72.4	75	9	54-105/24
106-47-8	4-Chloroaniline	ND		96.2	71.6	74	67.0	70	7	53-103/22
86-74-8	Carbazole	ND		96.2	86.5	90	82.7	86	4	66-109/20
218-01-9	Chrysene	ND		96.2	89.3	93	82.5	86	8	64-111/19
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	75.8	79	67.6	70	11	48-101/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	70.5	73	63.7	66	10	51-108/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		96.2	61.9	64	55.4	58	11	43-106/27
7005-72-3	4-Chlorophenyl phenyl ether	ND		96.2	83.2	87	78.5	82	6	61-107/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MS	T004410.D	1	10/04/12	FS	10/03/12	OP43818	ST224
OP43818-MSD	T004411.D	1	10/04/12	FS	10/03/12	OP43818	ST224
F97531-1	T004409.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Compound	F97531-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		96.2	72.0	75	65.1	68	10	41-102/28
122-66-7	1,2-Diphenylhydrazine	ND		96.2	77.7	81	71.3	74	9	61-110/20
541-73-1	1,3-Dichlorobenzene	ND		96.2	70.6	73	63.7	66	10	38-100/28
106-46-7	1,4-Dichlorobenzene	ND		96.2	71.6	74	65.6	68	9	40-100/28
121-14-2	2,4-Dinitrotoluene	ND		96.2	82.2	85	80.9	84	2	60-109/20
606-20-2	2,6-Dinitrotoluene	ND		96.2	81.4	85	76.4	79	6	58-104/21
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	72.8	76	68.0	71	7	57-105/25
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	93.0	97	86.3	90	7	62-112/20
132-64-9	Dibenzofuran	ND		96.2	82.1	85	76.1	79	8	61-108/20
84-74-2	Di-n-butyl phthalate	ND		96.2	84.4	88	80.1	83	5	62-109/20
117-84-0	Di-n-octyl phthalate	ND		96.2	88.3	92	83.0	86	6	60-120/24
84-66-2	Diethyl phthalate	ND		96.2	84.8	88	80.8	84	5	62-109/19
131-11-3	Dimethyl phthalate	ND		96.2	83.6	87	79.9	83	5	63-106/19
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	86.0	89	80.4	84	7	59-116/21
206-44-0	Fluoranthene	ND		96.2	85.7	89	80.4	84	6	65-114/21
86-73-7	Fluorene	ND		96.2	86.3	90	81.2	84	6	61-106/19
118-74-1	Hexachlorobenzene	ND		96.2	90.2	94	84.3	88	7	62-107/20
87-68-3	Hexachlorobutadiene	ND		96.2	77.4	80	69.4	72	11	38-107/30
77-47-4	Hexachlorocyclopentadiene	ND		96.2	76.8	80	66.7	69	14	19-84/35
67-72-1	Hexachloroethane	ND		96.2	70.5	73	64.2	67	9	35-101/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	92.1	96	86.5	90	6	61-113/20
78-59-1	Isophorone	ND		96.2	64.7	67	57.5	60	12	56-111/26
90-12-0	1-Methylnaphthalene	ND		96.2	78.6	82	70.0	73	12	52-102/25
91-57-6	2-Methylnaphthalene	ND		96.2	76.4	79	69.2	72	10	56-112/26
88-74-4	2-Nitroaniline	ND		96.2	75.1	78	71.4	74	5	60-109/20
99-09-2	3-Nitroaniline	ND		96.2	72.3	75	69.8	73	4	52-107/21
100-01-6	4-Nitroaniline	ND		96.2	82.1	85	78.5	82	4	59-111/21
91-20-3	Naphthalene	ND		96.2	75.1	78	66.3	69	12	50-104/28
98-95-3	Nitrobenzene	ND		96.2	72.5	75	64.5	67	12	52-105/28
62-75-9	N-Nitrosodimethylamine	ND		96.2	55.1	57	49.1	51	12	20-71/32
621-64-7	N-Nitroso-di-n-propylamine	ND		96.2	69.2	72	63.7	66	8	51-104/28
86-30-6	N-Nitrosodiphenylamine	ND		96.2	87.3	91	81.9	85	6	57-110/19
85-01-8	Phenanthrene	ND		96.2	89.8	93	85.2	89	5	65-108/20
129-00-0	Pyrene	ND		96.2	89.6	93	82.6	86	8	60-113/20
110-86-1	Pyridine	ND		96.2	54.9	57	49.0	51	11	15-67/40
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	76.2	79	67.9	71	12	45-104/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97531
Account: NATVALB Nation View
Project: Holloman AFB; SS18

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43818-MS	T004410.D	1	10/04/12	FS	10/03/12	OP43818	ST224
OP43818-MSD	T004411.D	1	10/04/12	FS	10/03/12	OP43818	ST224
F97531-1	T004409.D	1	10/04/12	FS	10/03/12	OP43818	ST224

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97531-1

CAS No.	Surrogate Recoveries	MS	MSD	F97531-1	Limits
367-12-4	2-Fluorophenol	61%	52%	47%	14-62%
4165-62-2	Phenol-d5	50%* [a]	42%* [a]	37%	10-40%
118-79-6	2,4,6-Tribromophenol	94%	89%	95%	33-118%
4165-60-0	Nitrobenzene-d5	73%	65%	76%	42-108%
321-60-8	2-Fluorobiphenyl	78%	71%	79%	40-106%
1718-51-0	Terphenyl-d14	90%	85%	86%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

APPENDIX G

SUPPLEMENTAL ACM DATA VALIDATION REPORTS

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 14, 2012. Soil sampling and analyses were performed on three soil samples and an associated trip blank from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-DP24-10	Soil	8/14/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP40-8			
SS18-DP39-8			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blank or method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries and surrogate recoveries were within control limits for all compounds in all analyses.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and/or MSD recoveries for methyl methacrylate; 1,1,2-trichloroethane; and multiple semi-volatile compounds were outside control limits. Precision and accuracy

were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of aluminum, antimony, cadmium, calcium, iron, and sodium were outside control limits. The control limits for calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium) were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

A dilution was required of all metals with the exception of mercury. Elevated reporting limits were reported.

Overall Assessment of Data

The relative percent difference (RPD) for the laboratory duplicate of antimony, arsenic, copper, lead, selenium, and thallium were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of antimony, arsenic, beryllium, cobalt, copper, lead, nickel, selenium, thallium, vanadium, mercury, and zinc were outside control limits. None of these compounds had concentration exceeding 50 times the method detection limit (MDL) and required no qualification.

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Many metals were recovered outside control limits. The native concentration of numerous target analytes in the sample was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the noncompliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP24-10	Aluminum Antimony Iron	3,240 J 1.4 J 3,590 J
SS18-DP40-8	Aluminum Iron	2,790 J 2,510 J
SS18-DP39-8	Aluminum Iron	2,370 J 2,050 J

* Results are in milligrams per kilogram (mg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 14-15, 2012. Soil sampling and analyses were performed on nine soil samples and associated trip blanks from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Lab Package	Collection Date	Analyses (USEPA Method Number)
SS18-DP26-8	Soil	F95948	8/14/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP28-7				
SS18-DP29-8			8/15/12	
SS18-DP30-11				
SS18-DP33-8				
SS18-DP31-11		F95949		
SS18-DP31-11-A				
SS18-DP33-8-A				
SS18-DP37-8				

Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the exception of the volatile soil vials for samples SS18-DP26-8 and SS18-DP28-7. Since they were not preserved within 48 hours of sampling the results were considered minimum values. The positively identified compounds were qualified as estimated, "J".

Blanks

No compounds were detected in the trip blank or method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recovery for TPH-DRO was above control limits associated with all samples. This compound was only detected in sample SS18-DP26-8 and was flagged as estimated, "J".

The extractable TPH surrogate, o-terphenyl, was recovered above QC limits for two method blank analyses. The TPH-DRO and -ORO compounds were not detected; therefore, no qualification was required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and/or MSD recoveries and/or relative percent difference (RPD) for benzyl chloride, ethyl methacrylate, and benzoic acid were outside control limits associated with lab package F95949. The MS/MSD recoveries and/or RPD for multiple volatile compounds were outside control limits associated with lab package F95948 which used a QC sample from another batch/lot. Further, the MSD recoveries and/or RPD for benzoic acid and 3-nitroaniline were outside control limits associated with package F95948. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS/MSD recoveries for TPH-DRO were above QC limits. The associated LCS recovery was also above QC limits but due to the fact that this compound had no positive detections with the exception of SS18-DP26-8; only that sample required qualification.

The MS and/or MSD recoveries and/or RPD of aluminum, antimony, cadmium, calcium, chromium, iron, magnesium, manganese, potassium, thallium, mercury, and sodium were outside control limits. The control limits for calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium) were qualified as estimated, “J”.

Project Specific Quality Assurance/Quality Control

Two field duplicate samples were submitted as part of this sampling event. The RPD between sample SS18-DP31-11 and its duplicate was outside project defined control limits for aluminum, arsenic, barium, calcium, iron, manganese, nickel, and potassium. These compounds were qualified as estimated, “J”. The RPD for all compounds were in control for sample SS18-DP33-8 and it’s duplicate.

Compound Quantitation and Reporting Limits

Where a dilution was required, elevated reporting limits were reported.

Overall Assessment of Data

The RPD for the laboratory duplicate of aluminum, antimony, beryllium, calcium, chromium, copper, magnesium, manganese, sodium, zinc, mercury, and thallium were outside control limits. Due to low duplicate and/or sample concentrations, the RPDs were deemed acceptable for antimony, beryllium, chromium, copper, sodium, thallium, mercury, and zinc. Aluminum, calcium, magnesium, and manganese were affected by possible sample non-homogeneity and were qualified as estimated, “J”.

The serial dilution percent difference of antimony, arsenic, beryllium, chromium, cobalt, lead, and mercury were outside control limits. None of these compounds had concentrations exceeding 50 times the method detection limit (MDL) and required no qualification.

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. The native concentration of numerous target analytes in the sample was

high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the non-compliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP26-8	TPH-DRO	11.5 J
	Aluminum	3,200 J
	Calcium	217,000 J
	Magnesium	3,990 J
	Manganese	84.9 J
	Chromium	5.8 J
	Iron	3,060 J
	Potassium	772 J
SS18-DP28-7	1,1-Dichloroethane	6.3 J
	1,1-Dichloroethylene	25.8 J
	Tetrachloroethylene	21.7 J
	Trichloroethylene	4.2 J
	Aluminum	5,810 J
	Calcium	193,000 J
	Magnesium	4,820 J
	Manganese	73.5 J
	Antimony	1.2 J
	Chromium	6.1 J
	Iron	4,910 J
	Potassium	1,320 J
	Sodium	2,030 J
SS18-DP29-8	Aluminum	3,980 J
	Calcium	189,000 J
	Magnesium	3,610 J
	Manganese	54.2 J
	Chromium	3.1 J
	Iron	2,850 J
	Potassium	883 J
SS18-DP30-11	Aluminum	5,130 J
	Calcium	148,000 J
	Magnesium	6,730 J
	Manganese	39.4 J
	Chromium	4.5 J
	Iron	4,510 J
	Potassium	1,100 J
	Sodium	883 J
SS18-DP33-8	Aluminum	3,760 J
	Calcium	175,000 J
	Magnesium	4,400 J
	Manganese	46.9 J
	Chromium	3.0 J
	Iron	2,840 J
	Potassium	808 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP31-11	Aluminum	6,300 J
	Arsenic	4.4 J
	Barium	62 J
	Calcium	139,000 J
	Chromium	4.7 J
	Iron	5,480 J
	Manganese	378 J
	Magnesium	3,840 J
	Nickel	8.3 J
	Potassium	1,450 J
	Sodium	1,330 J
SS18-DP31-11-A	Aluminum	503 J
	Arsenic	2.1 J
	Barium	13.1 J
	Calcium	233,000 J
	Iron	322 J
	Manganese	7.9 J
	Magnesium	4,590 J
	Nickel	0.80 J
	Potassium	164 J
SS18-DP33-8-A	Aluminum	3,280 J
	Calcium	198,000 J
	Chromium	2.8 J
	Iron	2,430 J
	Magnesium	3,940 J
	Manganese	34.8 J
	Potassium	673 J
SS18-DP37-8	Aluminum	5,440 J
	Calcium	162,000 J
	Chromium	4.8 J
	Iron	4,350 J
	Magnesium	4,660 J
	Manganese	69.3 J
	Potassium	1,250 J

* Metals and TPH are in milligrams per kilogram (mg/kg), Volatiles are in micrograms per kilogram (µg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 15-16, 2012. Soil sampling and analyses were performed on three soil samples and an associated trip blank from the supplemental ACM Investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-DP35-5	Soil	8/15/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP36-7			
SS18-DP44-7		8/16/12	
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The soil vials for the volatiles were not preserved within 48 hours of sampling for samples SS18-DP35-5 and SS18-DP36-7. The positive results were considered estimated and flagged as such (J).

Sample SS18-DP35-5 was re-extracted and reanalyzed beyond hold time for the extractable TPH analysis. The results were qualified as estimated, "J".

Blanks

No compounds were detected in the trip blank or method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recovery for TPH-DRO was above QC limits. The only detected concentration in sample SS18-DP35-5 was qualified as estimated, "J".

The TPH extractable surrogate was recovered above QC limits for the method blank analysis. The diesel range and oil range hydrocarbons were not detected in the method blank analysis and no qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries for multiple volatile compounds along with benzoic acid were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS/MSD recoveries for TPH-DRO were slightly above QC limits. Since the LCS recovery was also outside control limits, the detected concentration was qualified as estimated "J" in sample SS8-DP35-5.

The MS and/or MSD recoveries of aluminum, antimony, cadmium, calcium, manganese, and thallium were outside control limits. The control limits for calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium) were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The relative percent difference (RPD) for the laboratory duplicate of beryllium, lead, and sodium were outside control limits. Due to low duplicate and/or sample concentrations, the RPDs were deemed acceptable.

The serial dilution percent difference of antimony, arsenic, mercury, beryllium, calcium, chromium, cobalt, lead, sodium, and zinc were outside control limits. Only calcium had concentrations exceeding 50 times the method detection limit (MDL) and was qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Many metals were recovered outside control limits. The native concentration of numerous target analytes in the sample was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the non-compliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP35-5	cis-1,2-Dichloroethylene	2.4 J
	TPH-DRO	4.56 J
	TPH-ORO	7.91 J
	Aluminum	1,210 J
	Manganese	11.5 J
	Calcium	215,000 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP36-7	Acetone	24.8 J
	Aluminum	3,830 J
	Manganese	40.5 J
	Calcium	139,000 J
SS18-DP44-7	Aluminum	3,490 J
	Manganese	78.1 J
	Calcium	180,000 J

* VOCs are in micrograms per kilogram (µg/kg), TPH and metals are in milligrams per kilogram (mg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 16, 2012. Soil sampling and analyses were performed on five soil samples and an associated trip blank from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-DP34-8	Soil	8/16/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP42-5			
SS18-DP43-5			
SS18-DP38-8			
SS18DP38-8-A			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blank or method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries and surrogate recoveries were within control limits for all compounds in all analyses.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for 1-chlorohexane, ethyl methacrylate, hexachlorobutadiene, hexane, 1,2,3-triclorobenzene, 1,2,4-trichlorobenzene, vinyl acetate, and benzoic acid were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of aluminum, antimony, cadmium, calcium, manganese, and thallium were outside control limits. The control limits for calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium) were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event and the RPD for all compounds were within project defined control limits.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The sample used for the volatile MS/MSD analyses was not preserved within 48 hours of sampling. The results would be considered minimum values but, considering this sample was from another batch/lot, the sample data was not adversely affected and no qualification was deemed necessary.

The RPD for the laboratory duplicate of mercury, beryllium, lead, and sodium were outside control limits. Due to low duplicate and/or sample concentrations, the RPDs were deemed acceptable.

The serial dilution percent difference of antimony, arsenic, mercury, beryllium, calcium, chromium, cobalt, lead, sodium, and zinc were outside control limits. Only calcium had concentrations exceeding 50 times the method detection limit (MDL) and was qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. The native concentration of several target analytes in the sample, outside control limits, was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the noncompliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP34-8	Aluminum Manganese Calcium	3,810 J 40.7 J 193,000 J
SS18-DP42-5	Aluminum Manganese Calcium	5,020 J 60.2 J 176,000 J
SS18-DP43-5	Aluminum Manganese Calcium	1,350 J 15.9 J 248,000 J
SS18-DP38-8	Aluminum Manganese Calcium	4,610 J 65.6 J 155,000 J
SS18-DP38-8-A	Aluminum Manganese Calcium	5,000 J 71.2 J 179,000 J

* Results are in milligrams per kilogram (mg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 15, 2012. Soil sampling and analyses were performed on three soil samples and an associated trip blank from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-DP27-8	Soil	8/15/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP25-8			
SS18-DP32-12			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blank or method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries were within control limits for all compounds in all analyses.

The TPH-GRO surrogates were recovered below QC limits in the confirmatory run of sample SS18-DP25-8. The primary run yielded surrogate recoveries within control limits for the non-detected TPH-GRO compound. Using professional judgment, the data was not adversely impacted and no qualification of the data was required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for multiple volatile compounds as well as benzoic acid, isophorone, and 3-nitroaniline were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of aluminum, antimony, cadmium, calcium, iron, lead, magnesium, thallium, zinc, and sodium were outside control limits. The control limits for aluminum, iron, and calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium, aluminum, and iron) were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The RPD for the laboratory duplicate of arsenic, lead, mercury, and sodium were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of arsenic, mercury, beryllium, calcium, chromium, cobalt, copper, nickel, and potassium were outside control limits. Only calcium had concentrations exceeding 50 times the method detection limit (MDL) and was qualified estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. The native concentration of several target analytes in the sample, outside control limits, was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the non-compliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP27-8	Magnesium Sodium Zinc Calcium	2,890 J 1,350 J 7.0 J 157,000 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP25-8	Magnesium Zinc Calcium	3,520 J 11.3 J 171,000 J
SS18-DP32-12	Lead Magnesium Sodium Zinc Calcium	2.8 J 5,120 J 1,370 J 12.7 J 116,000 J

* Results are in milligrams per kilogram (mg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on August 17, 2012. Soil sampling and analyses were performed on three soil samples and an associated trip blank from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-DP41-7	Soil	8/17/12	VOC (SW8260B), SVOC (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCB (SW8082A), TAL Metals (SW6010C/7471B)
SS18-DP45-8			
SS18-DP46-8			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

Hexane was detected in the trip blank. This compound was not detected in any sample, therefore no qualification was necessary. No compounds were detected in the method blanks of all analyses.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries were within control limits for all compounds in all analyses.

The TPH-GRO surrogate 4-bromofluorobenzene, associated with sample SS18-BP45-8, was recovered above QC limits reported from the FID (flame ionization detector). The

more accurate PID (photoionization detector) reported this surrogate recovery within control limits. Therefore no qualification of the data was required.

The TPH extractable surrogate o-terphenyl was diluted out of sample SS18-DP45-8. Since this surrogate was recovered within control limits for the LCS and MS quality control analyses; no qualification was required. Additionally, o-terphenyl was recovered above QC limits in the method blank analysis. Since both DRO and ORO were non-detects; no qualification was necessary.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for multiple volatile compounds as well as the MS recoveries for benzoic acid and isophorone and the MSD recovery for 3-nitroaniline were outside control limits. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of aluminum, antimony, cadmium, calcium, iron, lead, magnesium, thallium, zinc, and sodium were outside control limits. The control limits for aluminum, iron, and calcium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for these exceedances and the positively identified metals (with the exception of calcium, aluminum, and iron) were qualified as estimated, “J”.

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The RPD for the laboratory duplicate of arsenic, lead, mercury, and sodium were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of arsenic, mercury, beryllium, calcium, chromium, cobalt, copper, nickel, and potassium were outside control limits. Only calcium had concentrations exceeding 50 times the method detection limit (MDL) and was qualified as estimated, “J”.

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Many metals were recovered outside control limits. The native concentration of numerous target analytes in the sample was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the non-compliant MS recoveries and qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-DP41-7	Lead Magnesium Zinc Calcium	1.2 J 1,780 J 12.6 J 127,000 J
SS18-DP45-8	Lead Magnesium Sodium Zinc Calcium	0.83 J 3,240 J 449 J 8.6 J 203,000 J
SS18-DP46-8	Magnesium Sodium Zinc Calcium	3,370 J 1,560 J 9.6 J 150,000 J

* Results are in milligrams per kilogram (mg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on September 10, 2012. Groundwater sampling and analyses were performed on four water samples and associated trip blanks from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-MW23	Water	9/10/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (SW6010C/7470A), TDS (SM2540C)
SS18-MW14			
SS18-MW25			
SS18-MW24			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List, TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks. TDS was recovered in the method blank above the method detection limit. All TDS sample concentrations were well above 5 times the blank concentration. Therefore, the blank concentration did not adversely affect the samples and no qualification was necessary.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries and surrogate recoveries were within control limits for all compounds in all analyses.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The relative percent difference (RPD) for 1,2,3-trichloropropane; carbon tetrachloride; 2-chloroethyl vinyl ether; and acetone along with the MS/MSD recoveries of 2-chloroethyl vinyl ether, benzoic acid, TPH-ORO, and 4-nitrophenol were outside control limits. All QC samples were from another batch/lot. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. Therefore using professional judgment no qualification was necessary.

The (total and dissolved) MS and/or MSD recoveries of arsenic, calcium, magnesium, potassium, selenium, silver, and sodium were outside control limits. The control limits for calcium, magnesium, and sodium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for the exceedances of arsenic, potassium, selenium, and silver and the positively identified metals were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The (total and dissolved) RPD for the laboratory duplicate of lead, selenium, and thallium were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference (both total and dissolved) of aluminum, antimony, arsenic, chromium, copper, iron, nickel, selenium, thallium, mercury, and zinc were outside control limits. Sample SS18-MW25 yielded a nickel concentration exceeding 50 times the method detection limit (MDL) and was qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Calcium, magnesium, selenium, and sodium were recovered outside control limits. The native concentration of calcium, magnesium, and sodium in the sample was high relative to the spiking concentration and may suggest the PDS recovery was not representative of the actual method performance. Matrix interference was based upon the non-compliant MS recoveries and selenium was qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW23	Arsenic Potassium Selenium	4.9 J (total)/4.6 J (dissolved) 34,600 J (total)/37,200 J (dissolved) 6.3 J (total)/10.9 J (dissolved)
SS18-MW24	Arsenic Potassium	5.2 J (total)/3.6 J (dissolved) 7,010 J (total)/6,230 J (dissolved)
SS18-MW25	Arsenic Potassium Nickel	16.4 J (total)/18.7 J (dissolved) 17,100 J (total)/16,300 J (dissolved) 148 J (total)/142 J (dissolved)
SS18-MW14	Arsenic Potassium Selenium	7.2 J (total)/6.1 J (dissolved) 7,200 J (total)/7,490 J (dissolved) 4.2 J (total)

* Results are in micrograms per liter (µg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on September 10 & 11, 2012. Groundwater sampling and analyses were performed on seven water samples and associated trip blanks from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Sample #	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-MW07	1	Water	9/10/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (200.7/245.1), TDS (SM2540C)
SS18-MW15	3			
SS18-MW08	5			
SS18-MW12	7		9/11/12	
SS18-MW09	9			
SS18-MW10	11			
SS18-MW11	13			

Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List, TDS – Total Dissolved Solids

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exceptions. The trip blank associated with sample SS18-MW15 was not preserved to a pH<2. Since no compounds were detected in this blank, using professional judgment no qualification of the sample data was necessary. Additionally, the matrix spike analysis, of a sample from another batch, associated with samples 1, 3, and 5 was not preserved sufficiently. No compounds were outside spike recovery limits. Using professional judgment the samples were not adversely affected and did not required qualification.

Blanks

No compounds were detected in the trip blanks.

1,2,3-Trichlorobenzene was recovered in two of the three method blanks above the method detection limit. This compound was not detected in any associated sample. Therefore, no qualification was necessary.

TDS was detected in the method blank. The sample concentrations were well above 5 times the blank concentration and meant this blank detection had no adverse effect on the samples. Therefore, no qualification was necessary.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The LCS recoveries for acetone and benzoic acid were above control limits. These compounds were not detected in any associated sample and required no qualification.

The matrix spike surrogate recovery of phenol-d5 was above QC limits. No qualification was necessary since two surrogates must be outside control limits to qualify semi-volatile acid or base fractions.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and/or MSD for chloroform; chlorobenzene; p-chlorotoluene; 2-chloroethyl vinyl ether; benzoic acid; 4-nitrophenol; 4-chloroaniline; 3,3'-dichlorobenzidine; and cis-1,3-dichloropropene along with the relative percent difference (RPD) for cis-1,3-dichloropropene; 3,3'-dichlorobenzidine; and styrene were outside control limits. All QC samples were from another batch/lot. Precision and accuracy were determined by the associated LCS recoveries; which were all in control. The exception was benzoic acid which is considered a poor performer. Both the LCS and MS recoveries for benzoic acid were above QC limits and not detected in any associated sample. Therefore using professional judgment no qualification of any sample was necessary. In addition, the MS/MSD recoveries for TPH-ORO were above control limits. Again precision and accuracy were cross referenced with the LCS recovery, which was in control. As a result, no qualification was necessary.

The (total and dissolved) MS and/or MSD recoveries of calcium, selenium, and sodium were outside control limits. The control limits for calcium and sodium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Possible matrix interference was the basis for the exceedances of selenium and the positively identified metal was qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

One field duplicate sample (SS18-MW08-A) was submitted as part of this sampling event and reported in lab package F96812. The RPD between the samples for tetrachloroethylene, trichloroethylene, total aluminum, and total selenium were above project defined control limits. These compounds were qualified as estimated, "J", in both samples.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The RPD for the laboratory duplicate of dissolved arsenic, dissolved selenium, dissolved zinc, total antimony, and total chromium were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of total and dissolved aluminum, total and dissolved antimony, total and dissolved arsenic, total chromium, dissolved selenium, dissolved vanadium, and dissolved zinc were outside control limits. Samples SS18-MW15, SS18-MW08, SS18-MW12, SS18-MW09, SS18-MW10 and SS18-MW11 yielded dissolved vanadium concentrations exceeding 50 times the method detection limit (MDL) and were qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Using professional judgment, matrix interference was based upon the noncompliant MS recoveries and selenium was qualified accordingly.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW07	Selenium (dissolved)	2.4 J
SS18-MW15	Selenium (total/dissolved) Vanadium (dissolved)	8.7 J/5.4 J 68.9 J
SS18-MW08	Tetrachloroethylene Trichloroethylene Aluminum Selenium (total/dissolved) Vanadium (dissolved)	28.2 J 6.5 J 75.5 J 7.6 J/7.8 J 70.6 J
SS18-MW12	Selenium (dissolved) Vanadium (dissolved)	4.7 J 89.4 J
SS18-MW09	Selenium (total/dissolved) Vanadium (dissolved)	8.1 J/8.0 J 76.3 J
SS18-MW10	Selenium (total/dissolved) Vanadium (dissolved)	5.7 J/4.8 J 99.5 J
SS18-MW11	Selenium (total/dissolved) Vanadium (dissolved)	5.1 J/3.2 J 78.7 J

* Results are in µg/L

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on September 10-12, 2012. Groundwater sampling and analyses were performed on seven water samples and associated trip blanks from the supplemental ACM investigation of site SS-18 as well as four samples taken from site S51 to delineate the plume. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Sample #	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-MW27	1	Water	9/11/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (SW6010C/7470A), TDS (SM2540C)
SS18-MW22	3			
SS18-MW22-A	5			
SS18-MW08-A	7		9/10/12	
SS18-MW26	9		9/11/12	
S51-MW1	11		9/12/12	
SS18-MW17	13			
S51-MW7	15			
SS18-MW05	17			
S51-MW5	19			
S51-MW4	21			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List, TDS – Total Dissolved Solids				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception. Sample SS18-MW05 was re-run at dilution outside of the requisite hold time. Only compound 1,1-dichloroethane was reported from the second run and was qualified as estimated, "J".

Blanks

No compounds were detected in the trip blanks.

1,2,3-Trichlorobenzene was recovered in the method blanks, associated with samples 1-15, above the method detection limit. Sample SS18-MW22-A yielded a positive detection and was qualified as estimated, "J".

TDS was detected in the method blank. Since all sample concentrations were well above 5 times the blank concentration no qualification was required.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The semi-volatile LCS recovery for benzoic acid was above QC limits. This compound was not detected in any sample and required no qualification.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The volatile MS/MSD recoveries and/or relative percent difference (RPD) for multiple compounds were outside control limits associated with sample SS18-MW08-A as well as recoveries of 2-chloroethyl vinyl ether associated with all remaining samples. Precision and accuracy were cross referenced with the associated LCS recoveries, which were in control. Therefore, no qualification of the sample data was required.

The semi-volatile MS/MSD recoveries and/or RPDs for benzoic acid; 4-nitrophenol; benzidine; 3,3'-dichlorobenzidine; and isophorone were outside control limits. Again precision and accuracy were cross referenced with the LCS recoveries. Benzoic acid yielded both MS and LCS recoveries above control limits. The sample results were also considered for qualification purposes. Since the associated samples yielded no positive concentrations using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of total and dissolved calcium, total and dissolved sodium, total magnesium, and total and dissolved selenium were outside control limits. The control limits for calcium, magnesium, and sodium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Selenium was affected by matrix interference and any positive results were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

Two field duplicate samples (SS18-MW08-A and SS18-MW22-A) were submitted as part of this sampling event. The RPD for tetrachloroethylene, trichloroethylene, total aluminum, and total selenium was above project defined control limits for sample SS18-MW08-A (the parent sample was reported in lab package F96768). The RPD for total aluminum was outside project defined control limits for sample SS18-MW22 and its duplicate. These compounds were qualified as estimated, "J".

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The relative percent difference (RPD) for the laboratory duplicate of total thallium, dissolved antimony, dissolved beryllium, dissolved copper, and dissolved zinc were

outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of total aluminum, total and dissolved antimony, dissolved arsenic, dissolved beryllium, dissolved cadmium, dissolved copper, total and dissolved nickel, dissolved thallium, and total and dissolved zinc were outside control limits. No samples yielded a concentration exceeding 50 times the method detection limit (MDL). Therefore, no qualification was necessary.

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Only selenium had exceedance sin both the PDS and MS recoveries that warranted qualification.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW22	Selenium (total/dissolved) Aluminum (total)	3.1 J/7.2 J 76.2 J
SS18-MW22-A	1,2,3-Trichlorobenzene Selenium (total/dissolved) Aluminum (total)	0.50 J 3.1 J/8.4 J 49.9 J
SS18-MW08-A	Tetrachloroethylene Trichloroethylene Aluminum (total) Selenium (total/dissolved)	16.3 J 3.7 J 42.1 J 3.4 J/10.5 J
SS18-MW17	Selenium (total/dissolved)	2.5 J/6.2 J
SS18-MW05	1,1-Dichloroethane	170 J
S51-MW4	Selenium (dissolved)	3.9 J

* Results are in micrograms per liter (µg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on September 12 & 13, 2012. Groundwater sampling and analyses were performed on eight water samples and associated trip blanks from the supplemental ACM investigation of site SS-18 as well as a sample and duplicate taken from site S51 to delineate the plume. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Sample #	Matrix	Collection Date	Analyses (USEPA Method Number)
S51-MW3	1	Water	9/12/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (200.7/245.1), TDS (SM2540C)
S51-MW3-A	3			
SS18-MW29	5			
SS18-MW06	7			
SS18-MW13	9			VOCs (SW8260B), TPH-GRO (SW8015C), TAL Metals Total + Dissolved (200.7/245.1), TDS (SM2540C)
SS18-MW16	10		9/13/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (200.7/245.1), TDS (SM2540C)
SS18-MW02	12			
SS18-MW30	14			
SS18-MW30-A	16			
SS18-MW28	18			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOC – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, PCB – Polychlorinated Biphenyls, TAL – Target Analyte List, TDS – Total Dissolved Solids				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

1,2,3-Trichlorobenzene was recovered in the method blanks, associated with samples 1, 3, 5, 7, and 9, above the method detection limit. This compound was not detected in any associated sample. Therefore, no qualification was necessary.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The volatile LCS recoveries for acetone, chlorobenzene, o-dichlorobenzene, and vinyl acetate were above control limits associated with samples 10, 12, 14, 16, and 18. The compound o-dichlorobenzene was detected in samples SS18-MW30 (#14) and SS18-30-A (#16) and was qualified as estimated, "J".

The semi-volatile LCS recoveries for 4-nitrophenol, 2-nitroaniline, and N-nitrosodimethylamine were above QC limits and isophorone was recovered below QC limits. According to validation guidelines the non-detected isophorone necessitated qualification as estimated non-detected, "UJ".

The semi-volatile method blank surrogate recovery of phenol-d5 was above QC limits in some of the batch blank analyses. No qualification was necessary since two surrogates must be outside control limits to qualify semi-volatile acid or base fractions.

The matrix spike analyses of the semi-volatile data yielded 2-fluorophenol and phenol-d5 recoveries above QC limits. No compounds were detected in the sample used for the MS analysis and no qualification was deemed necessary.

The TPH-GRO surrogate recovery of aaa-trifluorotoluene was above QC limits for the matrix spike/duplicate analyses. Since the sample used was from another batch the sample data was not adversely affected and required no qualification.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and/or MSD for chlorobenzene; 2-chloroethyl vinyl ether; cis-1,3-dichloropropene; m-dichlorobenzene; o-dichlorobenzene; p-dichlorobenzene; trans-1,3-dichloropropene; naphthalene; and vinyl acetate were outside control limits. Precision and accuracy were cross referenced with the associated LCS recoveries. Since chlorobenzene, o-dichlorobenzene, and vinyl acetate yielded both MS and LCS recoveries above control limits, the sample results were also considered for qualification purposes. Since the associated samples yielded no positive concentrations, with the exception of o-dichlorobenzene, using professional judgment no qualification of any compound was necessary except for o-dichlorobenzene.

Multiple semi-volatile MS/MSD recoveries and or relative percent differences (RPDs) were outside control limits. Again precision and accuracy were cross referenced with the LCS recoveries. Since 4-nitrophenol, 2-nitroaniline, and N-nitrosodimethylamine yielded both MS and LCS recoveries above control limits. The sample results were also considered for qualification purposes. Since the associated samples yielded no positive concentrations using professional judgment no qualification was necessary.

The MS and/or MSD recoveries of total and dissolved calcium and total and dissolved sodium were outside control limits. The control limits for calcium and sodium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. No qualification was required.

Project Specific Quality Assurance/Quality Control

Two field duplicate samples (S51-MW3-A and SS18-MW30-A) were submitted as part of this sampling event. The RPD for total iron in both sets of duplicates was above project defined control limits as well as for total aluminum in sample SS18-MW30 and its duplicate. These compounds were qualified as estimated, "J".

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The RPD for the laboratory duplicate of the following total metals: aluminum, antimony, beryllium, chromium, lead, manganese, and selenium along with dissolved lead were outside control limits. Due to low duplicate and/or sample concentrations the RPDs were deemed acceptable.

The serial dilution percent difference of total and dissolved antimony, total and dissolved arsenic, total and dissolved barium, total beryllium, total and dissolved lead, total and dissolved potassium, and dissolved sodium were outside control limits. Samples S51-MW3, S51-MW3-A, SS18-MW16, SS18-MW30, and SS18-MW30-A yielded total and dissolved potassium concentrations exceeding 50 times the method detection limit (MDL) and were qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Due to the fact that the native concentrations of sodium and calcium were high in the sample relative to the PDS spiking concentration no qualification was deemed necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
S51-MW3	Isophorone Potassium (total/dissolved) Iron (total)	UJ 32,100 J/31,200 J 103 J
S51-MW3-A	Isophorone Potassium (total/dissolved) Iron (total)	UJ 32,500 J/32,900 J 69.6 J
SS18-MW29	Isophorone	UJ
SS18-MW06	Isophorone	UJ
SS18-MW16	Isophorone Potassium (total/dissolved)	UJ 28,200 J/25,400 J
SS18-MW02	Isophorone	UJ

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW30	o-Dichlorobenzene Isophorone Potassium (total/dissolved) Iron (total) Aluminum (total)	0.36 J UJ 33,000 J/36,300 J 465 J 610 J
SS18-MW30-A	o-Dichlorobenzene Isophorone Potassium (total/dissolved) Iron (total) Aluminum (total)	0.30 J UJ 34,600 J/35,000 J 128 J 162 J
SS18-MW28	Isophorone	UJ

* Results are in micrograms per liter (µg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on September 13, 14, 17 and October 1, 2012. Groundwater sampling and analyses were performed on seven water samples and associated trip blanks from the supplemental ACM investigation of site SS-18. All analyses were performed by Accutest Laboratories, Inc., in Orlando, Florida. The specific samples included in this validation were:

Sample ID	Sample #	Lab Package	Matrix	Collection Date	Analyses (USEPA Method Number)
SS18-MW18	1	F96955	Water	9/13/12	VOCs (SW8260B), SVOCs (SW8270D), TPH-GRO/DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Total + Dissolved (SW6010C/7470A), TDS (SM2540C)
SS18-MW21	3				
SS18-MW03	5			9/14/12	
SS18-MW19	7, 8			9/13/12-9/14/12	
SS18-MW04	10			9/14/12	VOCs (SW8260B), TPH-GRO (SW8015C), TAL Metals Total (SW6010C/7470A), TDS (SM2540C)
SS18-MW04	10A	F97042		9/17/12	SVOCs (SW8270D), TPH-DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Dissolved (SW6010C/7470A)
SS18-MW20	11	F96955		9/14/12	VOCs (SW8260B), TPH-GRO (SW8015C), TAL Metals Total (SW6010C/7470A), TDS (SM2540C)
SS18-MW20	11A	F97042		9/17/12	TPH-DRO/ORO (SW8015C), PCBs (SW8082A), TAL Metals Dissolved (SW6010C/7470A)
SS18-MW20	11B	F97531		10/1/12	SVOCs (SW8270D)
SS18-MW13	12	F96955		9/14/12	SVOCs (SW8270D), TPH-DRO/ORO (SW8015C), PCBs (SW8082A)

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

The samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

1,2,3-Trichlorobenzene was recovered in the method blanks, associated with samples SS18-MW04 and SS18-MW20, above the method detection limit. This compound was not detected in either sample and required no qualification.

TDS was detected in the method blank. Since all sample concentrations were well above 5 times the blank concentration no qualification was required.

Blank Spike Sample (Laboratory Control Sample-LCS)/ Surrogates

The semi-volatile LCS recovery for isophorone was below QC limits associated with all samples except SS18-MW04 and SS18-MW20. This compound was not detected but warranted a qualification of estimated, "UJ".

The LCS recovery of benzidine, associated with SS18-MW04 and SS18-MW20, was reported above QC limits as well as benzoic acid in sample SS18-MW20. These compounds were not detected in the samples and required no qualification.

The TPH-GRO surrogate recovery of aaa-trifluorotoluene was above QC limits for the matrix spike/duplicate analyses. Since the sample used was from another batch the sample data was not adversely affected and required no qualification.

The semi-volatile surrogate phenol-d5 was recovered above QC limits in sample SS18-MW04. Since only one semi-volatile surrogate was outside control limits no qualification was deemed necessary. Additionally, two surrogates (2-fluorophenol and phenol-d5) were recovered above control limits for the matrix spike analyses of the aforementioned sample. The sample used was from another lot and using professional judgment the data was not compromised and needed no qualification. Finally, the matrix spike analysis of SS18-MW20 resulted in the recovery of phenol-d5 above QC limits. Again only one semi-volatile surrogate was outside control limits and no qualification was deemed necessary.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The volatile MS/MSD recoveries for 2-chloroethyl vinyl ether (associated with all samples); cis-1,2-dichloroethylene (associated with samples 1, 3, and 5); and carbon disulfide; cis-1,2-dichloropropene; trans-1,3-dichloropropene; styrene; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; and m,p-xylene (associated with samples 10 and 11) were outside control limits. Precision and accuracy were cross referenced with the associated LCS recoveries, which were in control. Therefore, no qualification of the sample data was required.

The semi-volatile MS/MSD recoveries for isophorone and the relative percent difference (RPD) for benzidine were outside control limits associated with all samples except SS18-MW04 and SS18-MW20. Again precision and accuracy were cross referenced with the LCS recoveries. Isophorone yielded both MS and LCS recoveries outside control limits

and was qualified accordingly. Benzidine required no qualification. For sample SS18-MW04 multiple compounds reported the batched MS/MSD recoveries outside control limits. The associated LCS recoveries were within control and no qualification was required. Sample SS18-MW20 did not report any MS/MSD recoveries outside control limits.

The total and/or dissolved MS and/or MSD recoveries of calcium, sodium, potassium and magnesium were outside control limits. The control limits for calcium, magnesium, and sodium were not applicable since the sample concentration exceeded the spiked concentration by a factor of four or more. Potassium was possibly affected by matrix interference and those positive results were qualified as estimated, "J".

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling group.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment Of Data

The RPD for the laboratory duplicate of total and dissolved beryllium and total and dissolved thallium were outside control limits associated with all samples except SS18-MW04 and SS18-MW20. Due to low duplicate and/or sample concentrations, the RPDs were deemed acceptable. Vanadium yielded an RPD above control limits for the two samples mentioned above but also due to low duplicate and/or sample concentrations the RPD was deemed acceptable.

The (total and dissolved) serial dilution percent difference (%D) of arsenic, beryllium, cobalt, copper, nickel, and thallium were outside control limits. Sample SS18-MW19 yielded concentrations of total and dissolved nickel along with a concentration of total copper in sample SS18-MW04 exceeding 50 times the method detection limit (MDL) and were qualified as estimated, "J". The dissolved serial dilution %D associated with samples SS18-MW04 and SS18-MW20 yielded total chromium, sodium, and vanadium outside control limits. Sodium concentrations were greater than 50 times the MDL and were qualified as estimated, "J".

A post digestate spike (PDS) was run on the same field sample as the matrix spike analyses to assess the ability of the method to successfully recover target metals from the matrix after the digestion process. The PDS results were used in conjunction with the MS results to evaluate matrix interferences. Only potassium had exceedance in both the PDS and MS recoveries that warranted qualification.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW18	Isophorone Potassium (total/dissolved)	UJ 27,000 J/26,300 J
SS18-MW21	Isophorone Potassium (total/dissolved)	UJ 14,200 J/14,400 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
SS18-MW03	Isophorone Potassium (total/dissolved)	UJ 35,600 J/34,100 J
SS18-MW19	Isophorone Potassium (total/dissolved) Nickel (total/dissolved)	UJ 21,600 J/24,900 J 49.4 J/66.8 J
SS18-MW04	Potassium (total) Copper (total) Sodium (dissolved)	15,000 J 177 J 1,660,000 J
SS18-MW20	Potassium (total) Sodium (dissolved)	17,100 J 3,750,000 J
SS18-MW13	Isophorone	UJ

* Results are in micrograms per liter (µg/L)